



CITY OF GARDEN GROVE
FIRE DEPARTMENT

Tel: (714) 741-5600
Fax: (714) 741-5640

1/20/2017

Lee Comer
Acer Environmental
(818) 839-2237

RE: Records Search for 7390 Hunt Ave., & 7421 Chapman Ave., Garden Grove CA

Dear Lee Comer:

Enclosed are the records found concerning the history of the above-mentioned site(s), especially as it pertains to fire code violation history, permits, the use, storage, or disposal of hazardous substances, and the installation or removal of underground flammable or combustible liquid storage tanks.

The City of Garden Grove Fire Department has utilized its best efforts to locate the records requested. However, the City makes no representation as to the accuracy of the records or that all records requested were retained or located. The City does not provide records on spills, leaks or clean-up, as that information is provided through the County of Orange Health Dept.

Sincerely,

Thanh Nguyen
Fire Captain/Senior Fire Protection Specialist

**Violation List for
AARON THOMAS COMPANY INC
7390 HUNT Ave**

Date Issued	Date Cleared	Code #	Violation Description
04/08/2016	07/05/2016	5705.3.2	2nd floor - 55 gal of Acetone in approved metal cabinet but needs to
04/08/2016	04/08/2016	2403.2.2	Seperate welding kit by a minimum of 20' feet from flammable liquid
04/08/2016	07/05/2016	CFC 605.3.1	Provide signs for electrical rooms - shopman breakroom, chapman s
04/08/2016	07/05/2016	CFC 10	Provide a paper exit sign for room 6 exit and repair the door handle
04/08/2016	07/05/2016	CFC 904	Provide protective cages for sprinkler heads that are prone to dama
04/08/2016	07/05/2016		Secure gas line/valve near shop break room and repair the crash po
04/08/2016	07/05/2016	CFC 6	Provide over-hang caution signs below upstairs loading/storage area
04/08/2016	07/05/2016		On upstairs loading areas - provide bright colored chains and place
04/08/2016	07/05/2016	CFC 1009	M2 & M4 - upstairs fencing/handhails needs to be repaired.
04/08/2016	07/05/2016	CFC 904	M3 Upstairs, remove air compressor hose from sprinkler's branch lir
04/08/2016	07/05/2016	CFC 904	FDC off of Chapman is missing a swivel. Needs to obtain new swive
04/08/2016	07/05/2016	CFC 904	North West PIVs, two PIVs currently have a sign Not In Service and
04/08/2016	07/05/2016	CFC 904	North West PIVs, replace missing break-away locks
04/08/2016	07/05/2016	CFC 503.4	Remove obstructions to fire apparatus access
04/08/2016	07/05/2016	CFC 1028.3	Remove exit obstruction
04/08/2016	07/05/2016	CFC 605.1	Provide/ replace electrical
04/08/2016	07/05/2016	CFC 506.1	Provide outside Knox Box
04/08/2016	07/05/2016	CFC 1011.2	Provide illuminated exit sign(s).
04/08/2016	07/05/2016	CFC 505.1	Provide address visible from the street
04/08/2016	07/05/2016	CFC 315.2.1	Lower storage
04/08/2016	07/05/2016	CFC 605.3	Keep 30" clear in front of elec. panel
04/08/2016	07/05/2016	Title 19 Sec.	Hang extinguisher(s) 3.5'-5' from floor
04/08/2016	07/05/2016	CFC 605.6	Discontinue use of extension cords.
04/08/2016	07/05/2016	Title 19, Sec.	5 yr. certification on sprinkler / standpipe system.
04/28/2014	05/12/2014	CFC 605.6	Discontinue use of extension cords.
04/28/2014	05/12/2014	CFC 1011.2	Provide illuminated exit sign(s).
04/28/2014	05/12/2014	CFC 901.6	Service and tag Fire Extinguishers.
04/28/2014	05/12/2014	CFC 605.1	Provide/ replace electrical
04/28/2014	05/12/2014	Title 19 Sec.	Hang extinguisher(s) 3.5'-5' from floor
04/28/2014	05/12/2014	CFC 906.1	Provide extinguisher(s)
04/28/2014	05/12/2014	CFC 505.1	Provide address visible from the street
03/15/2012	04/11/2012	CFC 1006.1	Provide and maintain approved emergency lighting.

**Violation List for
AARON THOMAS COMPANY INC
7390 HUNT Ave**

Date Issued	Date Cleared	Code #	Violation Description
03/15/2012	04/11/2012	Title 19 Sec.	Hang extinguisher(s) 3.5'-5' from floor
05/01/2011	05/24/2011	CFC 315.2.1	Lower storage
03/01/2011	05/24/2011		Needs 2 wks for 5 yr. cert on sprinkler system - will fax in when com
03/01/2011	05/24/2011	Title 19, Sec.	5 yr. certification on sprinkler / standpipe system.
03/01/2011	05/24/2011	CFC 901.6	Service and tag Fire Extinguishers.
03/01/2010	03/24/2010	CFC 605.6	Discontinue use of extension cords.
03/01/2010	03/24/2010		Cover ceiling panels in filling room and back office , upstairs front of
01/20/2009	04/20/2009		55 gal drum needs containment - liquid filling and nail polish room
01/20/2009	04/20/2009		Exit door in S warehoues breakroom needs repair.
01/20/2009	04/20/2009	CFC 901.6	Service and tag Fire Extinguishers.
01/20/2009	04/20/2009	CFC 1006.1	Provide and maintain approved emergency lighting.
01/20/2009	04/20/2009	CFC 1011.2	Provide illuminated exit sign(s).
01/20/2009	04/20/2009	CFC 1008.1.1	Remove locks, chains, bolts or bars from exit door.
10/06/2008	10/06/2008	HSC 25509	Chemical inventory is incomplete / requires update.
02/04/2008	02/25/2008		Repair exit door office next to breakroom.
02/12/2007	02/26/2007		patch electrical hole in wall in office next to breakroom S/E. Liquid fil
02/12/2007	02/26/2007	CFC 1005.2.1	Service auto-extinguishing system semi-annually.
02/12/2007	02/26/2007	CFC 1212.4	Provide illuminated exit sign(s).- front door S/W, S/E
02/07/2006	08/07/2006		Center east fire curtain broken.
02/07/2006	08/07/2006		Cover over 55 gal storage in back (next to propane tank)
02/07/2006	08/07/2006		Replace ceiling panels.
02/07/2006	08/07/2006		4 hr. door removed from hallway.
02/07/2006	08/07/2006		Clean out electrical room.
02/07/2006	08/07/2006		Remove bolt SE exit door.
02/07/2006	08/07/2006		2nd floor - 2nd stairway emergency lights not working.
02/07/2006	08/07/2006		NW door needs sign stating "Remain open during business hours".
02/07/2006	08/07/2006		Front door exit sign bulb out.
02/07/2006	08/07/2006		Check all door hardware - not closing properly.
02/07/2006	08/07/2006	7902.5.9	Provide approved cabinet if more than 10 gal flam. liquids.- repair dc
02/07/2006	08/07/2006	Title 19, Sec.	5 yr. certification on sprinkler / standpipe system.
02/07/2006	08/07/2006	Title 19 Sec.	Hang extinguisher(s) 3.5'-5' from floor
02/07/2006	08/07/2006	CFC 1001.5.	Service and tag Fire Extinguishers.

**Violation List for
AARON THOMAS COMPANY INC
7390 HUNT Ave**

Date Issued	Date Cleared	Code #	Violation Description
02/07/2006	08/07/2006		Propane gas storage racks.
02/07/2006	08/07/2006		36" clearance around hydrant.
02/07/2006	08/07/2006		Standpipe upper floor- caulking needed to seal opening. PIV-riser #
02/07/2006	08/07/2006		Second floor Mezz. clear boxes from electrical panels.
03/17/2003	01/27/2004	1001.5.1	remove or repair aluminum sheeting on ceiling
03/17/2003	01/27/2004	7801	always use face shield & gloves when filling propane tanks - post sig

Inspection # :010594 1.Insp_Date:03-09-01
2. Permit # :010166
3. Address :7390 HUNT AVE
4. Business Name/DBA :AARON THOMAS COMPANY, INC
5. Address Info :HAZ MAT DISCLOSURE ON FILE 6.Buslic :127355
7. Business Owner :THOMAS M BACON
8. Business Address :6771 CORRAL CIRCLE 10.Bus Phone894-4468
9. Business CityStZip:HUNTINGTON BEACH, CA 92647 11.EmerPhone847-3249

12.Occ Group :F1 16.5yr Cert. :4/28/00 20.MBCC :Y
13.Occ Load : 17.FDC loc :CHAPMAN/DAIWA C 21.Clear date :03-23-01
14.No of Ext :24.24 18.Haz Mat'l :Y 22.InspectorId:1705
15.Sprinklers:Y 19.ReInsp date:03-23-01 COLLINS, PATRICK S

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Violation Code Violation description
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- 1 EXIT LIGHTS - REPLACE BULBS
- 2 36" CLEARANCE AROUND SPRINKLER RISER
- 3 MAINTAIN 18" DISTANCE FROM SPRINKLER HEADS

Inspection # :020583 1.Insp_Date:03-07-02
2. Permit # :020163
3. Address :7390 HUNT AVE
4. Business Name/DBA :AARON THOMAS COMPANY, INC
5. Address Info :HAZ MAT DISCLOSURE ON FILE 6.Buslic :127355
7. Business Owner :THOMAS M BACON
8. Business Address :6771 CORRAL CIRCLE 10.Bus Phone894-4468
9. Business CityStZip:HUNTINGTON BEACH, CA 92647 11.EmerPhone847-3249

12.Occ Group :F1 16.5yr Cert. :4/28/00 20.MBCC :Y

13.Occ Load : 17.FDC loc :CHAPMAN/DAIWA C 21.Clear date :03-18-02

14.No of Ext :24.24 18.Haz Mat'l :Y 22.InspectorId:2512

15.Sprinklers:Y 19.ReInsp date: WAIDELICH, SUSAN C

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Violation Code Violation description

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- 1 UFC 8506.1 EXTENSION CORDS ARE PROHIBITED AND MAY NOT BE USED
- 2 IN PLACE OF FIXED WIRING.
- 3 7406 SECURE COMPRESSED GAS CYLINDERS
- 4 1002.1 MOUNT FIRE EXTINGUISHERS #4 & 15
- 5 1203 MAINTAIN AISLE WIDTH FOR EXITING
- 6 901 CLEAR VINES FROM GROWING ON THE ON-SITE HYDRANT

Inspection # :950749 1.Insp_Date:02-15-95

2. Permit # :

3. Address :7390 HUNT AVE

4. Business Name/DBA :AARON THOMAS COMPANY, INC

5. Address Info : 6.Buslic :127355

7. Business Owner :THOMAS M BACON

8. Business Address :6771 CORRAL CIRCLE 10.Bus Phone894-4468

9. Business CityStZip:HUNTINGTON BEACH, CA 92647 11.EmerPhone847-3249

12.Occ Group :B2 16.5yr Cert. :1-19-90 20.MBCC :N

13.Occ Load : 17.FDC loc :CHAPMAN/DAIWA C 21.Clear date :02-15-95

14.No of Ext :24.24 18.Haz Mat'l :Y 22.InspectorId:0258

15.Sprinklers:Y 19.ReInsp date: ASHBY, DOUGLAS E

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Violation Code Violation description

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- 1 NOTE EXTENSION CORDS REFERED TO BUILDING DEPT.



Hazardous Material Disclosure

Business Information / Chemical Inventory / Business Emergency Plan



GARDEN GROVE FIRE DEPARTMENT
11301 Acacia parkway
Garden Grove, CA 92840
Bus. (714) 741-5600 Fax (714) 741-5640
Hazardous Materials Coordinator
(714) 741-5636

Address: 7421 CHAPMAN AVE GARDEN GROVE Date: 5/20/09
 Occupant or DBA: ARON THOMAS COMPANY INC File No: _____
 Owner/Manager: DAN VACCARELLA Phone: (909) 394-4776

California Health and Safety Code, Section 6.95, you are required to properly complete the Business Emergency Plan (BMP) packet. You are required to return the BEP packet, Hazardous Materials Disclosure Forms, and all material safety data sheets within fifteen (15) days to the Garden Grove Fire Department. HazMat Coord. (714) 741-5636

An inspection at the above location/occupancy revealed the following violation(s):

Violation(s): CA Health and Safety Code Chapter 6.95, Article 1 and Title 19, §2729 et seq., California Code of Regulations (CCR)

- Complete Hazardous Materials Disclosure packet, HSC Chapter 6.95, Title 19 Div 2 Chapter 3, CFC 8001.3.2
- Failure to submit a Business Emergency Plan. [HSC 25505(a)(1)]; CFC 8001.3.2
- Failure to review and/or revise the Business Emergency Plan as required [HSC 25505(b)&(c)]
- Chemical inventory is incomplete and/or requires update. [HSC 25509]
- The Emergency Response Plan is inadequate and/or does not address the following issues and shall be immediately revised and resubmitted: [HSC 25504(b)&(c)]
 - Notification Procedures
 - Mitigation Procedures
 - Evacuation Procedures
 - Employee Training
- Business Owner/Operator page is incomplete or needs to be updated. [HSC 25509]
- Failure to provide name, title, and 24-hour number of emergency contact(s). [HSC 25509(a)(7)]
- Site Map is incomplete or insufficient. [HSC 25509]
- Failure to report a release or threatened release. [HSC 25507]
- Failure to report a change in business or chemical inventory within 30 days of the following event(s): [HSC 25510]
 - 100% or more increase in the quantity of a disclosed material
 - Addition of a previously undisclosed material
 - Change in business address
 - Change in business ownership
 - Change of business name
 - Other (See comments below):

Violation(s): California Fire Code 2001, Articles 79 & 80, Title 19 Part 9, California Code of Regulations (CCR)

- Provide for secondary containment for hazardous materials liquids and solids (CFC 8003.1.3.3)
- Provide spill control for hazardous materials liquids (CFC 8003.1.3.2)
- Provide approved cabinet if more than 10 gallons of flammable liquids (CFC 7902.5)
- Provide placarding and signs (NFPA 704, CFC Article 79 §7901.9, Article 80 §8001.7-8) PLACARDED FOR CHAPMAN SIDE OF BUILDING
- No Violations Found

Additional Violations and/or Notes: _____

Responsible Party: Dan Vaccarella Re-inspection Date: 6/3/09 EXT 6/10/09

The above are violations of California law and require immediate correction. Failure to correct violations is subject to civil penalties.

Fire Dept. Inspector: B. Howland ID #: 6520

Condition Upon Re-inspection: _____ Date: _____

GARDEN GROVE



FIRE DEPARTMENT

HAZARDOUS MATERIALS DISCLOSURE PROGRAM

REPORTING FORMS PACKET

SHORT VERSION

FOR OFFICIAL USE ONLY	
FACILITY ID NO.	<u>46</u>
BUSINESS NAME	<u>Caron Thomas Company</u>
BUSINESS ADDRESS	<u>7421 Chapman Ave</u>
APPROVED BY	<u>G</u> DATE <u>11/2011</u>
NEW BUSINESS	<input type="checkbox"/> YES <input type="checkbox"/> NO UPDATE _____
PICK	<input type="checkbox"/> 4D <input type="checkbox"/> BUSLIST <input type="checkbox"/> CALARP: <input type="checkbox"/> CUPA: <input type="checkbox"/> GIS <input type="checkbox"/>
FEE	_____



CITY OF GARDEN GROVE FIRE DEPARTMENT

11301 Acacia Parkway, Garden Grove, CA 92842 (714) 741-5600 (714) 741-5636

FORM 1

Hazardous Materials Business Information Form

Page of 3

BUSINESS INFORMATION

EAGLE ID (Supplied by CCFD)		3	0	0	3	5	BEGINNING DATE		1	ENDING DATE		2				
BUSINESS NAME										4	BUSINESS PHONE		5			
BUSINESS SITE ADDRESS													6			
CITY							7	STATE		8	ZIP		9			
DUN & BRADSTREET										10	SIC CODE (4 DIGIT #)		11	FIRE DISTRICT		12
COUNTY													13			
BUSINESS OPERATOR NAME										14	OPERATOR'S PHONE		15			

BUSINESS OWNER

OWNER NAME										16	OWNER PHONE		17
OWNER MAILING ADDRESS													18
CITY							19	STATE		20	ZIP		21

ENVIRONMENTAL CONTACT

CONTACT NAME										22	CONTACT PHONE		23
CONTACT MAILING ADDRESS													24
CITY							25	STATE		26	ZIP		27

EMERGENCY CONTACTS

PRIMARY		EMERGENCY CONTACTS		SECONDARY	
NAME	28	NAME	33	NAME	33
TITLE	29	TITLE	34	TITLE	34
BUSINESS PHONE	30	BUSINESS PHONE	35	BUSINESS PHONE	35
24-HR. PHONE	31	24-HR. PHONE	36	24-HR. PHONE	36
PAGER #	32	PAGER #	37	PAGER #	37

ADDITIONAL LOCALLY COLLECTED INFORMATION

DESCRIBE THE TYPE OF BUSINESS OPERATION:										38	TOTAL # OF EMPLOYEES		39	
BILLING ADDRESS (IF DIFFERENT FROM ABOVE)										40	ATTENTION		41	
PROPERTY OWNER NAME					42	ADDRESS					43	PHONE		44
Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.														
SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE										45	DATE		46	
NAME OF SIGNER (print)					47	NAME OF DOCUMENT PREPARER (print)					49			
TITLE OF SIGNER					48	TITLE OF DOCUMENT PREPARER					50			



CITY OF GARDEN GROVE
11301 ACACIA PARKWAY
GARDEN GROVE, CALIFORNIA 92842
(714) 741-5636

CUPA

FACILITY INFORMATION

BUSINESS ACTIVITIES

Page 1 of ___

I. FACILITY IDENTIFICATION

FACILITY ID#	3 0 0 3 5	1. EPA ID # (Hazardous Waste Only)	2.
		CAD 981 370 364	

BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As) 3.

AARON THOMAS COMPANY INC.

II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page.

Does your facility...

If Yes, please complete these pages of the UPCF...

A. HAZARDOUS MATERIALS

Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?

YES NO

4.

HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (Form 3)

B. UNDERGROUND STORAGE TANKS (USTs)

- Own or operate underground storage tanks?
- Intent to upgrade existing or install new USTs?
- Need to report closing a UST?

YES NO

5.

UST FACILITY (Formerly SWRCB Form A)
 UST TANK (one page per tank) (Formerly Form B)

YES NO

6.

UST FACILITY
 UST TANK (one per tank)
 UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C)

YES NO

7.

UST TANK (closure portion-one page per tank)

C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)

Own or operate ASTs above these thresholds:
- any tank capacity is greater than 660 gallons, or
- the total aggregate capacity for the entire facility (ASTs, drums and portable containers) greater than 1,320 gallons?

YES NO

8.

NO FORM REQUIRED TO CUPAS

D. HAZARDOUS WASTE

- Generate hazardous waste?
- Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC §25143.2)?
- Treat hazardous waste on site?
- Treatment subject to financial assurance requirements (for Permit by Rule and Condition Authorization)?
- Consolidate hazardous waste generated at a remove site?
- Need to report the closure/removal of a tank that was classified waste and cleaned onsite?

YES NO

9.

EPA ID NUMBER - provide at the top of this page

YES NO

10.

RECYCLABLE MATERIALS REPORT (one per recycler)

YES NO

11.

ONSITE HAZARDOUS WASTE TREATMENT - FACILITY (Formerly DTSC Forms 1772)
 ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit) (Formerly DTSC Forms 1772A,B,C,D and L)

YES NO

12.

CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232)

YES NO

13.

REMOTE WASTE/CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 1196)

YES NO

14.

HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)

E. LOCAL REQUIREMENTS

Cal-ARP: California Accidental Release Prevention Program
H&SC Chapter 6.95, Article 2, §25531 et seq
— Stationary Source with more than a Threshold Quantity of a Regulated Substance in a Process

YES NO

15.

REGULATED SUBSTANCE REPORTING FORM (Orange County CUPA)



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD DELETE REVISED 1 Page _____ of _____ 2

FACILITY ID#	30035	BUSINESS NAME	AROLD THOMAS COMPANY INC.
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I. FACILITY INFORMATION

CHEMICAL LOCATION	7421 CAAPMAD AVE. GARDEN GROVE CA. 92841		
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input type="checkbox"/> No	MAP #	GRID #
	5	1	I-8

II. CHEMICAL INFORMATION

CHEMICAL NAME	WASTE	TRADE SECRET
EUCALYPTUS OIL	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
COMMON NAME	* If EPCRA see instructions	
ESSENTIAL OIL	An EHS Chemical <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
*If EHS is "Yes", all amounts must be LBS		
CAS #	FIRE CODE HAZARD CLASSES (supplied by GGFD)	
8008-48-4	F I I	
TYPE (Check one item only)	RADIOACTIVE	CURIES
<input checked="" type="checkbox"/> a. PURE <input type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
PHYSICAL STATE (Check one item only)	FED. HAZARD CATEGORIES	
<input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS	<input checked="" type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE	
	<input type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH	
AVERAGE DAILY AMOUNT	MAXIMUM DAILY AMOUNT	ANNUAL WASTE AMOUNT
220 GAL	220 GAL	0
UNITS	DAYS ON SITE	LARGEST CONTAINER
<input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS	15	55 GAL.
*If EHS, amount must be in pounds.		
STORAGE CONTAINER (Check all that apply)		
<input type="checkbox"/> a. ABOVEGROUND TANK <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> c. TANK INSIDE BLDG <input checked="" type="checkbox"/> d. STEEL DRUM	<input type="checkbox"/> e. PLASTIC DRUM <input type="checkbox"/> f. NONMETALLIC DRUM <input type="checkbox"/> g. METAL CONTAINER <input type="checkbox"/> h. CARBOY	<input type="checkbox"/> i. VAT <input type="checkbox"/> j. FIBER DRUM <input type="checkbox"/> k. BAG(S) <input type="checkbox"/> l. BOX(S)
	<input type="checkbox"/> m. CYLINDER <input type="checkbox"/> n. GLASS CONTAINER <input type="checkbox"/> o. PLASTIC CONTAINER <input type="checkbox"/> p. IN MACH OR EQUIP	<input type="checkbox"/> q. TANK WAGON <input type="checkbox"/> r. RAIL CAR <input type="checkbox"/> s. TOTE BIN <input type="checkbox"/> t. OTHER
STORAGE PRESSURE		
<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT		
STORAGE TEMPERATURE		
<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC		

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	29 N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	32
2	29	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	32
3	29	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	32
4	29	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	32
5	29	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	32

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

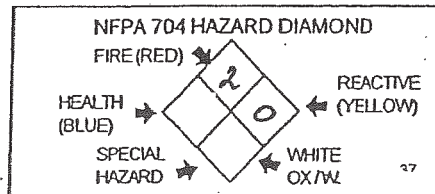
PLACARDING INFORMATION

UNDOT #. N/A 33
 Refer to shipping papers or MSDS

DOT HAZARD CLASS _____ 34
 Refer to shipping papers or MSDS

EPCRA YES NO 35

X _____ 36
 If EPCRA, Please Sign Here



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

Material Safety Data Sheet

Page 1A

Printing date 03/28/2003

POLAROME
INTERNATIONAL

Reviewed on 03/24/2003

1. Identification

Product details

Trade name(s): Eucalyptus Oil

Article number(s):

25205, 25300, 25250, 25150, 25195, 25200, 25355, 80198, 80204, 80594, 25360, 25365

MANUFACTURER/SUPPLIER:

POLAROME INTERNATIONAL USA

200 THEODORE CONRAD DRIVE

JERSEY CITY, NJ 07305 / USA

PHONE: (201) 333-8700

POLAROME SWITZERLAND

FRANKFURT-STRASSE 54

CH-4142 MUENCHENSTEIN, SWITZERLAND

PHONE: +41 61 331 0404

EMERGENCY CONTACTS: CHEM-TEL, Inc. USA 1 800 255-3924 or 1 813 448-0585

2. Composition/Date of composition

Chemical characterization:

CAS No. Description

8000-48-4 Eucalyptus Oil

Identification number(s)

FEMA: 2466

CoE: 185

FDA: 21 CFR 172.510

EINECS Number: 283-406-2

EU Number: 002-834-06-2

3. Hazard identification

Hazard description:



Xn Harmful

Information pertaining to particular dangers for man and environment:

R 10 Flammable.

R 63 Harmful: may cause lung damage if swallowed.

Classification system:

NFPA ratings (scale 0 - 4)



Health - 2

Fire - 2

Reactivity - 0

(Contd. on page 2)

USA

Material Safety Data Sheet

Page 2/6

Printing date 03/28/2003

POLARONE
INTERNATIONAL

Reviewed on 03/24/2003

Trade name(s): Eucalyptus Oil

WHMIS ratings (scale 0 - 6)

HEALTH	2	Health = 2
FIRE	2	Fire = 2
REACTIVITY	0	Reactivity = 0

(Cont'd of page 1)

5. First aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.

4. Fire fighting measures

- Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Protective equipment: No special measures required.

6. Accidental release measures

- Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.
- Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

7. Handling and storage

- Handling: Information for safe handling: No special measures required. Information about protection against explosions and fires: Keep ignition sources away. Do not smoke. Protect against electrostatic charges.
- Storage: Requirements to be met by storerooms and receptacles: It is recommended that this material be stored in a cool, dry, well ventilated area, in tightly sealed, full containers. Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep receptacle tightly sealed.

8. Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Components with limit values that require monitoring at the workplace: Not required.

(Cont'd on page 3)

1.9A

Material Safety Data Sheet

Page 3/5

Printing date 03/28/2003



Reviewed on 03/24/2003

Trade name(s): Eucalyptus Oil

Additional information: The lists that were valid during the creation were used as basis. (Cont'd. of page 2)

- Personal protective equipment:
General protective and hygienic measures
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
- Breathing equipment: Not required.
- Protection of hands: Not required.
- Eye protection:



Tightly sealed goggles

I. Physical and chemical properties

Values are indicative. Consult product specification for product specific ranges.

General information	Vapor Pressure: 1.7 mm Hg 20C
Form:	Liquid
Color:	Light yellow
Odor:	Characteristic
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	48°C (118°F)
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Density at 20°C (68°F):	0.90 g/cm ³
Solubility in / Miscibility with Water at 20°C (68°F):	1 g/l

II. Stability and reactivity

- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications
- Dangerous reactions: No dangerous reactions known.
- Dangerous products of decomposition: No dangerous decomposition products known

III. Toxicological information

- Acute toxicity:
- Primary irritant effect:
on the skin: No irritant effect.
on the eye: No irritating effect.

(Cont'd. on page 4)

USA

Material Safety Data Sheet

Page 6/6

Printing date 03/26/2003



Reviewed on 03/24/2003

Trade name(s): Eucalyptus Oil

Sensitization: No sensitizing effects known.

(Contd. of page 3)

12. Ecological information

General notes: Not known to be hazardous to water.

13. Disposal considerations

- Product:
- Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

14. Transport information

DOT regulations:



- Hazard class: 3
- Identification number: UN1993
- Packing group: III
- Proper shipping name (technical name): Flammable liquid, n.o.s., eucalyptus Oil
- Label: 3
- Emergency Guidebook No.: 136

Land transport ADR/RID (cross-border):



- ADR/RID class: 3 Flammable liquids
- Rev: 31c
- Danger code (Kewler): 30
- UN-Number: 1993
- Description of goods: 1993 Flammable liquid, n.o.s., oil, eucalyptus
- Remarks: USA: proper shipping name: "Combustible Liquid" if in drums and/or pails. No hazard label required.

Maritime transport IMDG:



- IMDG Class: 3.3
- Page: 3345
- UN Number: 1993

(Contd. of page 5)
USA

Material Safety Data Sheet

Page 5/6

Printing date 03/24/2003

POLAROME
INTERNATIONAL

Reviewed on 03/24/2003

Trade name(s): Eucalyptus Oil

(Contd. of page 4)

Label 3
 Packaging group: III
 EHS Number: F-E-S-E
 MFAG: 305
 Proper shipping name: Flammable liquid, n.o.s., eucalyptus Oil

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 3
 UN/ID Number: 1993
 Label: 3
 Packaging group: III
 Proper shipping name: Flammable liquid, n.o.s., eucalyptus Oil

Transport/Additional information:

USA: proper shipping name: combustible liquid if in drums and pails. No hazard label required.

15. Regulations

- Sure
- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is listed.
- Proposition 65
- Chemicals known to cause cancer: Substance is not listed.
- Chemicals known to cause reproductive toxicity: Substance is not listed.
- SCCNFP, Fragrance Allergen's (Values are indicative and differ from batch to batch)
Substance is listed.
Limonene 8 %
- Carcinogen by categories
- EPA (Environmental Protection Agency) Substance is not listed.
- IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- TLV (Threshold Limit Value established by ACGIH) Substance is not listed.
- MAK (German Maximum Workplace Concentration) Substance is not listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.
- Product related hazard informations:
The product has been classified and marked in accordance with directives on hazardous materials.
- Hazard symbols:
Xn Harmful
- Risk phrases:
10 Flammable.
65 Harmful: may cause lung damage if swallowed.

(Contd. on page 6)
USA

Material Safety Data Sheet

Printing date 03/28/2003



Reviewed on 03/24/2003

Trade name(s): Eucalyptus Oil

(Contd. of page 3)

Safety hazard:
29/36 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

L8A

For EMPLOYER REVIEW ONLY

MATERIAL SAFETY DATA SHEET

I. GENERAL INFORMATION

Date: June 15, 2000

Product Identifier : Kimwipes Lens Cleaning Station
 Formula Number : EXQ-Aaron-11-01-98
 Prepared for: Aaron Thomas

Manufacturer/ Address/Phone : Exquisite Corporation
 2664 Stingle Avenue Unit A, Rosemead, CA 91770
 (626) 573-5016 Fax.(626) 573-9752

II. INGREDIENTS

Principal Hazardous Components	Percent	Threshold Limit Value
Isopropyl Alcohol	" 8 % "	N/A

III. PHYSICAL DATA

Boiling Point (degree F) : N/A
 Specific Gravity (H2O=1) : 0.994 FINISHED PRODUCT
 Vapor Pressure (mm Hg.) : N/A
 Percent Volatile By Volume (%) : N/A
 Vapor Density (Air=1) : N/A
 Evaporation Rate (Water =1) : N/A
 Solubility in Water : Soluble in water
 pH : N/A
 Appearance & Odor : Liquid, slightly odor

IV. FIRE & EXPLOSION HAZARD DATA

Flash Point (Test Method) : N/A
 Auto Ignition Temperature : N/A
 Flammable Limits : N/A
 LEL : N/A UEL : N/A
 Extinguishing Media : Carbon Dioxide, Dry Chemical or Foam
 Special Fire Fighting Procedures : N/A

V. HEALTH HAZARD DATA

OSHA Permissible Exposure Limit : N/A
 Primary Route(s) of Entry : Skin
 Emergency First Aid :
 Eye contact: flush eye with plenty of water.
 Skin contact: if irritation, get medical attention.
 Inhalation: remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.
 Swallowing: if victim is conscious and able to swallow, have victim drink water to dilute.

VI. REACTIVITY DATA

Stability : _____ Unstable
 _____ X _____ Stable

Incompatibility : None

Hazardous - _____ None _____ May Occur -
 Polymerization _____ X _____ Will Not Occur

Hazardous Decomposition Products : None

VII. ENVIRONMENTAL PROTECTION PROCEDURES

Spill Response : Use an absorbent material and place in leaking spot
 Waste Disposal Method : N/A

VIII. SPECIAL PROTECTION INFORMATION

Eye Protection : N/A
 Skin Protection : Wash skin with soap.
 Respiratory Protection (Specific Type) : N/A
 Ventilation Recommended : None
 Other Protection : None

IX. SPECIAL PRECAUTIONS

Hygienic Practices in Handling & Storage : Room temperature, store in clean area, dry locations, avoid damaging container.

Other Precautions : None

Exquisite Cosmetic Manufacturing Co.

2664 Stingle Avenue. Unit A. Rosemead CA 91770
626-573-5016. Fax 626-573-9752

November 25, 1998

To: Dan Vaccarella
Aaron Thomas Company
From: Lily Gozaly

Phone number of the tote company :

RMI 1310 327 5401 at Gardena

MATERIAL SAFETY DATA SHEET

Dow Chemical U.S.A. Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 70531

Page: 1

PRODUCT NAME: PROPYLENE GLYCOL USP

Effective Date: 10/10/85 Date Printed: 12/19/87

MSDS:000248

1. INGREDIENTS:

Propylene glycol CAS# 000057-55-6 99%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

2. PHYSICAL DATA:

BOILING POINT: 370F, 188C
VAP PRESS: 0.22 mmHg @ 20C, 68F
VAP DENSITY: 2.62
SOL. IN WATER: Complete
SP. GRAVITY: 1.038 20/20C, 68F
APPEARANCE: Colorless liquid.
ODOR: Odorless.

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: 218F, 103C
METHOD USED: PMCC

FLAMMABLE LIMITS
LFL: 2.6%
UFL: 12.5%

EXTINGUISHING MEDIA: Water fog, alcohol foam, CO2, dry chemical.

FIRE & EXPLOSION HAZARDS: Not available.

FIRE-FIGHTING EQUIPMENT: Wear positive-pressure, self-contained breathing apparatus.

(Continued on Page 2)

(R) Indicates a trademark of The Dow Chemical Company

MATERIAL SAFETY DATA SHEET

Dow Chemical U.S.A. Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 70531

Page: 2

PRODUCT NAME: PROPYLENE GLYCOL USP

Effective Date: 10/10/85 Date Printed: 12/19/87

MSDS:000248

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Stable under normal storage conditions.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Oxidizing material.

HAZARDOUS DECOMPOSITION PRODUCTS: Propionaldehyde, carbon monoxide in the presence of limited oxygen in a fire situation.

HAZARDOUS POLYMERIZATION: Will not occur.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Small spills: Cover with absorbent material, soak up and sweep into a drum. Large spills: Dike around spill and pump into suitable containers.

DISPOSAL METHOD: Reprocess or burn in an approved incinerator in accordance with all federal, state, and local requirements.

6. HEALTH HAZARD DATA:

EYE: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

SKIN CONTACT: Prolonged contact is essentially nonirritating to skin. Repeated exposure may cause slight flaking, tenderness, and softening of skin.

SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD50 for skin absorption in rabbits is >10 g/kg.

INGESTION: Single dose oral toxicity is low. The oral LD50 for rats is 21-33.7 g/kg. No hazards anticipated from ingestion

(Continued on Page 3)

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M A T E R I A L S A F E T Y D A T A S H E E T

Dow Chemical U.S.A. Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 70531

Page: 3

PRODUCT NAME: PROPYLENE GLYCOL USP

Effective Date: 10/10/85 Date Printed: 12/19/87

MSDS:000248

6. HEALTH HAZARD DATA: (CONTINUED)

incidental to industrial exposure.

INHALATION: A single prolonged (hours) inhalation exposure is not likely to cause adverse effects. Mists are not likely to be hazardous.

SYSTEMIC & OTHER EFFECTS: Repeated excessive ingestion may cause central nervous system effects. Did not cause cancer in long-term animal studies. Birth defects are unlikely. Exposures having no adverse effects on the mother should have no effect on the fetus. In animal studies; has been shown not to interfere with reproduction. Results of in vitro ("test tube") mutagenicity tests have been negative. Results of mutagenicity tests in animals have been negative.

7. FIRST AID:

EYES: Irrigate immediately with water for at least 5 minutes.

SKIN: Wash off in flowing water or shower.

INGESTION: No adverse effects anticipated by this route of exposure.

INHALATION: No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

(Continued on Page 4)

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M A T E R I A L S A F E T Y D A T A S H E E T

Dow Chemical U.S.A. Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 70531

Page: 4

PRODUCT NAME: PROPYLENE GLYCOL USP

Effective Date: 10/10/85 Date Printed: 12/19/87

MSDS:000248

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(S): Dow Industrial Hygiene Guide is 10 mg/m³ mist, 400 ppm vapor.

VENTILATION: Good general ventilation should be sufficient.

RESPIRATORY PROTECTION: When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator.

SKIN PROTECTION: Use impervious gloves when prolonged or frequently repeated contact could occur.

EYE PROTECTION: Use safety glasses. Where contact with liquids is likely, chemical goggles are recommended because eye contact with this material may cause pain, even though it is unlikely to cause injury.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Exercise reasonable care and caution.

MSDS STATUS: 18 SEP 85 Revised 1, 2, 3, and 4.

(R) Indicates a trademark of The Dow Chemical Company
The Information Herein Is Given In Good Faith, But No Warranty,
Express Or Implied, Is Made. Consult The Dow Chemical Company

For Further Information.



MATERIAL SAFETY DATA SHEET

MSDS NUMBER 5,120-8

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24 HOUR EMERGENCY ASSISTANCE		GENERAL MSDS ASSISTANCE	
SHELL: 713-473-9461 CHEMTREC: 800-424-9300		SHELL: 713-241-4819	
ACUTE HEALTH +	FIRE 3	REACTIVITY 0	HAZARD RATING LEAST 0 EIGHT 1 MODERATE 2 HIGH 3 EXTREME 4
*For acute and chronic health effects refer to the discussion in Section III			



SECTION I PRODUCT NAME

PRODUCT ▶ ISOPROPYL ALCOHOL

CHEMICAL NAME ▶ IPA, ISOPROPANOL, 2-PROPANOL

CHEMICAL FAMILY ▶ ALCOHOL

SHELL CODE ▶ 31110

SECTION II-A PRODUCT/INGREDIENT

NO.	COMPOSITION	CAS NUMBER	PERCENT
1	ISOPROPYL ALCOHOL	67-63-0	100

SECTION II-B ACUTE TOXICITY DATA

NO.	ACUTE ORAL LD50	ACUTE DERMAL LD50	ACUTE INHALATION LC50
1	5840 MG/KG (RAT)	13000 MG/KG (RABBIT)	12000 PPM (RAT) 8 HRS

SECTION III HEALTH INFORMATION

THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

EYE CONTACT
MODERATELY IRRITATING TO THE EYES

SKIN CONTACT
MILDLY IRRITATING TO THE SKIN

INHALATION
MAY CAUSE MILD IRRITATION TO THE NOSE, THROAT AND RESPIRATORY TRACT AND MAY RESULT IN CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION

INGESTION
GENERALLY CONSIDERED TO HAVE A LOW ORDER OF ACUTE ORAL TOXICITY

SIGNS AND SYMPTOMS
IRRITATION AS NOTED ABOVE. EARLY TO MODERATE CNS DEPRESSION MAY BE EVIDENCED BY GIDDINESS, HEADACHE, DIZZINESS, AND NAUSEA

AGGRAVATED MEDICAL CONDITIONS
PREEXISTING SKIN, EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO IPA.

F A X / T R A N S M I T T A L *****

PRODUCT NAME: ISOPROPYL ALCOHOL

MSDS PAGE 2

SEE SECTION VI FOR ADDITIONAL HEALTH INFORMATION

SECTION IV OCCUPATIONAL EXPOSURE LIMITS

NO.	OSHA		ACGIH		OTHER
	PEL/TWA	PEL/CEILING	TLV/TWA	TLV/STEL	
1	400 PPM		400 PPM	500 PPM	

50% ODOR RECOGNITION THRESHOLD IS 10 PPM

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

SKIN CONTACT
FLUSH SKIN WITH WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

INHALATION
REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

INGESTION
DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR VERY DROWSY. OTHERWISE, GIVE NO MORE THAN 2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING 30CC (2 TABLESPOONS) SYRUP OF IPECAC. IF IPECAC IS UNAVAILABLE, GIVE 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF VICTIM'S THROAT. KEEP VICTIM'S HEAD BELOW HIPS WHILE VOMITING. GET MEDICAL ATTENTION.

NOTE TO PHYSICIAN
IF VICTIM IS A CHILD, GIVE NO MORE THAN 1 GLASS OF WATER AND 15CC (1 TABLESPOON) SYRUP OF IPECAC. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED FOLLOWING INTUBATION WITH A CURVED ENDOTRACHEAL TUBE.

SECTION VI SUPPLEMENTAL HEALTH INFORMATION

NONE IDENTIFIED.

SECTION VII PHYSICAL DATA

BOILING POINT: 180 (DEG F) SPECIFIC GRAVITY: 0.78 (H₂O=1) VAPOR PRESSURE: 39 @ 68 DEG F (MMHG)

MELTING POINT: -127 (DEG F) SOLUBILITY: COMPLETE (IN WATER) VAPOR DENSITY: 2.1 (AIR=1)

EVAPORATION RATE (N-BUTYL ACETATE): 1.0

APPEARANCE AND ODOR: COLORLESS, MOBILE LIQUID, MILD ODOR

PRODUCT NAME: ISOPROPYL ALCOHOL

MSDS
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SECTION VIII FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD:
53 DEG F -TCCFLAMMABLE LIMITS /% VOLUME IN AIR
LOWER: 2 UPPER: 12

EXTINGUISHING MEDIA

USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL OR CO2

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

WARNING: FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS) INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

SECTION IX REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:

AVOID HEAT, SPARKS, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS. DO NOT STORE OR HANDLE IN ALUMINUM EQUIPMENT AT TEMPERATURES ABOVE 120 DEG. F.

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION X EMPLOYEE PROTECTION

RESPIRATORY PROTECTION

IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SEC. IV) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

PROTECTIVE CLOTHING

AVOID CONTACT WITH EYES. WEAR CHEMICAL GOGGLES IF THERE IS LIKELIHOOD OF CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WEAR CHEMICAL-RESISTANT GLOVES AND OTHER CLOTHING AS REQUIRED TO MINIMIZE CONTACT. TEST DATA FROM PUBLISHED LITERATURE AND/OR GLOVE AND CLOTHING MANUFACTURERS INDICATE THE BEST PROTECTION IS PROVIDED BY NITRILE, NEOPRENE AND NATURAL RUBBER GLOVES.

ADDITIONAL PROTECTIVE MEASURES

USE EXPLOSION-PROOF VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS. EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR EMERGENCY USE.

SECTION XI ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES

WARNING: FLAMMABLE. ELIMINATE ALL IGNITION SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. *** LARGE SPILLS *** EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS. CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL. PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS AS ABOVE. *** SMALL SPILLS *** TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS. SEAL TIGHTLY FOR PROPER DISPOSAL.

PRODUCT NAME: ISOPROPYL ALCOHOL

MSDS B, 120-B
PAGE 4

WASTE DISPOSAL

UNDER EPA-RACA (40 CFR 261.21), IF THIS PRODUCT BECOMES A WASTE MATERIAL, IT WOULD BE IGNITABLE HAZARDOUS WASTE. HAZARDOUS WASTE NUMBER D001. REFER TO LATEST EPA OR STATE REGULATIONS REGARDING PROPER DISPOSAL.

ENVIRONMENTAL HAZARDS

EPA - COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT, UNDER EPA-CERCLA ("SUPERFUND") RELEASES TO AIR, LAND OR WATER MAY BE REPORTABLE TO THE NATIONAL RESPONSE CENTER, 800-424-8802 (CIRCUMSTANCES SURROUNDING THE RELEASE AND CLEANUP DETERMINE REPORTABILITY).

SECTION XII

SPECIAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS AND FLAME SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE EVEN LIQUID PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES AND TURN OFF OTHER SOURCES OF IGNITION PRIOR TO USE AND UNTIL ALL VAPORS ARE GONE. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM THE HANDLING SITE; FLASH-FIRE CAN RESULT. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION. CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, WELD OR PERFORM SIMILAR OPERATIONS ON OR NEAR CONTAINERS. STATIC ELECTRICITY MAY ACCUMULATE AND CREATE A FIRE HAZARD. GROUND FIXED EQUIPMENT AND GROUND TRANSFER CONTAINERS AND EQUIPMENT.

WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

DO NOT STORE OR HANDLE IN ALUMINUM EQUIPMENT AT TEMPERATURES ABOVE 120 DEG. F.

SECTION XIII

TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATION: FLAMMABLE LIQUID
D.O.T. PROPER SHIPPING NAME: ISOPROPANOL

OTHER REQUIREMENTS:

DOT ID NUMBER = UN 1218 - GUIDE SHEET 26

SECTION XIV

OTHER REGULATORY CONTROLS

THIS PRODUCT IS LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, SHELL MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. SHELL ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

DATE PREPARED: SEPTEMBER 15, 1986

BE SAFE

READ OUR PRODUCT
SAFETY INFORMATION ... AND PASS IT ON
(PRODUCT LIABILITY LAW
REQUIRES IT)

JOHN P. SEPESE

SHELL OIL COMPANY
PRODUCT SAFETY AND COMPLIANCE
P. O. BOX 4320
HOUSTON, TX 77210

MATERIAL SAFETY DATA SHEET

ICI Americas Inc.
 Wilmington, Delaware 19897
 Phone (24 hr.) Technical: (302) 886-3000 ***
 Medical: (800) 327-8633

900061

Issue Date: 07/09/91

Rev.: G
 CIDS: 11700, 11703,
 11704

SECTION 1 NAME & HAZARD SUMMARY

Material name:

TWEEN® 20, All Products (Polysorbate 20)

Hazard summary (as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200):

Physical hazards: None

Health hazards: None

Read the entire MSDS for a more thorough evaluation of the hazards.

SECTION 2 INGREDIENTS

	%	OSHA PEL
Polyoxyethylene (20) sorbitan monolaurate (CAS 9005-64-5)	100	Not listed

Ingredients not precisely identified are proprietary or nonhazardous. Values are not product specifications. gt - greater than, lt - less than, ca - approximately

SECTION 3 PHYSICAL DATA

Boiling point: Above 212°F, 100°C
 Vapor pressure (mmHg at 20°C): Below 1.0
 Vapor density (air = 1): Not applicable
 Solubility in water: Soluble
 pH: Neutral
 Specific gravity: 1.1
 % Volatile by volume: Negligible
 Appearance and odor: Amber liquid

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash point (and method): Above 300°F, 148.9°C (Cleveland open cup)
 Autoignition temp.: No data
 Flammable limits (STP): No data

Extinguishing media:

Water fog, alcohol foam, carbon dioxide, dry chemical, halogenated agents.

Special fire fighting protective equipment:

Self-contained breathing apparatus with full facepiece and protective clothing.

Unusual fire and explosion hazards:

None known.

MATERIAL SAFETY DATA SHEET (continued)

SECTION 5 REACTIVITY DATA

TWEEN 20, All Products

Stability:

Stable under normal conditions.

Incompatibility (materials to avoid):
Oxidizing agents.

Hazardous decomposition products:

Combustion products: Carbon dioxide, carbon monoxide.

Hazardous polymerization:
Will not occur.

SECTION 6 HEALTH HAZARD ASSESSMENT

General:

This health hazard assessment is based on information from commercial and scientific literature.

Ingestion:

The acute oral LD₅₀ in rat is above 38.9 g/kg for TWEEN 20. Relative to other materials, this product is classified as relatively harmless by ingestion.

Eye contact:

A 30% suspension of TWEEN 20 is nonirritating in rabbit eye studies; no irritation is likely to occur after human eye contact.

Skin contact:

TWEEN 20 is nonirritating in rabbit dermal irritation studies; no skin irritation or sensitization developed following application of TWEEN 20 among 50 subjects in human patch tests.

Skin absorption:

This product will probably not be absorbed through human skin.

Inhalation:

No toxic effects are known to be associated with inhalation of vapors from this material.

Other effects of overexposure:

*** Numerous long-term feeding studies have been conducted on a variety of animal species. Animals have been fed polysorbates at dietary levels of up to 25 percent, for periods of up to two years, and in some cases, over multiple generations. After reviewing many of these studies, the FAO/WHO Committee on Food Additives concluded that polysorbates cause no toxicological effects at a level of five percent in the daily diet of test animals. The most notable effect observed at higher doses is diarrhea, an expected, non-specific physiological effect associated with having large quantities of a relatively slowly absorbed material in the gut.

MATERIAL SAFETY DATA SHEET (continued)

TWEEN 20, All Products

SECTION 6 HEALTH HAZARD ASSESSMENT (continued)

First aid procedures:

Skin: Wash material off the skin with plenty of soap and water. If redness, itching or a burning sensation develops, get medical attention.

Eyes: Immediately flush with plenty of water for at least 15 minutes. If redness, itching or a burning sensation develops, have eyes examined and treated by medical personnel.

Ingestion: Give one or two glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person.)

Inhalation: Remove victim to fresh air. If cough or other respiratory symptoms develop, consult medical personnel.

SECTION 7 SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Soak up liquid with absorbent and shovel into waste container. Wash residue from spill area with water and flush to a sewer serviced by a wastewater treatment facility.

Disposal method:

Discarded product is not a hazardous waste under RCRA, 40 CFR 261.

Container disposal:

Puncture or otherwise destroy empty container before disposal.

SECTION 8 SPECIAL PROTECTION INFORMATION

TLV[®] or suggested control value:

No TLV assigned. Minimize exposure in accordance with good hygiene practice.

Ventilation:

Use local exhaust to keep exposures to a minimum.

Respiratory protection (specify type):

If needed, use MSHA-NIOSH approved respirator for dusts, mists and fumes whose TLV is greater than 0.05 mg/m³.

Protective clothing:

Impervious gloves and apron.

Eye protection:

Chemical tight goggles.

Other protective equipment:

Eyewash station in work area.

SECTION 9 SPECIAL PRECAUTIONS OR OTHER COMMENTS

Precautions to be taken in handling or storing:

Normal chemical handling and storage.

Do not use this product in formulations intended for parenteral administration unless the final formulation has been tested thoroughly and is safe for its intended use.

MATERIAL SAFETY DATA SHEET (continued)

TWEEN 20, All Products

SECTION 10 REGULATORY INFORMATION

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:

All ingredients are on the TSCA Chemical Substance Inventory.

CERCLA and SARA Regulations (40 CFR 355, 370, and 372):

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

The information herein is given in good faith but no warranty, expressed or implied, is made.

Prepared/Reviewed: 11/85

***This line or section contains revisions or new statements since the last issue date.



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD DELETE REVISED 1 Page _____ of _____ 2

FACILITY ID# **30035** BUSINESS NAME **AARON THOMAS COMPANY INC.**

I. FACILITY INFORMATION

CHEMICAL LOCATION **7421 CHAPMAN AVE. GARDEN GROVE CA. 92841**

CONFIDENTIAL LOCATION Yes No 5 MAP # **1** 6 GRID # **I-8** 7

II. CHEMICAL INFORMATION

CHEMICAL NAME **ACETONE** WASTE Yes No 8 TRADE SECRET Yes No 11
* If EPCRA see instructions

COMMON NAME **ACETONE** 9 An EHS Chemical Yes No 12
* If EHS is "Yes", all amounts must be LBS

CAS # **MIXTURE** 10 FIRE CODE HAZARD CLASSES (supplied by GGFD) **F E B** 13

TYPE (Check one item only) a. PURE b. MIXTURE c. WASTE 14 RADIOACTIVE Yes No 15 CURIES 16

PHYSICAL STATE (Check one item only) a. SOLID b. LIQUID c. GAS 17 FED HAZARD CATEGORIES a. FIRE b. REACTIVE c. PRESSURE RELEASE 18
 d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT **500 GAL** 19 MAXIMUM DAILY AMOUNT **500 GAL** 20 ANNUAL WASTE AMOUNT **165 GAL** 21 STATE WASTE CODE **212** 22

UNITS a. GALLONS b. CUBIC FEET 23 DAYS ON SITE **365** 24 LARGEST CONTAINER **55 GAL** 25
 c. POUNDS d. TONS
* If EHS, amount must be in pounds.

STORAGE CONTAINER (Check all that apply) a. ABOVEGROUND TANK e. PLASTIC DRUM i. VAT m. CYLINDER q. TANK WAGON 26
 b. UNDERGROUND TANK f. NONMETALLIC DRUM l. FIBER DRUM n. GLASS CONTAINER r. RAIL CAR
 c. TANK INSIDE BLDG g. METAL CONTAINER o. PLASTIC CONTAINER s. TOTE BIN
 d. STEEL DRUM h. CARBOY j. BOX(S) p. IN MACH OR EQUIP t. OTHER

STORAGE PRESSURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT 27

STORAGE TEMPERATURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC 28

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 80	ACETONE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	67-64-1
2 20	ALKYL TOLUIDINES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	99-97-8
3 5.0	ARLAMOL E.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	85231-21-4
4		<input type="checkbox"/> Yes <input type="checkbox"/> No	
5		<input type="checkbox"/> Yes <input type="checkbox"/> No	

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

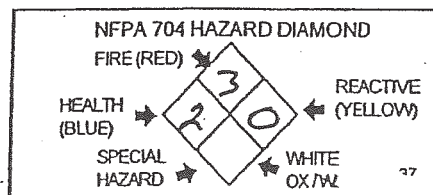
PLACARDING INFORMATION

UNDOT # **UN 1090** 33
Refer to shipping papers or MSDS

DOT HAZARD CLASS **3** 34
Refer to shipping papers or MSDS

EPCRA YES NO 35

X _____ 36
If EPCRA, Please Sign Here



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

Van Waters & Rogers Inc.

** Material Safety Data Sheet **

Date: 06/13/00

Time: 15:52:00

To: DANNY
THE NEW COSMAR CORP.

Fax: 1714-895-6612

From: RONNIE HINMAN

Phone:

Re: MSDS - COSMAR BLEND #2C

REMARKS:



Fax Cover Sheet

Including this cover sheet, you should receive 7 pages.

For emergency assistance involving chemicals,
call CHEMTREC - (800) 424-9300

Van Waters & Rogers, a Royal Pakhoed Company
6100 Carillon Point, Kirkland, WA 98033 425-889-3400

003 06/08/94 COSMAR BLEND #2C

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: COSMAR BLEND #2C

MSDS #: B20338

DATE ISSUED: 05/16/94

DATE SUPERSEDES: Original

SECTION 2: HAZARDOUS INGREDIENTS

COMPONENT	CAS NO	%
Acetone	67-64-1	90.25
Arlamol E (Poly(oxypropylene) (15) stearyl ether)	25231-21-4	5.00
Gamma Butyrolactone	96-48-0	4.75

NOTE: See section 8 of this MSDS for exposure guidelines.

SECTION 3: HAZARD IDENTIFICATION

DANGER!

FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE.

SEVERELY IRRITATES AND MAY DAMAGE EYES.

IRRITATES SKIN AND RESPIRATORY TRACT

ASPIRATION HAZARD. IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE

CAN CAUSE KIDNEY, LIVER, AND/OR CENTRAL NERVOUS SYSTEM EFFECTS

Keep away from heat, sparks, and flame. Keep container closed. Use with adequate ventilation.

Avoid contact with skin and clothing. Wash thoroughly after handling.

HAZARD RATING (NFPA CRITERIA):

HEALTH: 2
FIRE: 3
REACTIVITY: 0

HAZARD RATING SCALE

0=minimal
1=slight
2=moderate
3=serious
4=severe

NOTE: NFPA ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

POTENTIAL HEALTH EFFECTS

THIS MIXTURE HAS NOT BEEN TESTED AS A WHOLE, THE DATA PRESENTED BELOW IS BASED ON THE PROPERTIES OF THE INDIVIDUAL COMPONENTS.

MAIN ROUTES OF EXPOSURE: Inhalation, Eye contact, Skin contact & absorption

TARGET ORGANS: None noted

IMMEDIATE (ACUTE) EFFECTS:

INHALATION: A single brief (minutes) inhalation exposure is not likely to cause adverse effects. A prolonged exposure may cause irritation to upper respiratory tract. Excessive exposure may also cause anesthetic or narcotic

LOWER LIMIT: 2.6 (lowest of components)
UPPER LIMIT: 16.0 (highest of components)

AUTOIGNITION TEMPERATURE (Deg F): No Data Found

GENERAL HAZARD:

- * Flammable liquid
- * Can release vapors that form flammable mixtures at temperatures at or above the flashpoint.
- * Contact with strong oxidizers may cause fire or explosion.
- * Toxic gases will form upon combustion.
- * Material can accumulate static charges which can cause an incendiary electrical discharge.
- * Emptied containers retain product residue (liquid and/or vapor) and can be dangerous.

FIRE EXTINGUISHING MEDIA: Apply alcohol-type or all-purpose-type foam by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires.

FIRE FIGHTING INSTRUCTIONS:

- * Fire fighters should wear full protective equipment and positive-pressure self-contained breathing apparatus.
- * Use water spray to cool fire exposed surfaces and to protect personnel.
- * Do not spray water directly into containers.
- * Water runoff can cause environmental damage. Dike and collect water used to fight fires.

SPECIAL HAZARDS:

- * This liquid is volatile and gives off invisible vapors. Either the liquid or vapors may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode (flash back).
- * Liquid may float on the water and may reignite.

HAZARDOUS COMBUSTION PRODUCTS: Irritating fumes and smoke; carbon monoxide and/or carbon dioxide and unidentified organic compounds. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PRECAUTIONS: Only trained and properly equipped personnel should handle spills. Isolate hazard area. Keep away unnecessary and unprotected personnel. Shut off leak if safe to do so. Ventilate spill area. Keep away from sewers, drains, waterways and soil.

SMALL SPILLS: Absorb spill with inert material (e.g., dry sand or absorbent), then place in a DOT-approved chemical waste container.

LARGE SPILLS: Dike spill with earth or sand and take up with non-combustible absorbent or pump into DOT-approved waste containers. Use explosion-proof pump. Do NOT use combustible materials such as sawdust.

SECTION 7: STORAGE AND HANDLING

STORAGE: Store in cool, dry, well-ventilated area, away from incompatible materials. Keep away from heat, sparks, flames and sources of static electricity. Keep container closed when not in use.

HANDLING:

Avoid contact with eyes and skin.
Do not breathe vapors or mists.

effects (headache, dizziness, drowsiness).

SKIN CONTACT: Mildly irritating. May cause drying or flaking of the skin. May be absorbed through the skin in harmful amounts.

SKIN ABSORPTION: Extensive, prolonged or repeated exposure to this material can lead to significant absorption. Overexposure to gamma-butyrolactone is expected to cause symptoms of central nervous system (CNS) depression. (For example, drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness.)

EYE CONTACT: Severely irritating to eyes. May cause moderate corneal injury.

INGESTION/SWALLOWING: This material may be a slight health hazard if ingested in large quantities, with symptoms and effects as described for skin absorption.

CHRONIC (LONG TERM) EFFECTS: None noted.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing eye disease may be aggravated by exposure to this material.

CARCINOGENICITY: The components of this material are not considered carcinogenic by the National Toxicology Program (NTP), The International Agency for Research on Cancer (IARC) or The Occupational Health and Safety Administration (OSHA).

SECTION 4: FIRST AID MEASURES

INHALATION: Using proper respiratory protection immediately remove affected victim from exposure. Administer artificial respiration if breathing has stopped. Give oxygen if breathing is difficult, provided that qualified medical personnel is available. Get medical attention.

EYE CONTACT: Immediately flush eyes with running water for 30 minutes, holding the eyelids apart. Seek medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush skin with running water for 15-30 minutes. Use soap if available. Launder clothing before reuse. Seek medical attention if irritation develops or persists.

INGESTION: Immediately call poison control center or physician. Inform medical personnel of the composition of this product and the approximate amount ingested. Do not induce vomiting without medical advice and/or supervision. If vomiting occurs spontaneously, keep victim's head below hips to prevent absorption of the material into the lungs. Do not give anything by mouth to an unconscious or convulsing person. Keep victim warm and at rest. If victim is conscious and can swallow give 1 or 2 glasses of water or milk to drink.

NOTE TO THE PHYSICIAN: Absorption hazard. If lavage is performed, suggest endotracheal and/or esophagosopic control. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT (Deg. F): -4 Deg F

METHOD: Calculated (components range from -4F for acetone to 300F for Arlamol E)

FLAMMABLE (EXPLOSIVE) LIMITS IN AIR, IN %:

- Use only in properly ventilated area.
- Wash thoroughly after handling
- Ground and bond containers when transferring material to prevent static discharge.
- Use spark-proof tools and explosion proof equipment.
- Vent containers frequently, more often in warm weather.
- Remove contaminated clothing and launder before reuse.

Emptied containers may retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind on or near these containers and do not expose to heat, flame, sparks, static, electricity, or other sources of ignition. They may explode and cause injury or death. Always obey hazard warnings and handle empty containers as if they were full. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

 SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

	OSHA PEL, ppm		ACGIH, ppm	
	TWA	STEL	TLV	STEL
Acetone	750	1000	750	1000
Butyrolactone	none established			
Arlamol E	none established			

ENGINEERING CONTROLS: A system of local and/or general exhaust is recommended to keep employee exposures below the airborne exposure limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Use explosion-proof ventilation equipment.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATOR: If concentrations are above the lowest permissible exposure limit or are unknown, use NIOSH/MSHA approved respirator appropriate for the emission levels. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: When skin contact is likely, wear impervious protective clothing, including gloves, lab coat, apron, coveralls, safety shoes or boots. Consult with your protective clothing vendor when selecting specific items.

EYE/FACE PROTECTION: Wear chemical goggles. It is generally accepted that contact lenses should not be worn when handling chemicals.

OTHER EQUIPMENT: Have a safety shower and an eye-wash station nearby and ready for use.

SELECTION OF THE SPECIFIC ITEMS DEPENDS ON THE OPERATION PERFORMED. PERSONAL PROTECTIVE EQUIPMENT (PPE) MUST NOT BE CONSIDERED A LONG TERM SOLUTION TO EXPOSURE CONTROL. PPE MUST BE ACCOMPANIED BY EMPLOYER PROGRAMS TO PROPERLY SELECT, MAINTAIN, CLEAN, FIT AND USE. CONSULT A COMPETENT INDUSTRIAL HYGIENE RESOURCE TO DETERMINE HAZARD POTENTIAL AND/OR THE PPE MANUFACTURERS TO ENSURE ADEQUATE PROTECTION.

 SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- APPEARANCE: Colorless liquid, (possibly very slightly yellow)
- ODOR: Not determined
- pH: N/A
- VAPOR PRESSURE: Not determined

VAPOR DENSITY (AIR=1): >1
EVAPORATION RATE (n-butyl acetate=1): No Data Found
BOILING POINT (deg. F): 133
FREEZING/MELTING POINT: (deg F) No Data Found
SOLUBILITY IN WATER: Miscible
SPECIFIC GRAVITY (water=1): 1.09

NOTE: ALL DATA IS ESTIMATED

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under suggested storage conditions.

CONDITIONS TO AVOID: Heat, sparks, open flames, sources of static electricity and contact with incompatible materials.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids, strong bases

HAZARDOUS DECOMPOSITION PRODUCTS: At elevated temperatures may emit carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY DATA OF THE COMPONENTS IS AVAILABLE UPON REQUEST.

SECTION 12: ECOLOGICAL INFORMATION

NO DATA AVAILABLE

SECTION 13: DISPOSAL CONSIDERATIONS

Consult an expert on disposal of waste and materials used in spill cleanup and ensure conformity to all federal, state and local disposal regulations. Regulatory requirements are subject to change and may differ from one location to another; the generator of the waste is responsible for proper waste disposal.

Emptied containers may retain product residue and vapors and are subject to proper disposal as above. Regulations also apply to container liners and rinsates.

SECTION 14: TRANSPORT INFORMATION

DOT SHIPPING INFORMATION:

PROPER SHIPPING NAME: FLAMMABLE LIQUIDS, N.O.S.
HAZARD CLASS: 3
UN/NA IDENTIFICATION NUMBER: UN1993
PACKING GROUP: II
CONSTITUENTS: ACETONE, BUTYROLACTONE,
RQ: 5000 LBS FOR ACETONE

SECTION 15: REGULATORY INFORMATION

NOT MEANT TO BE ALL-INCLUSIVE; SELECTED REGULATIONS REPRESENTED

OSHA: Hazardous by definition of Hazard Communication Standard.

TSCA: Components of this product are listed on the TSCA inventory.

SARA TITLE III: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372:

COMPONENT	CAS NO.	MAXIMUM %
Acetone	67-64-1	4.75

CALIFORNIA PROPOSITION 65: WARNING. This material contains chemical(s) known to the state of California to cause cancer, birth defects or other reproductive harm.

SECTION 16: OTHER INFORMATION

NOT APPLICABLE

----- FOR ADDITIONAL INFORMATION -----

CONTACT: MSDS COORDINATOR VAN WATERS & ROGERS INC.
DURING BUSINESS HOURS, PACIFIC TIME (425)889-3400

----- NOTICE -----

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* * * E N D O F M S D S * * *

MATERIAL SAFETY DATA SHEET

DATE: 06/14/99
Page 1 of 2

Section 1

PACER TECHNOLOGY
9420 Santa Anita Avenue
Rancho Cucamonga, CA 91730

HAZARD RATING

3
1 x 0

For Chemical Emergency only
In US and Canada: (800) 424-9300
Int'l & Wash DC (COLLECT): (202) 483-7416
Telephone for Information: (909) 987-0550

PRODUCT IDENTIFICATION:

Del Labs Artificial Nail Remover

Section 2 - HAZARDOUS INGREDIENTS INFORMATION:

Hazardous Components: (Common Names, CAS Number)	OSHA PEL	ACGIH TLV	OTHER LIMITS	% OPTION
Acetone: (67-64-1)	750ppm	750ppm	1000ppm	80-100%
Alkyl tolalidines (99-97-8)	NE	NE	NE	1-20%

*This ingredient is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments & Reauthorization Act of 1986 (SARA) and 40.CER 372.

Section 3 - PHYSICAL/CHEMICAL CHARACTERISTICS:

Boiling Point: 133 F
 Vapor Density (Air=1): 2.0
 Vapor Pressure @ 20 C (mm Hg): 184mm
 Solubility in Water: 85% by weight
 Appearance & Odor: Water-white to straw colored, transparent liquid with ketone odor.

Specific Gravity (H2O=1): 0.80
 Melting Point: -139 F
 Evaporation Rate (Butyl Acetate = 1): 5.0

Section 4 - FIRE AND EXPLOSION HAZARD DATA:

Flash Point (Method Used): -15 F (TCC)
 Extinguishing Media: Carbon dioxide, dry chemical, "alcohol" foam, water spray or fog.
 Special Fire Fighting Procedures: Firefighters should use self-contained breathing apparatus.
 Unusual Fire and Explosion Hazards: Treat as an extremely flammable liquid.

Flammable Limits: LEL: 2.6% UEL: 12.8%

Section 5 - REACTIVITY DATA:

Stability: Stable XX
 Conditions to Avoid: Storage in open containers, exposure to heat or open flame.
 Incompatible Materials to Avoid: Nitric acid plus acetic acid and nitric acid plus sulfuric acid.
 Hazardous Decomposition or Byproducts: Normally none, however with incomplete combustion carbon monoxide can form.
 Hazardous Polymerization: May Not Occur XX
 Conditions to Avoid: Avoid exposure to heat or open flame.

Section 6 - HEALTH HAZARD DATA:

Route(s) of Entry: Inhalation: Skin: Ingestion:
 LC50 = >32,000ppm/4hr LD50 = 3.24g/kg LD50 = 7.4g/kg

Health Hazards (Acute and Chronic):
 Acute - irritation to eyes, nose and throat may cause headaches, dizziness, nausea and unconsciousness.
 Chronic - possible affect to liver and kidneys.

MATERIAL SAFETY DATA SHEET

DEL Labs Artificially Flammability Remover

Carcinogenicity: NTP: No IARC Monographs: No OSHA Regulated: No

First Aid Procedures:

Inhalation: Vapors can be irritating and deaden sense of smell after short time exposure, with prolonged exposure causing irritation to eyes, nose, throat. Remove to fresh air.
Eye contact: Immediately flush eyes with water for 15 minutes. Get medical attention.
Skin contact: Remove contaminated clothing. Wash affected area with water.
Ingestion: Wash out mouth with water provided person is conscious. Get medical attention.
Medical Conditions Generally Aggravated by Exposure: Preexisting skin disorders.

Section 7 - PRECAUTIONS FOR SAFE HANDLING AND USE:

Steps to Be Taken in Case Material is Released or Spilled: Ventilate area and remove sources of ignition. Prevent skin contact and breathing vapors. Confine and remove with inert absorbent. Dispose in accordance with applicable federal, state, and local regulations. (Do not incinerate in closed containers).
Waste Disposal Method: CRA-EPA hazardous waste number U002. Must be disposed of either by burial at a chemical landfill or controlled burning by a licensed chemical waste facility in accordance with current local, state, and federal regulations.
Precautions to Be Taken in Handling and Storing: Acetone is a very volatile and extremely flammable liquid. Keep away from any source of ignition such as heat, sparks and open flames. Ground all containers when transferring liquid, store tightly closed containers in a cool, well ventilated area. Do not eat or smoke in area where this product is handled.
Other Precautions: Emptied containers may contain product residues and should be disposed of as chemical waste.

Section 8 - CONTROL MEASURES:

Respiratory Protection (Specify Type): NIOSH approved organic vapor canister in absence of proper ventilated environment.
Ventilation: Local Exhaust: Good. Mechanical (General): As needed.
Protective Clothing or Equipment: Neoprene gloves, safety glasses or goggles, protective clothing to avoid direct contact.
Work/Hygiene Practices: Avoid direct contact with eyes/skin. Wear protective safety equipment as necessary to minimize contact. Wash hands with soap and water and launder contaminated clothing before reuse.

NE = Not Established

The data contained herein is based upon information that Pacer Technology believes to be reliable. Users of this product have the responsibility to determine the suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

REPORT NUMBER: 971

TU-K INDUSTRIES, INC.
MATERIAL SAFETY DATA SHEET

PAGE: 001

MSDS NO: DZ00259

EFFECTIVE DATE: 11/10/98

CHEMTREK: (800) 424-9300

FLAMMABLE LIQUID N.O.S. 3 UN 1993 PGIII

PRODUCT: TJ-BLEND #4 (Proprietary Mixture)

INTENDED USE: Remove Artificial Nails

HAZARDOUS INGREDIENTS: Acetone CAS#67-64-1
Isopropyl Alcohol CAS#67-63-0

2. PHYSICAL DATA:

BOILING POINT: 133F, 56C

VAP PRESS: 181.7 mmHg @ 20C

VAP DENSITY: 2.00

SOL. IN WATER: Completely Miscible.

SP. GRAVITY: 0.820 @ 20C

APPEARANCE: Colorless Liquid.

ODOR: Sweetish.

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: -4F, -20C

METHOD USED: TCC

FLAMMABLE LIMITS

LFL: 2.6%

UFL: 12.8%

EXTINGUISHING MEDIA: Alcohol resistant foam, carbon dioxide, and dry chemical.

FIRE & EXPLOSION HAZARDS: Water can be used to cool fire-exposed containers, to protect personnel and to disperse vapors and spills. The autoignition temperature is 869F (465C).

FIRE-FIGHTING EQUIPMENT: Firemen should wear normal protective equipment and positive pressure self-contained breathing apparatus.

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Keep away from flames and spark-producing equipment.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Nitric plus acetic acids and nitric plus sulfuric acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide and some carbon monoxide.

(S)

REPORT NUMBER: 971
MSDS NO: DZ00259
EFFECTIVE DATE: 11/10/98

TU-K INDUSTRIES, INC.
MATERIAL SAFETY DATA SHEET

PAGE: 002

CHEMTREK: (800) 424-9300

PRODUCT: TJ-BLEND #4 (Proprietary Mixture) Continued

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Small spill- Allow to evaporate if it can be done safely. Otherwise soak up with absorbent material and scoop into drums. Large spill- dike and pump into drums using air-operated or other non-spark producing pump. Prevent acetone from entering drains or sewers.

DISPOSAL METHOD: Burn in incinerator. Follow all local, state, and federal laws and requirements for disposal.

6. HEALTH HAZARD DATA:

EYE: May cause moderate eye irritation and moderate corneal injury. Vapors may irritate eyes.

SKIN CONTACT: Prolonged exposure not likely to cause significant skin irritation. May cause drying or flaking of skin.

SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD50 for skin absorption in rabbits is 20,000 mg/kg.

INGESTION: Single dose oral toxicity is low. The oral LD50 for rats is >6000 mg/kg. No hazards anticipated from ingestion incidental to industrial exposure.

INHALATION: A single brief (minutes) inhalation exposure is not likely to cause adverse effects. Signs and symptoms of excessive exposure may cause irritation to upper respiratory tract. Excessive exposure may cause anesthetic or narcotic effects (headache, dizziness, drowsiness).

SYSTEMIC & OTHER EFFECTS: Repeated excessive exposures to high amounts may cause anesthetic or narcotic effect. Repeated excessive exposures to smaller amounts may cause irritation to eyes and respiratory tract. Did not cause cancer in long term animal studies. Has been shown to be negative in some in vitro ("Test Tube") mutagenicity tests and positive in others.

7. FIRST AID:

EYES: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

SKIN: Wash off in flowing water or shower.

INGESTION: Induce vomiting if large amounts are ingested. Consult medical.

INHALATION: remove to fresh air. If not breathing, give mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. Call a physician.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.



REPORT NUMBER 971

MSDS NO: DZ00259

EFFECTIVE: 11/10/98

TU-K INDUSTRIES, INC.
MATERIAL SAFETY DATA SHEET

PAGE: 003

CHEMTREK: (800) 424-9300

PRODUCT: TJ-BLEND #4 (Proprietary Mixture) Continued

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(s): OSHA PEL and ACGIH TLV are 750 ppm TWA; 1000 ppm STEL.

VENTILATION: Control airborne concentrations below the exposure guideline. Use only with adequate ventilation. Local exhaust ventilation may be necessary. Lethal concentrations may exist in areas with poor ventilation.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. For emergency and other conditions where the exposure guideline may be greatly exceeded, use an approved positive pressure self-contained breathing apparatus or positive pressure airline with auxiliary self-contained air supply.

SKIN PROTECTION: For brief contact, no precautions other than clean body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.

EYE PROTECTION: Use chemical goggles. If vapor exposure causes eye discomfort, use a full-face, supplied-air respirator.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Practice reasonable care to avoid eye and skin contact and to avoid breathing vapors. No smoking area for handling and storage. Refer to the acetone product data bulletin.

MSDS STATUS: Canadian regulatory information revised.

REGULATORY INFORMATION: (Not meant to be all-inclusive-selected regulations represented).

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See MSD Sheet for health and safety information.

U.S. REGULATIONS

SARA 313 INFORMATION: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
ACETONE	000067-64-1	85.2 %

REPORT NUMBER 971

TU-K INDUSTRIES, INC.
MATERIAL SAFETY DATA SHEET

PAGE: 004

MSDS NO: DZ00259

EFFECTIVE: 11/10/98

CHEMTREK: (800) 424-9300

PRODUCT: TJ-BLEND#4 (Proprietary Mixture) Continued

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- An immediate health hazard
- A fire hazard

NOTICE

TU-K INDUSTRIES, INC. EXPRESSLY DISCLAIMS ALL EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT OR INFORMATION PROVIDED HEREIN, AND SHALL UNDER NO CIRCUMSTANCES BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED FROM THE MANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES. WHILE THE INFORMATION IS BELIEVED TO BE ACCURATE, TU-K MAKES NO REPRESENTATIONS AS TO ITS ACCURACY OF SUFFICIENCY. CONDITIONS OF USE ARE BEYOND TU-K'S CONTROL AND THEREFORE USERS DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES AND THEY ASSUME ALL RISKS OF THEIR USE, HANDLING, AND DISPOSAL OF THE PRODUCT, OR FROM THE PUBLICATION OR USE OF, OR RELIANCE UPON, INFORMATION CONTAINED HEREIN. THIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER PROCESS.

*****E N D O F M S D S*****

MFG. NAME: TU-K INDUSTRIES, INC., 5702 FIRESTONE PLACE, SOUTH GATE, CA 90280

Jeannette Rozzotto
JEANNETTE ROZZOTTO PRES.

pg. 2

POTENTIAL HEALTH EFFECTS:

EMERGENCY OVERVIEW: DANGER! This product is extremely flammable. It is a volatile substance, and its vapors form explosive mixtures with air. It is a dangerous fire hazard when exposed to heat, sparks, open flame, and oxidants. Harmful if swallowed. Harmful or fatal if inhaled. Causes irritation to eyes and skin.

3. HAZARDOUS IDENTIFICATION

Trace impurities and additional material names not listed above may also appear in the Regulatory Information Section (Section 15) towards the end of the MSDS. These materials may be listed for local "Right to Know" compliance and for other reasons.

INGREDIENTS	CAS NUMBERS	Percent
Acetone	000067-64-1	100

2. COMPOSITION/INFORMATION ON INGREDIENTS

MSDS PREPARED BY:

HCI Technical Resource Center
St. Louis, MO 63111
(314) 353-6500

PRODUCT NAME:

Acetone
00045

HCI PRODUCT ID NUMBER:

SYNONYMS: Dimethyl ketone; 2-Propanone; Dimethylketal

CHEMICAL FAMILY NAME: Ketone, aliphatic

NFPA HAZARD RATINGS(H-F-R) : 2-3-0

HMS HAZARD RATINGS(H-F-R) : 2-3-0

DISTRIBUTOR:

HCI USA Distribution Companies
IN CASE OF EMERGENCY CALL: 1-800-424-9300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL SAFETY DATA SHEET



MATERIAL SAFETY DATA SHEET

Page 2 of 8

SKIN CONTACT: Contact with the skin can cause drying, irritation, and dermatitis.

SKIN ABSORPTION: No data available

EYES: Contact with the eyes may cause irritation.

INGESTION: Ingestion may cause gastrointestinal irritation, nausea, vomiting, diarrhea, drowsiness, and loss of consciousness.

INHALATION: Inhalation of low concentrations may cause mild irritation of the eyes, nose, and throat.

Excessive inhalation may produce symptoms of central nervous system depression from lightheadedness, nausea, vomiting, unconsciousness, and death.

Repeated overexposure to high concentrations may result in damage to the liver, kidney, or central nervous system.

MEDICAL CONDITIONS AGGRAVATED:

No data available

WARNING: Contains chemicals known to the State of California to cause cancer.

Components found on one of the OSHA designated carcinogen lists are listed below.

INGREDIENT	NTP	IARC	OSHA
Acetone	N	N	N

4. FIRST AID MEASURES

SKIN CONTACT: Remove contaminated clothing and shoes.
Wash exposed areas with soap and water.
Call a physician if irritation persists.

EYE CONTACT: Flush eyes with water for at least 15 minutes.
Call a physician if irritation persists.

INGESTION: Call a physician immediately!
Only induce vomiting if directed by a physician.
If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs.

INHALATION: Remove to fresh air.
If breathing has stopped, give artificial respiration.
Get medical attention.

NOTES TO PHYSICIAN: No data available

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSIVE PROPERTIES

MATERIAL SAFETY DATA SHEET

Page 3 of 8

FLASH POINT:	-4 °F
FLASH POINT:	-20 °C
FLASH POINT METHOD:	TCC
LOWER FLAMMABILITY LIMIT:	2.5
UPPER FLAMMABILITY LIMIT:	13.0
AUTOIGNITION TEMPERATURE:	869 °F, 464.95 °C
FLAMMABILITY CLASSIFICATION:	IB
EXTING. MEDIA:	Use water spray, carbon dioxide, dry chemical, or foam.
FIRE FIGHTING :	Vapors are heavier than air and may travel a considerable distance to a source of ignition and flash back. Vapor-air mixtures are explosive. Consider evacuation downwind. If possible, move containers from fire area. Apply cooling water to sides of containers ensuring that you stay away from the ends of tanks. Evacuate immediately if tanks are discolored or if rising sound is emitted from tank. For massive fire use unmanned hose holders or monitor nozzles. Water may be ineffective if flow of flammable liquid is not stopped.
PROTECTIVE EQUIPMENT:	Use NIOSH-approved self-contained breathing apparatus and complete protective clothing when fighting chemical fires.
FIRE HAZARDS:	Containers exposed to extreme heat may rupture. This material may produce a floating fire hazard. A static ignition hazard may result from handling and use. Electrically bond and ground all containers and equipment before transfer or use of material. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS:	Eliminate all sources of ignition. Contain spill and ventilate area. Absorb on inert media and containerize for disposal using non-sparking tools.
LARGE SPILLS:	Eliminate all sources of ignition. Contain spill and ventilate area. Permit only trained personnel wearing full protective equipment to enter the spill area. Collect the spill in a waste container or remove with a vacuum truck. Prevent spill from entering natural watercourses.

PROTECTIVE EQUIPMENT\ SPILL-RELEASE INSTRUCTIONS:

Wear complete protective clothing when cleaning up chemical spills. Spills and releases may have to be reported to federal and/or local authorities. See the Regulatory Information section (section 14) regarding reporting requirements.

7. HANDLING AND STORAGE

MATERIAL SAFETY DATA SHEET

Page 4 of 8

HANDLING: Avoid contact with skin, eyes, and clothing.
 Avoid breathing product vapors and mists.
 Do not take internally.
 Wash thoroughly after handling this material.
 Use this material only with adequate ventilation.

STORAGE : Keep container closed when not in use.
 This material should be stored at moderate temperatures. This material should be stored in well ventilated areas. Keep away from heat, sparks, and open flames. Containers should be grounded. Do not store above 49 C (120 F). Do not flame cut, braze, or weld containers. Store in cool, dry place. The empty container is hazardous.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Use a ventilation system to maintain atmospheric concentrations below published exposure limits. Explosion-proof fans should be used in a mechanical-type ventilation system.

PERSONAL PROTECTIVE EQUIPMENT

SKIN: Wear protective gloves made of neoprene or rubber.

EYE : Wear chemical safety goggles.

RESPIRATORY: If engineering controls do not maintain airborne concentrations below recommended limits, use a NIOSH-approved respirator for organic vapors.

OTHER: Emergency showers, eye-wash stations, and fire blankets should be accessible. Wear protective clothing.

EXPOSURE GUIDELINES :

INGREDIENT	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Acetone	750 PPM	1000 PPM	750 PPM	1000 PPM

See 29 CFR 1910.1000 (D) (2) and ACGIH "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices" booklet (Appendix C) for the determination of exposure limits for mixtures. Consult an industrial hygienist or similar professional to confirm that the calculated exposure limits are appropriate.

9. PHYSICAL AND CHEMICAL PROPERTIES

MATERIAL SAFETY DATA SHEET

Page 5 of 8

PHYSICAL STATE: Liquid
APPEARANCE Clear, colorless
ODOR: Minty, sweet
SPECIFIC GRAVITY: 0.79 @ 68F
SOLUBILITY (IN WATER): Soluble
BOILING POINT (°F): 133
BOILING POINT (°C): 56.11
FREEZING POINT (°F): -139
FREEZING POINT (°C): -94.99
MELTING POINT (°F): -139
MELTING POINT (°C): -94.99
PRODUCT pH : ~7
VAPOR PRESSURE: 181 mmHg @ 20C
VAPOR DENSITY: 2.0
EVAPORATION RATE: 6
% VOLATILES: 100

10. STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID: Keep away from heat, sparks, and open flames.
INCOMPATIBILITY: Acids, amines, halogens, halo carbons, oxidizing materials, metal salts, peroxides, combustible materials, alkalis
DECOMPOSITION: Toxic oxides of carbon
POLYMERIZATION WILL OCCUR: no

11. TOXICOLOGICAL INFORMATION

IMMEDIATE EFFECTS: May cause irritation to skin and eyes. Harmful if swallowed. Harmful or fatal if inhaled. May cause central nervous system depression. IRRITATION DATA: 500 ppm eyes-human; 395 mg open skin-rabbit mild; 500 mg/24 hours skin-rabbit mild; 20 mg eyes-rabbit severe; 20 mg/24 hours eyes-rabbit moderate; TOXICITY DATA: 5800 mg/kg oral rat LD50; 50100 mg/m³/8 hours inhalation-rat LC50; 5500 mg/kg intravenous-rat LD50; 3 gm/kg oral-mouse LD50; 44 gm/m³/4 hours inhalation-mouse LC50; 1297 mg/kg intraperitoneal-mouse LD50; 5340 mg/kg oral-rabbit LD50; <9400 ul/kg skin-guinea pig LD50; Biological Action Level: 270 mg/L in urine at end of workshift = excessive exposure to acetone.

CARCINOGENICITY: CARCINOGEN STATUS: ACGIH: A4 -Not Classifiable as a Human Carcinogen

MATERIAL SAFETY DATA SHEET

MUTAGENICITY: MUTAGENIC DATA: Sex chromosome loss and non-disjunction - *Saccharomyes cerevisiae* 47600 ppm; cytogenic analysis - hamster fibroblast 40 gm/L

EPIDEMIOLOGY: No data available

TERATOGENICITY: No data available

REPRODUCTIVITY: REPRODUCTIVE EFFECTS: 273 gm/kg oral (rat) TDL₀ 13 week(s) male; 31500 ug/m³ inhalation (mammal) TCL₀/24 hour(s) 1-13 day(s) pregnant female continuous

NEURTOXICITY: No data available

12. ECOLOGICAL INFORMATION

This product is highly toxic to aquatic life. ENVIRONMENTAL IMPACT RATING: 4 (0-4; 4 most hazardous); ECOTOXICITY DATA: FISH TOXICITY: 4 ug/L 96 hr LC50 (Mortality) Harlequinfish, red rasbora (*Rasbora heteromorpha*); INVERTEBRATE TOXICITY: 35 ug/L 48 hr EC50 (Immobilization) Water flea (*Daphnia pulex*); ALGAL TOXICITY: <14 ug/L 11-14 hr MATC (Growth) Red algae (*Champia parvula*); OTHER TOXICITY: 0.21 ug/L 96 week LC50 (Mortality) Frog (*Rana hexadactyla*); Biochemical Oxygen Demand (BOD5 lb/lb; acclimated bacteria): 0.31-1.63; Chemical Oxygen Demand (COD lb/lb): 1.12-2.07; Octanol/water partition coefficient: 0.58; FATE AND TRANSPORT: BIOCONCENTRATION: 100000 ug/L 32 hr BCF (Residue) Fathead Minnow (*Pimephales promelas*) 4.3 ug/L

13. DISPOSAL CONSIDERATIONS

RCRA WASTE: Yes

RCRA ID NUMBER: D001, U002

VOC CONTENT (lbs/gal): 6.55 @ 77 F

Waste Disposal Procedure: Discharge, treatment, or disposal may be subject to Federal, State, or Local laws. State and Local regulations and restrictions are complex and may differ from Federal disposal regulation. The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA Classification and the proper disposal method.

14. TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Acetone
D.O.T. HAZARD CLASS: 3 - Flammable and Combustible liquid
DOT ID NUMBER: UN 1090
DOT PACKING GROUP: II
DOT RQ (lbs): 5000
CONTRIBUTING CHEMICAL: (Acetone)
OTHER: Labels required: Flammable liquid
IMDG HAZARD CLASS: 3.1 - Low flashpoint flammable liquids
ICAO HAZARD CLASS: 3.1 Low Flash Pts Group (0 F)

15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): yes
SECTION 311/312 HAZARD CLASS: Fire hazard, immediate (acute) health hazard
WHMIS CLASSIFICATION (CANADA): Class B/Division 2
FOREIGN INVENTORY: Canadian DSL (Domestic Substances List)
EINECS (European Inventory of Existing Commercial Chemical Substances)

ADDITIONAL REGULATORY INFORMATION

WARNING: Contains chemicals known to the State of California to cause cancer. (Acetaldehyde, Formaldehyde, Benzene)
MASSACHUSETTS SUBSTANCE LIST: Acetone; Acetaldehyde; Formaldehyde; Benzene
NEW JERSEY SUBSTANCE LIST: Acetone
PENNSYLVANIA HAZARDOUS SUBSTANCE LIST: Acetone

SARA TITLE III (Superfund Amendments and Reauthorization Act):

INGREDIENTS	CAS NUMBERS	Section 313	Section 302
Acetone	000067-64-1	N	N

This product may contain trace amounts of Benzene (CAS# 71-43-2).
This product may contain trace amounts of Acetaldehyde (CAS# 75-07-0) and Formaldehyde (CAS# 50-0-0).

16. OTHER INFORMATION

MATERIAL SAFETY DATA SHEET

CREATION DATE: 01/17/1997

REVISION DATE: 08/10/1999

DISCLAIMER:

The information herein is presented in good faith and is believed to be correct as of the date hereof. However, HCI makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature with respect to the product or to the information herein is made hereunder. HCI shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication, or use of, or reliance upon the information contained herein.



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD DELETE REVISED 1 Page _____ of _____ 2

FACILITY ID# 3 0 0 3 5 BUSINESS NAME AARON THOMAS COMPANY INC.

I. FACILITY INFORMATION

CHEMICAL LOCATION 4
7421 CHAPMAN AVE. GARDEN GROVE CA. 92841
CONFIDENTIAL LOCATION Yes No 5 MAP # 1 6 GRID # I-8 7
EPCRA

II. CHEMICAL INFORMATION

CHEMICAL NAME ISOPROPYL ALCOHOL WASTE Yes No 8 TRADE SECRET Yes No 11
* If EPCRA see instructions

COMMON NAME ISOPROPANOL 9 An EHS Chemical Yes No 12
*If EHS is "Yes", all amounts must be LBS

CAS # MIXTURE 10 FIRE CODE HAZARD CLASSES (supplied by GGFD) F I B 13

TYPE (Check one item only) a. PURE b. MIXTURE c. WASTE 14 RADIOACTIVE Yes No 15 CURIES 16

PHYSICAL STATE (Check one item only) a. SOLID b. LIQUID c. GAS 17 FED HAZARD CATEGORIES a. FIRE b. REACTIVE c. PRESSURE RELEASE 18
 d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 165 GAL. 19 MAXIMUM DAILY AMOUNT 165 GAL. 20 ANNUAL WASTE AMOUNT 0 21 STATE WASTE CODE 22

UNITS a. GALLONS b. CUBIC FEET c. POUNDS d. TONS 23 DAYS ON SITE 365 24 LARGEST CONTAINER 55 GAL 25
*If EHS, amount must be in pounds.

STORAGE CONTAINER (Check all that apply) a. ABOVEGROUND TANK b. UNDERGROUND TANK c. TANK INSIDE BLDG d. STEEL DRUM e. PLASTIC DRUM f. NONMETALLIC DRUM g. METAL CONTAINER h. CARBOY i. VAT j. FIBER DRUM k. BAG(S) l. BOX(S) m. CYLINDER n. GLASS CONTAINER o. PLASTIC CONTAINER p. IN MACH OR EQUIP q. TANK WAGON r. RAIL CAR s. TOTE BIN t. OTHER _____ 26

STORAGE PRESSURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT 27

STORAGE TEMPERATURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC 28

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
70	ISOPROPYL ALCOHOL 70%	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
30	WATER	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

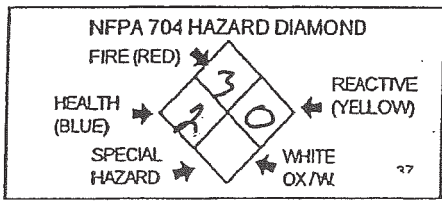
PLACARDING INFORMATION

UNDOT #. 1219 33
Refer to shipping papers or MSDS

DOT HAZARD CLASS 3 34
Refer to shipping papers or MSDS

EPCRA YES NO 35

X _____ 36
If EPCRA, Please Sign Here



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

001 06/01/93 ISOPROPYL ALCOHOL, 70%

PRODUCT IDENTIFICATION

PRODUCT NAME: ISOPROPYL ALCOHOL, 70%
MSDS #: P14625VS
DATE ISSUED: 11/04/91
ISSUED BY: 008925

MANUFACTURER'S MSDS

BE SAFE
READ OUR PRODUCT
SAFETY INFORMATION
...AND
PASS IT ON

(PRODUCT LIABILITY LAW
REQUIRES IT)

ACUTE HEALTH* FIRE REACTIVITY
2 3 0

HAZARD RATING
LEAST - 0
SLIGHT - 1
MODERATE - 2
HIGH - 3
EXTREME - 4

*For acute and chronic health effects refer to the discussion in Section III

SECTION I NAME

PRODUCT: ISOPROPYL ALCOHOL, 70%
CHEMICAL NAME: IPA, ISOPROPANOL, 2-PROPANOL
CHEMICAL FAMILY: ALCOHOL

SHELL CODE: 31122

SECTION II-A PRODUCT/INGREDIENT

Table with 3 columns: NO., COMPOSITION, CAS NUMBER, PERCENT. Rows include ISOPROPYL ALCOHOL, 70% (MIXTURE, 100%), ISOPROPYL ALCOHOL (67-63-0, 70%), and WATER (7732-18-5, 30%).

SECTION II-B ACUTE TOXICITY DATA

NO.	ACUTE ORAL LD50	ACUTE DERMAL LD50	ACUTE INHALATION LC50
1	5840 MG/KG (RAT)	13000 MG/KG (RABBIT)	12000 PPM (RAT) 8 HRS

SECTION III HEALTH INFORMATION

THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

EYE CONTACT
MODERATELY IRRITATING TO THE EYES.

SKIN CONTACT
MILDLY IRRITATING TO THE SKIN.

INHALATION
MAY CAUSE MILD IRRITATION TO THE NOSE, THROAT AND RESPIRATORY TRACT AND MAY RESULT IN CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

INGESTION
IRRITATING TO THE GASTROINTESTINAL TRACT, CAUSING ABDOMINAL PAIN AND VOMITING, SOMETIMES BLOODY. INGESTION MAY CAUSE CNS DEPRESSION, LOW BLOOD PRESSURE, RAPID HEART BEAT AND LIVER DAMAGE.

SIGNS AND SYMPTOMS
IRRITATION AS NOTED ABOVE. EARLY TO MODERATE CNS (CENTRAL NERVOUS SYSTEM) DEPRESSION MAY BE EVIDENCED BY GIDDINESS, HEADACHE, DIZZINESS AND NAUSEA; IN EXTREME CASES, UNCONSCIOUSNESS, RESPIRATORY DEPRESSION AND DEATH MAY OCCUR. LIVER DAMAGE MAY BE EVIDENCED BY LOSS OF APPETITE, JAUNDICE (YELLOWISH SKIN COLOR) AND SOMETIMES PAIN IN THE UPPER ABDOMEN ON THE RIGHT SIDE.

AGGRAVATED MEDICAL CONDITIONS
PREEXISTING EYE, SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED LIVER FUNCTION FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

SEE SECTION VI FOR ADDITIONAL HEALTH INFORMATION.

SECTION IV OCCUPATIONAL EXPOSURE LIMITS

NO.	OSHA		ACGIH		OTHER
	PEL/TWA	PEL/CEILING	TLV/TWA	TLV/STEL	
1	400 PPM		400 PPM	500 PPM	500 PPM*

FOR COMPONENT 1, 50% ODOR RECOGNITION THRESHOLD IS 7.5 PPM.
*OSHA PEL/STEL.

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

SKIN CONTACT
FLUSH SKIN WITH WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

INHALATION
REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET

MEDICAL ATTENTION.

INGESTION

DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR VERY DROWSY. OTHERWISE, GIVE NO MORE THAN 2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING 30CC (2 TABLESPOONS) SYRUP OF IPECAC.* IF IPECAC IS UNAVAILABLE, GIVE 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF VICTIM'S THROAT. KEEP VICTIM'S HEAD BELOW HIPS WHILE VOMITING. GET MEDICAL ATTENTION.

NOTE TO PHYSICIAN

*IF VICTIM IS A CHILD, GIVE NO MORE THAN 1 GLASS OF WATER AND 15CC (1 TABLESPOON) SYRUP OF IPECAC. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED FOLLOWING INTUBATION WITH A CUFFED ENDOTRACHEAL TUBE.

SECTION VI SUPPLEMENTAL HEALTH INFORMATION

IPA: IN RESPONSE TO A TSCA TEST RULE, SEVERAL STUDIES OF IPA HAVE NOW BEEN COMPLETED. THE STUDIES AND THEIR RESULTS ARE AS FOLLOWS 1) BOTH MUTAGENICITY STUDIES, THE MOUSE MICRONUCLEUS AND CHD ASSAYS, WERE NEGATIVE. 2) RAT AND RABBIT ORAL TERATOGENICITY AND DEVELOPMENTAL TOXICOLOGY: A) THERE WAS NO EVIDENCE THAT IPA CAUSED TERATOGENICITY IN RATS OR RABBITS. B) DEVELOPMENTAL TOXICITY WAS SEEN IN RATS AT 1200 MG/KG (EVIDENCED BY DECREASED BODY WEIGHT**) WHILE NO DEVELOPMENTAL TOXICITY WAS SEEN IN THE RABBIT STUDY. FOR RATS, THE NOAEL WAS 400 MG/KG; FOR RABBITS, 480 MG/KG. THIS WORK ALSO IDENTIFIED PREGNANT RABBITS TO BE APPROXIMATELY EIGHT TIMES MORE SENSITIVE TO IPA'S LETHAL EFFECTS THAN NON-PREGNANT RABBITS**.

OTHER TEST RULE RELATED STUDIES: 3) RAT ORAL REPRODUCTIVE TOXICITY: IN THE RAT REPRODUCTIVE TOXICITY STUDY, THE NOAEL FOR REPRODUCTION INDICES WAS 1000 MG/KG. HOWEVER, THERE WAS A MARKED INCREASE IN POST - WEANING PUP MORTALITY AT THIS LEVEL**; THE NOAEL FOR THIS EFFECT WAS 500 MG/KG. ALSO, THE NOAEL FOR RENAL FEMALE BODY WEIGHT DECREASE WAS 100 MG/KG. 4) IN RAT INHALATION NEUROTOXICITY AND ORAL DEVELOPMENTAL NEUROTOXICITY STUDIES, THERE WAS NO EVIDENCE THAT IPA CAUSED NEUROTOXICITY IN ADULTS (MAX DOSE 5000 PPM) OR OFFSPRING (MAX DOSE 1200 MG/KG). 5) SUBCHRONIC RAT AND MOUSE INHALATION TOXICITY: THE SUBCHRONIC NOAEL WAS 500 PPM BASED ON CLINICAL SIGNS OF CNS DEPRESSION (BOTH SPECIES) AND INCREASED BODY WEIGHT AND BLOOD EFFECTS (RAT ONLY) SEEN AT 1500 PPM. (NOTE: THE INFORMATION TAGGED BY "***" ABOVE WERE SUBMITTED TO EPA UNDER THE REQUIREMENTS OF TSCA 8(E).)

SECTION VII PHYSICAL DATA

BOILING POINT: 190* (DEG F)

SPECIFIC GRAVITY: 0.85 (H2O=1)

VAPOR PRESSURE: 25* @ 68 DEG F (MM HG)

MELTING POINT: NOT AVAILABLE (DEG F)

SOLUBILITY: COMPLETE (IN WATER)

VAPOR DENSITY: 1.6* (AIR=1)

EVAPORATION RATE (N-BUTYL ACETATE = 1): 0.7

ESTIMATED

APPEARANCE AND ODOR: COLORLESS, MOBILE LIQUID. MILD ODOR.

SECTION VIII FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD:
APX. 77 DEG F -TCC

FLAMMABLE LIMITS /% VOLUME IN AIR
LOWER: 2 UPPER: 12

EXTINGUISHING MEDIA

USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL OR CO2.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

WARNING. FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

SECTION IX REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:

AVOID HEAT, SPARKS, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION X EMPLOYEE PROTECTION

RESPIRATORY PROTECTION

IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SEC. IV) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

OSHA HAS ESTABLISHED TRANSITIONAL OCCUPATIONAL EXPOSURE LIMITS FOR THIS PRODUCT AND/OR COMPONENTS OF THIS PRODUCT. REFER TO 29 CFR 1910.1000 FOR THESE TRANSITIONAL LIMITS AND REQUIREMENTS FOR MEETING THESE LIMITS.

PROTECTIVE CLOTHING

AVOID CONTACT WITH EYES. WEAR CHEMICAL GOGGLES IF THERE IS LIKELIHOOD OF CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WEAR CHEMICAL-RESISTANT GLOVES AND OTHER CLOTHING AS REQUIRED TO MINIMIZE CONTACT. TEST DATA FROM PUBLISHED LITERATURE AND/OR GLOVE AND CLOTHING MANUFACTURERS INDICATE THE BEST PROTECTION IS PROVIDED BY NITRILE, NEOPRENE AND NATURAL RUBBER GLOVES.

ADDITIONAL PROTECTIVE MEASURES

USE EXPLOSION-PROOF VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS. EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR EMERGENCY USE.

SECTION XI ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES

WARNING. FLAMMABLE. ELIMINATE ALL IGNITION SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. *** LARGE SPILLS *** EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS AS ABOVE. *** SMALL SPILLS *** TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

SECTION XII SPECIAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS AND FLAME. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE EVEN LIQUID PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES AND TURN OFF OTHER SOURCES OF IGNITION PRIOR TO USE AND UNTIL ALL VAPORS ARE GONE.

VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM THE HANDLING SITE; FLASH-FIRE CAN RESULT. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION. CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, WELD OR PERFORM SIMILAR OPERATIONS ON OR NEAR CONTAINERS. DO NOT PRESSURIZE DRUM CONTAINERS TO EMPTY THEM. STATIC ELECTRICITY MAY ACCUMULATE AND CREATE A FIRE HAZARD. GROUND FIXED EQUIPMENT. BOND AND GROUND TRANSFER CONTAINERS AND EQUIPMENT.

WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE. AIR-DRY CONTAMINATED CLOTHING IN A WELL VENTILATED AREA BEFORE LAUNDERING.

DO NOT STORE OR HANDLE IN ALUMINUM EQUIPMENT AT TEMPERATURES ABOVE 120 DEG. F.

SECTION XIII TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATION:
FLAMMABLE LIQUID

D.O.T. PROPER SHIPPING NAME:
ISOPROPANOL

OTHER REQUIREMENTS:
DOT ID NUMBER = UN 1219 - GUIDE SHEET 26

SECTION XIV OTHER REGULATORY CONTROLS

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.

IN ACCORDANCE WITH SARA TITLE III, SECTION 313, THE ENVIRONMENTAL DATA SHEET (EDS) SHOULD ALWAYS BE COPIED AND SENT WITH THE MSDS.

SECTION XV STATE REGULATORY INFORMATION

THE FOLLOWING CHEMICALS ARE SPECIFICALLY LISTED BY INDIVIDUAL STATES; OTHER PRODUCT SPECIFIC HEALTH AND SAFETY DATA IN OTHER SECTIONS OF THE MSDS MAY ALSO BE APPLICABLE FOR STATE REQUIREMENTS. FOR DETAILS ON YOUR REGULATORY REQUIREMENTS YOU SHOULD CONTACT THE APPROPRIATE AGENCY IN YOUR STATE.

SURROUNDING THE RELEASE AND CLEANUP DETERMINE REPORTABILITY).

SECTION IV RCRA INFORMATION

UNDER EPA-RACA (40 CFR 261.21), IF THIS PRODUCT BECOMES A WASTE MATERIAL, IT WOULD BE IGNITABLE HAZARDOUS WASTE, HAZARDOUS WASTE NUMBER D001. REFER TO LATEST EPA OR STATE REGULATIONS REGARDING PROPER DISPOSAL.

----- NOTICE -----

** VAN WATERS & ROGERS INC. ("VW&R") EXPRESSLY DISCLAIMS ALL EXPRESS OR

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE,

WITH RESPECT TO THE PRODUCT OR INFORMATION PROVIDED HEREIN, AND SHALL UNDER

NO CIRCUMSTANCES BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED FROM THE MANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES. WHILE THE INFORMATION IS BELIEVED TO BE ACCURATE, VW&R MAKES NO REPRESENTATIONS AS TO ITS ACCURACY OR SUFFICIENCY. CONDITIONS OF USE ARE BEYOND VW&RS CONTROL AND THEREFORE USERS ARE RESPONSIBLE TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES AND THEY ASSUME ALL RISKS OF THEIR USE, HANDLING, AND DISPOSAL OF THE PRODUCT, OR FROM THE PUBLICATION OR USE OF, OR RELIANCE UPON, INFORMATION CONTAINED HEREIN. THIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER PROCESS.

* * * E N D O F M S D S * * *

Upper Explosive Limit: 12.7%
Extinguishing Media: CO2, DRY CHEM, ALCOHOL FOAM
Special Fire Fighting Proc: FIRE FIGHTERS SHOULD WEAR PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.
Unusual Fire And Expl Hazrds: FLAMMABLE LIQUID; MODERATE EXPLOSION HAZARD WHEN EXPOSED TO HEAT OR FLAMES.

=====
Reactivity Data
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Stability: YES
Cond To Avoid (Stability): HIGH HEAT AND IGNITION SOURCES SUCH AS OPEN FLAME OR SPARKS.
Materials To Avoid: STRONG OXIDIZERS
Hazardous Decomp Products: CARBON MONOXIDE, CARBON DIOXIDE
Hazardous Poly Occur: NO

=====
Health Hazard Data
=====

LD50-LC50 Mixture: ORAL RAT LD50: 5840 MG/KG, RABBIT: 13G/KG
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: YES
Health Haz Acute And Chronic: ACUTE: IRRITATION OF EYES, SKIN AND RESPIRATORY TRACT; CNS EFFECTS, DROWSINESS, HEADACHE, STAGGERING, DRYING OF SKIN. INGESTION MAY CAUSE NAUSEA, G.I. TRACT PAIN, VOMITING & DIARRHEA, UNCONSCIOUSNESS AND DEATH. CHRONIC: CNS DEPRESSION.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Signs/Symptoms Of Overexp: IRRITATION OF EYES, NOSE, THROAT; DROWSINESS; DIZZINESS; HEADACHE; DRY CRACKING SKIN; GI CRAMPS; NAUSEA; DIARRHEA.
Med Cond Aggravated By Exp: EYE, SKIN AND RESPIRATORY DISORDERS.
Emergency/First Aid Proc: SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH REMOVE TO FRESH AIR AT ONCE. RESUSCITATE IF BREATHING STOPPED. GET MEDICAL ATTENTION. EYE: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. INGESTION: GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING. MED: GIVE GASTRIC LAVAGE.

=====
Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: ELIM IGNIT SOURCES. VENT AREA. STOP LEAK W/O RISK. WEAR SCBA. ABSORB SM QTY W/INERT MATL AND PLACE IN CLOSED DISPOSAL DRUM. DIKE LG QTY AND PUMP/VACUUM INTO CLOSED DRUM FOR RECLAIM/DISPOSAL.
Waste Disposal Method: INCINERATE OR DISPOSE OF I/A/W ALL LOCAL, STATE & FEDERAL REGULATIONS.
Precautions-Handling/Storing: STORE IN COOL, DRY, WELL VENTILATED AREA AWAY FROM HEAT & IGNIT SOURCES. KEEP CONTAIN CLOSED WHEN NOT IN USE. PROTECT FM DAMAGE. DO NOT INGEST/INHAL.
Other Precautions: DO NOT EAT OR SMOKE IN AREA OF USE OR STORAGE. AVOID SKIN/EYE CONTACT. LAUNDRER CONTAMINATED CLTHG BEFORE REUSE.

=====
Control Measures
=====

Respiratory Protection: USE NIOSH APPROVED RESPIRATOR FOR ORGANIC VAPORS.
Ventilation: MECHANICAL REQD, LOCAL RECOMMENDED FOR CLOSED AREAS.
Protective Gloves: RUBBER
Eye Protection: CHEM SPLASH GOGGLES
Other Protective Equipment: AS REQUIRED TO AVOID SKIN CONTACT; EYEWASH, SAFETY SHOWER.
Work Hygienic Practices: AVOID CONTACT WITH EYES AND SKIN; DO NOT BREATHE VAPORS/MIST; NO SMOKING IN WORK AREA.

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Transportation Data
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Trans Data Review Date: 93104
DOT PSN Code: HWY
DOT Proper Shipping Name: ISOPROPANOL OR ISOPROPYL ALCOHOL
DOT Class: 3
DOT ID Number: UN1219
DOT Pack Group: II
DOT Label: FLAMMABLE LIQUID
IMO PSN Code: ITA
IMO Proper Shipping Name: ISOPROPANOL
IMO Regulations Page Number: 3244
IMO UN Number: 1219
IMO UN Class: 3.2
IMO Subsidiary Risk Label: -
IATA PSN Code: ONH
IATA UN ID Number: 1219
IATA Proper Shipping Name: ISOPROPANOL
IATA UN Class: 3
IATA Label: FLAMMABLE LIQUID
AFI PSN Code: ONH
AFI Prop. Shipping Name: ISOPROPANOL
AFI Class: 3
AFI ID Number: UN1219
AFI Pack Group: II
AFI Basic Pac Ref: 7-7
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=====
Disposal Data
=====

=====
Label Data
=====

Label Required: YES
Technical Review Date: 14APR93
Label Status: F
Common Name: ISOPROPYL ALCOHOL (ISOPROPANOL)
Chronic Hazard: YES
Signal Word: DANGER!
Acute Health Hazard-Moderate: X
Contact Hazard-Moderate: X
Fire Hazard-Severe: X
Reactivity Hazard-None: X
Special Hazard Precautions: ACUTE:IRRITATION OF EYES,SKIN AND RESPIRATORY TRACT; CNS EFFECTS, DROWSINESS, HEADACHE, STAGGERING, DRYING OF SKIN. INGESTION MAY CAUSE NAUSEA, G.I. TRACT PAIN, VOMITING & DIARRHEA, UNCONSCIOUSNESS AND DEATH. CHRONIC:CNS DEPRESSION. STORE IN COOL, DRY, WELL VENTILATED AREA AWAY FROM HEAT & IGNIT SOURCES. FIRST AID-SKIN:REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. APPLY SKIN CREAM. INHALATION:REMOVE TO FRESH AIR, RESUSCITATE IF BREATHING STOPPED. GET MEDICAL ATTENTION. EYE:FLUSH WITH WATER FOR 15 MINUTES, GET MEDICAL ATTENTION. INGESTION:GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING. MED: GIVE GASTRIC LAVAGE.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: VAN WATERS AND ROGERS INC., UNIVAR CORP.
Label Street: 1600 NORTON BLDG. 801 2ND AVENUE
Label City: SEATTLE
Label State: WA
Label Zip Code: 98104-1564
Label Country: US
Label Emergency Number: 206-447-5911/800-424-9300 (CHEMTREC)

VAN WATERS & ROGERS UNIVAR -- ISOPROPYL ALCOHOL (ISOPROPANOL) - ISOPROPYL ALCOHOL,
MATERIAL SAFETY DATA SHEET
NSN: 6810002270410
Manufacturer's CAGE: 87664
Part No. Indicator: A
Part Number/Trade Name: ISOPROPYL ALCOHOL (ISOPROPANOL)

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General Information
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Item Name: ISOPROPYL ALCOHOL, ACS
Company's Name: VAN WATERS AND ROGERS INC., UNIVAR CORP.
Company's Street: 1600 NORTON BLDG. 801 2ND AVENUE
Company's City: SEATTLE
Company's State: WA
Company's Country: US
Company's Zip Code: 98104-1564
Company's Emerg Ph #: 206-447-5911/800-424-9300 (CHEMTREC)
Company's Info Ph #: CALL LOCAL VAN WATERS & ROGERS
Record No. For Safety Entry: 024
Tot Safety Entries This Stk#: 025
Status: SE
Date MSDS Prepared: 01FEB90
Safety Data Review Date: 14APR93
Supply Item Manager: CX
MSDS Serial Number: BQKNH
Specification Number: O-C-265
Hazard Characteristic Code: F3
Unit Of Issue: GL
Unit Of Issue Container Qty: 1X1.0 GL
Type Of Container: BOTTLE
Net Unit Weight: 6.6 LBS

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: ISOPROPYL ALCOHOL (SARA III)
Ingredient Sequence Number: 01
Percent: >99
NIOSH (RTECS) Number: NT8050000
CAS Number: 67-63-0
OSHA PEL: 400 PPM/500 STEL
ACGIH TLV: 400 PPM/500STEL;9192
Other Recommended Limit: NONE SPECIFIED BY M.

=====
Physical/Chemical Characteristics
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Appearance And Odor: CLEAR COLORLESS LIQUID, ALCOHOLIC ODOR
Boiling Point: 181F, 83C
Melting Point: -128F/-89C
Vapor Pressure (MM Hg/70 F): 33 MMHG
Vapor Density (Air=1): 2.07
Specific Gravity: 0.79
Evaporation Rate And Ref: 3 (BUTYL ACETATE=1)
Solubility In Water: COMPLETE
Percent Volatiles By Volume: 100
Autoignition Temperature: 750F

=====
Fire and Explosion Hazard Data
=====

Flash Point: 53F, 11.7C
Flash Point Method: TCC
Lower Explosive Limit: 2

PRODUCT IDENTIFICATION

PRODUCT NAME: ISOPROPYL ALCOHOL, 70%

MSDS #: P14625VS

DATE ISSUED: 8/17/99

SUPERSEDES: 11/4/91

ISSUED BY: 008925

HAZARD RATING SYSTEMS:

THIS INFORMATION IS FOR PEOPLE TRAINED IN:
NATIONAL PAINT & COATINGS ASSOCIATION'S (NPCA)
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 704)
IDENTIFICATION OF THE FIRE HAZARDS OF MATERIALS

	NPCA-HMIS	NFPA 704	KEY
HEALTH	2	1	4 = SEVERE
FLAMMABILITY	3	3	3 = SERIOUS
REACTIVITY	0	0	2 = MODERATE
			1 = SLIGHT
			0 = MINIMAL

*For acute and chronic health effects refer to the discussion in Section III

SECTION I NAME

PRODUCT: ISOPROPYL ALCOHOL, 70%

CHEMICAL NAME: IPA, ISOPROPANOL, 2-PROPANOL

CHEMICAL FAMILY: ALCOHOL

SECTION II-A PRODUCT/INGREDIENT

NO.	COMPOSITION	CAS NUMBER	PERCENT
P	ISOPROPYL ALCOHOL, 70%	MIXTURE	100
1	ISOPROPYL ALCOHOL	67-63-0	70
2	WATER	7732-18-5	30

SECTION II-B ACUTE TOXICITY DATA

NO.	ACUTE ORAL LD50	ACUTE DERMAL LD50	ACUTE INHALATION LC50
1	5840 MG/KG (RAT)	13000 MG/KG (RABBIT)	12000 PPM (RAT) 8 HRS

SECTION III HEALTH INFORMATION

THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

EYE CONTACT
MODERATELY IRRITATING TO THE EYES.

SKIN CONTACT
MILDLY IRRITATING TO THE SKIN.

INHALATION
MAY CAUSE MILD IRRITATION TO THE NOSE, THROAT AND RESPIRATORY TRACT AND MAY RESULT IN CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

INGESTION
IRRITATING TO THE GASTROINTESTINAL TRACT, CAUSING ABDOMINAL PAIN AND VOMITING, SOMETIMES BLOODY. INGESTION MAY CAUSE CNS DEPRESSION, LOW BLOOD PRESSURE, RAPID HEART BEAT AND LIVER DAMAGE.

SIGNS AND SYMPTOMS
IRRITATION AS NOTED ABOVE. EARLY TO MODERATE CNS (CENTRAL NERVOUS SYSTEM) DEPRESSION MAY BE EVIDENCED BY GIDDINESS, HEADACHE, DIZZINESS AND NAUSEA; IN EXTREME CASES, UNCONSCIOUSNESS, RESPIRATORY DEPRESSION AND DEATH MAY OCCUR. LIVER DAMAGE MAY BE EVIDENCED BY LOSS OF APPETITE, JAUNDICE (YELLOWISH SKIN COLOR) AND SOMETIMES PAIN IN THE UPPER ABDOMEN ON THE RIGHT SIDE.

AGGRAVATED MEDICAL CONDITIONS
PREEXISTING EYE, SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED LIVER FUNCTION FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

SEE SECTION VI FOR ADDITIONAL HEALTH INFORMATION.

SECTION IV OCCUPATIONAL EXPOSURE LIMITS

NO.	OSHA		ACGIH	OTHER
	PEL/TWA	PEL/CEILING		
1	400 PPM		400 PPM	500 PPM*

FOR COMPONENT 1, 50% ODOR RECOGNITION THRESHOLD IS 7.5 PPM.

*OSHA PEL/STEL.

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

SKIN CONTACT
FLUSH SKIN WITH WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

INHALATION
REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

INGESTION
DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR VERY DROWSY. OTHERWISE, GIVE NO MORE THAN 2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING 30CC (2 TABLESPOONS) SYRUP OF IPECAC.* IF IPECAC IS UNAVAILABLE, GIVE 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF VICTIM'S THROAT. KEEP

VICTIM'S HEAD BELOW HIPS WHILE VOMITING. GET MEDICAL ATTENTION.

NOTE TO PHYSICIAN

*IF VICTIM IS A CHILD, GIVE NO MORE THAN 1 GLASS OF WATER AND 15CC (1 TABLESPOON) SYRUP OF IPECAC. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED FOLLOWING INTUBATION WITH A CUFFED ENDOTRACHEAL TUBE.

SECTION VI SUPPLEMENTAL HEALTH INFORMATION

IPA: IN RESPONSE TO A TSCA TEST RULE, SEVERAL STUDIES OF IPA HAVE NOW BEEN COMPLETED. THE STUDIES AND THEIR RESULTS ARE AS FOLLOWS 1) BOTH MUTAGENICITY STUDIES, THE MOUSE MICRONUCLEUS AND CHD ASSAYS, WERE NEGATIVE. 2) RAT AND RABBIT ORAL TERATOGENICITY AND DEVELOPMENTAL TOXICOLOGY: A) THERE WAS NO EVIDENCE THAT IPA CAUSED TERATOGENICITY IN RATS OR RABBITS. B) DEVELOPMENTAL TOXICITY WAS SEEN IN RATS AT 1200 MG/KG (EVIDENCED BY DECREASED BODY WEIGHT**) WHILE NO DEVELOPMENTAL TOXICITY WAS SEEN IN THE RABBIT STUDY. FOR RATS, THE NOAEL WAS 400 MG/KG; FOR RABBITS, 480 MG/KG. THIS WORK ALSO IDENTIFIED PREGNANT RABBITS TO BE APPROXIMATELY EIGHT TIMES MORE SENSITIVE TO IPA'S LETHAL EFFECTS THAN NON-PREGNANT RABBITS**.

OTHER TEST RULE RELATED STUDIES: 3) RAT ORAL REPRODUCTIVE TOXICITY: IN THE RAT REPRODUCTIVE TOXICITY STUDY, THE NOAEL FOR REPRODUCTION INDICES WAS 1000 MG/KG. HOWEVER, THERE WAS A MARKED INCREASE IN POST - WEANING PUP MORTALITY AT THIS LEVEL**; THE NOAEL FOR THIS EFFECT WAS 500 MG/KG. ALSO, THE NOAEL FOR PARENTAL FEMALE BODY WEIGHT DECREASE WAS 100 MG/KG. 4) IN RAT INHALATION NEUROTOXICITY AND ORAL DEVELOPMENTAL NEUROTOXICITY STUDIES, THERE WAS NO EVIDENCE THAT IPA CAUSED NEUROTOXICITY IN ADULTS (MAX DOSE 5000 PPM) OR OFFSPRING (MAX DOSE 1200 MG/KG). 5) SUBCHRONIC RAT AND MOUSE INHALATION TOXICITY: THE SUBCHRONIC NOAEL WAS 500 PPM BASED ON CLINICAL SIGNS OF CNS DEPRESSION (BOTH SPECIES) AND INCREASED BODY WEIGHT AND BLOOD EFFECTS (RAT ONLY) SEEN AT 1500 PPM. (NOTE: THE INFORMATION TAGGED BY "*" ABOVE WERE SUBMITTED TO EPA UNDER THE REQUIREMENTS OF TSCA 8(E).)

SECTION VII PHYSICAL DATA

BOILING POINT: 190* (DEG F)

SPECIFIC GRAVITY: 0.85 (H2O=1)

VAPOR PRESSURE: 25* @ 68 DEG F (MM HG)

MELTING POINT: NOT AVAILABLE (DEG F)

SOLUBILITY: COMPLETE (IN WATER)

VAPOR DENSITY: 1.6* (AIR=1)

EVAPORATION RATE (N-BUTYL ACETATE = 1): 0.7

*ESTIMATED

APPEARANCE AND ODOR: COLORLESS, MOBILE LIQUID. MILD ODOR.

SECTION VIII FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD: APX. 77 DEG F -TCC

FLAMMABLE LIMITS /% VOLUME IN AIR LOWER: 2 UPPER: 12

EXTINGUISHING MEDIA

USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL OR CO2.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

WARNING. FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

SECTION IX REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:

AVOID HEAT, SPARKS, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION X EMPLOYEE PROTECTION

RESPIRATORY PROTECTION

IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SEC. IV) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

OSHA HAS ESTABLISHED TRANSITIONAL OCCUPATIONAL EXPOSURE LIMITS FOR THIS PRODUCT AND/OR COMPONENTS OF THIS PRODUCT. REFER TO 29 CFR 1910.1000 FOR THESE TRANSITIONAL LIMITS AND REQUIREMENTS FOR MEETING THESE LIMITS.

PROTECTIVE CLOTHING

AVOID CONTACT WITH EYES. WEAR CHEMICAL GOGGLES IF THERE IS LIKELIHOOD OF CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WEAR CHEMICAL-RESISTANT GLOVES AND OTHER CLOTHING AS REQUIRED TO MINIMIZE CONTACT. TEST DATA FROM PUBLISHED LITERATURE AND/OR GLOVE AND CLOTHING MANUFACTURERS INDICATE THE BEST PROTECTION IS PROVIDED BY NITRILE, NEOPRENE AND NATURAL RUBBER GLOVES.

ADDITIONAL PROTECTIVE MEASURES

USE EXPLOSION-PROOF VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS. EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR EMERGENCY USE.

SECTION XI ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES

WARNING. FLAMMABLE. ELIMINATE ALL IGNITION SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. *** LARGE SPILLS *** EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN

NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS AS ABOVE. *** SMALL SPILLS *** TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

SECTION XII SPECIAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS AND FLAME. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE EVEN LIQUID PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES AND TURN OFF OTHER SOURCES OF IGNITION PRIOR TO USE AND UNTIL ALL VAPORS ARE GONE.

VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM THE HANDLING SITE; FLASH-FIRE CAN RESULT. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION. CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, WELD OR PERFORM SIMILAR OPERATIONS ON OR NEAR CONTAINERS. DO NOT PRESSURIZE DRUM CONTAINERS TO EMPTY THEM. STATIC ELECTRICITY MAY ACCUMULATE AND CREATE A FIRE HAZARD. GROUND FIXED EQUIPMENT. BOND AND GROUND TRANSFER CONTAINERS AND EQUIPMENT.

WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE. AIR-DRY CONTAMINATED CLOTHING IN A WELL VENTILATED AREA BEFORE LAUNDERING.

DO NOT STORE OR HANDLE IN ALUMINUM EQUIPMENT AT TEMPERATURES ABOVE 120 DEG. F.

SECTION XIII TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATION:
FLAMMABLE LIQUID

D.O.T. PROPER SHIPPING NAME:
ISOPROPANOL

OTHER REQUIREMENTS:
DOT ID NUMBER = UN 1219 - GUIDE SHEET 129

SECTION XIV OTHER REGULATORY CONTROLS

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.

IN ACCORDANCE WITH SARA TITLE III, SECTION 313, THE ENVIRONMENTAL DATA SHEET (EDS) SHOULD ALWAYS BE COPIED AND SENT WITH THE MSDS.

SECTION XV STATE REGULATORY INFORMATION

THE FOLLOWING CHEMICALS ARE SPECIFICALLY LISTED BY INDIVIDUAL STATES; OTHER PRODUCT SPECIFIC HEALTH AND SAFETY DATA IN OTHER SECTIONS OF THE MSDS MAY ALSO BE APPLICABLE FOR STATE REQUIREMENTS. FOR DETAILS ON YOUR REGULATORY REQUIREMENTS YOU SHOULD CONTACT THE APPROPRIATE AGENCY IN YOUR STATE.

STATE LISTED COMPONENT	PERCENT	STATE CODE
ISOPROPYL ALCOHOL (CAS NO: 67-63-0)	70	CA, FL, MA, ME, MN, NJ, PA, RI

CA = CALIFORNIA HAZ. SUBST. LIST; CA65 = CALIFORNIA SAFE DRINKING WATER AND

TOXICS ENFORCEMENT ACT LIST; FL = FLORIDA SUBST. LIST; IL = ILLINOIS TOX. SUBST. LIST; MA = MASSACHUSETTS SUBST. LIST; ME = MAINE HAZ SUBST. LIST; MN = MINNESOTA HAZ. SUBST. LIST; NJ = NEW JERSEY HAZ. SUBST. LIST; PA = PENNSYLVANIA HAZ. SUBST. LIST; RI = RHODE ISLAND HAZ. SUBST. LIST.

SECTION XVI SPECIAL NOTES

SEE ENVIRONMENTAL DATA SHEET FOR WASTE DISPOSAL AND OTHER ENVIRONMENTAL INFORMATION. THIS MSDS REVISION HAS CHANGES IN SECTIONS VI, IX, XII, AND XV.

PRODUCT: ISOPROPYL ALCOHOL. 70%

SECTION I PRODUCT/COMPOSITION

NO.	COMPONENT	CAS NUMBER	PERCENT
P	ISOPROPYL ALCOHOL, 70%	MIXTURE	100
1	ISOPROPYL ALCOHOL	67-63-0	70
2	WATER	7732-18-5	30

SECTION II SARA TITLE III INFORMATION

NO.	EHS RQ (LBS) (*1)	EHS TPQ (LBS) (*2)	SEC 313 (*3)	313 CATEGORY (*4)	311/312 CATEGORIES (*5)
P					H-1, P-3

FOOTNOTES

- *1 = REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE, SEC.302
- *2 = THRESHOLD PLANNING QUANTITY, EXTREMELY HAZARDOUS SUBSTANCE, SEC 302
- *3 = TOXIC CHEMICAL, SEC 313
- *4 = CATEGORY AS REQUIRED BY SEC 313 (40 CFR 372.65 C), MUST BE USED ON TOXIC RELEASE INVENTORY FORM
- *5 = HAZARD CATEGORY FOR SARA SEC. 311/312 REPORTING

HEALTH

H-1 = IMMEDIATE (ACUTE) HEALTH HAZARD H-2 = DELAYED (CHRONIC) HEALTH HAZARD

PHYSICAL

P-3 = FIRE HAZARD P-4 = SUDDEN RELEASE OF PRESSURE HAZARD
P-5 = REACTIVE HAZARD

SECTION III ENVIRONMENTAL RELEASE INFORMATION

EPA - COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT. UNDER EPA-CERCLA ("SUPERFUND") RELEASES TO AIR, LAND OR WATER MAY BE REPORTABLE TO THE NATIONAL RESPONSE CENTER, 800-424-8802 (CIRCUMSTANCES SURROUNDING THE RELEASE AND CLEANUP DETERMINE REPORTABILITY).

SECTION IV RCRA INFORMATION

UNDER EPA-RACA (40 CFR 261.21), IF THIS PRODUCT BECOMES A WASTE MATERIAL, IT WOULD BE IGNITABLE HAZARDOUS WASTE, HAZARDOUS WASTE NUMBER D001. REFER TO LATEST EPA OR STATE REGULATIONS REGARDING PROPER DISPOSAL.

----- FOR ADDITIONAL INFORMATION -----

CONTACT: MSDS COORDINATOR VAN WATERS & ROGERS INC.
DURING BUSINESS HOURS, PACIFIC TIME (425)889-3400

----- NOTICE -----

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DO NOT USE INGREDIENT INFORMATION AND/OR INGREDIENT PERCENTAGES IN THIS MSDS
AS A PRODUCT SPECIFICATION. FOR PRODUCT SPECIFICATION INFORMATION REFER TO A
PRODUCT SPECIFICATION SHEET AND/OR A CERTIFICATE OF ANALYSIS. THESE CAN BE
OBTAINED FROM YOUR LOCAL VW&R SALES OFFICE.

ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED FROM THE
MANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES. WHILE THE INFORMATION IS
BELIEVED TO BE ACCURATE, VW&R MAKES NO REPRESENTATIONS AS TO ITS ACCURACY OR
SUFFICIENCY. CONDITIONS OF USE ARE BEYOND VW&RS CONTROL AND THEREFORE USERS
ARE RESPONSIBLE TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS TO
DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES AND THEY
ASSUME ALL RISKS OF THEIR USE, HANDLING, AND DISPOSAL OF THE PRODUCT, OR FROM
THE PUBLICATION OR USE OF, OR RELIANCE UPON, INFORMATION CONTAINED HEREIN.
THIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT
RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER
PROCESS.

* * * E N D O F M S D S * * *

Van Waters & Rogers Inc.

** Material Safety Data Sheet **

Date: 06/27/00

Time: 08:17:00

To: DAN VACCARELLA
AARON THOMAS CO

Fax: 1714-895-6612

From: RONNIE HINMAN

Phone:

Re: MSDS - ISOPROPYL ALCOHOL, 70%

REMARKS:



Fax Cover Sheet

Including this cover sheet, you should receive 8 pages.

For emergency assistance involving chemicals,
call CHEMTREC - (800) 424-9300

Van Waters & Rogers, a Royal Pakhoed Company
6100 Carillon Point, Kirkland, WA 98033 425-889-3400



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD DELETE REVISED 1 Page _____ of _____ 2

FACILITY ID# **30035** BUSINESS NAME **ARAD THOMAS COMPANY INC.**

I. FACILITY INFORMATION

CHEMICAL LOCATION **7421 CHAPMAN AVE. GARDEN GROVE CA. 92841**

CONFIDENTIAL LOCATION Yes No 5 MAP # **1** 6 GRID # **I-8** 7

II. CHEMICAL INFORMATION

CHEMICAL NAME **VENZOL A-1** WASTE Yes 8 TRADE SECRET Yes No 11
* If EPCRA see instructions

COMMON NAME **ALCOHOL** 9 An EHS Chemical Yes No 12
"If EHS is "Yes", all amounts must be LBS

CAS # **MIXTURE** 10 FIRE CODE HAZARD CLASSES (supplied by GGFD) **FEB** 13

TYPE (Check one item only) a. PURE b. MIXTURE c. WASTE 14 RADIOACTIVE Yes No 15 CURIES 16

PHYSICAL STATE (Check one item only) a. SOLID b. LIQUID c. GAS 17 HED HAZARD CATEGORIES a. FIRE b. REACTIVE c. PRESSURE RELEASE 18
 d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT **110 GAL** 19 MAXIMUM DAILY AMOUNT **110 GAL.** 20 ANNUAL WASTE AMOUNT **0** 21 STATE WASTE CODE 22

UNITS a. GALLONS b. CUBIC FEET 23 DAYS ON SITE **365** 24 LARGEST CONTAINER **55 GAL** 25
 c. POUNDS d. TONS
"If EHS, amount must be in pounds.

STORAGE CONTAINER (Check all that apply) a. ABOVEGROUND TANK e. PLASTIC DRUM i. VAT m. CYLINDER q. TANK WAGON 26
 b. UNDERGROUND TANK f. NONMETALLIC DRUM j. FIBER DRUM n. GLASS CONTAINER r. RAIL CAR
 c. TANK INSIDE BLDG g. METAL CONTAINER k. BAG(S) o. PLASTIC CONTAINER s. TOTE BIN
 d. STEEL DRUM h. CARBOY l. BOX(S) p. IN MACH OR EQUIP t. OTHER _____

STORAGE PRESSURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT 27

STORAGE TEMPERATURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC 28

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
81.4	ETHYL ALCOHOL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	64-17-5
9.0	ISOPROPYL ALCOHOL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	67-36-0
4.3	METHYL ALCOHOL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	67-56-1
		<input type="checkbox"/> Yes <input type="checkbox"/> No	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

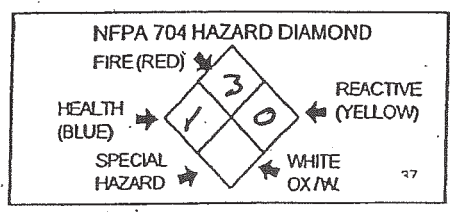
PLACARDING INFORMATION

UNDOT # **1987** 33
Refer to shipping papers or MSDS

DOT HAZARD CLASS **3** 34
Refer to shipping papers or MSDS

EPCRA YES NO 35

X _____ 36
If EPCRA, Please Sign Here



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

Van Waters & Rogers Inc. ** Material Safety Data Sheet **

Date: 06/16/00

7.431 gal per cu ft

Time: 10:19:00

To: DANNY
AARON THOMAS CO

Fax: 1714-895-6612

From: MICHELLE RAINEY

Phone:

Re: MSDS - VANZOL A-1

REMARKS:



Fax Cover Sheet

Including this cover sheet, you should receive 7 pages.

For emergency assistance involving chemicals,
call CHEMTREC - (800) 424-9300

Van Waters & Rogers, a Royal Pakhoed Company
6100 Carillon Point, Kirkland, WA 98033 425-889-3400

EPA: Superfund Amendments and Reauthorization Act (SARA) Title III: Section 313, Supplier Notification.

Chemical	Chemical Abstract	Percent
Methanol	Service Registry No.	by Weight
	67-56-1	4.2 (190)
		12.6 (200)

SECTION 11 SPECIAL PRECAUTIONS AND COMMENTS

Precautions to be taken in handling and storing

WARNING: FLAMMABLE LIQUID AND VAPORS.

Store and use in areas away from heat, sparks, and open flame.

Use with adequate ventilation.

Store in tightly closed containers in a cool, dry, well-ventilated, fire-resistant area.

Store away from oxidizing agents.

Store out of direct sunlight.

Use grounding clamps to eliminate static sparks.

Use non-sparking tools.

Avoid repeated or prolonged skin contact or breathing of vapors.

Eyewash stations and safety showers should be available in areas of handling and use.

Other Precautions

DO NOT INGEST.

Alcohol exposure enhances toxicity hazards of other materials, such as chlorinated hydrocarbon solvents or drugs. Provide preplacement medical exams for industrially exposed workers, and visual functions, liver and kidney systems. Provide suitable training to those working with denatured alcohol. Monitor the workplace. Keep records.

Registrations/Certifications: None

----- FOR ADDITIONAL INFORMATION -----

CONTACT: MSDS COORDINATOR VAN WATERS & ROGERS INC.
DURING BUSINESS HOURS, PACIFIC TIME (425)889-3400

----- NOTICE -----

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Other Protective Equipment
Protective clothing to minimize skin contact. Eye bath and safety shower.

Ventilation

Local Exhaust: To meet TLV requirements.

Mechanical: (General) Fans.

Special: Use explosion-proof equipment.

Other: None known.

SECTION 9 SPILL, LEAK, AND DISPOSAL PROCEDURES

Remove all sources of heat or ignition. Ventilate area with explosion-proof equipment. When feasible, remove leaking container. Contain spill. (Dilution of spill with water to raise flash point may be desirable.) Pick up liquid for recovery or disposal when feasible. Absorb small spills and residue on sand, sawdust, vermiculite or other non-flammable material.

NOTE: Clean-up personnel need protection against inhalation and liquid contact.

A spill or release of this material may trigger the emergency release reporting requirements under SARA, Title III (40 CFR Part 355) and/or CERCLA (40 CFR, Part 300). State or local reporting requirements may differ from federal requirements. Consult counsel for further guidance on your responsibilities under these laws.

Waste Disposal Methods: Waste material can be burned in a suitable incinerator or disposed of through a licensed waste disposal company. Follow federal, state and local regulations.

Clean Water Act Requirements: Not applicable.

Resource Conservation and Recovery Act (RCRA) Requirements: This material has a flash point below 140 F and is therefore considered a hazardous waste exhibiting the characteristic of ignitability (Hazardous Waste No. D001).

SECTION 10 REGULATORY INFORMATION

FDA: Not applicable. For industrial use only.

USDA: Not applicable.

CPSC: Not applicable.

TSCA: CAS# 64-17-5, Ethyl Alcohol
CAS# 67-56-1, Methyl Alcohol
CAS# 108-10-1, Methyl Isobutyl Ketone
CAS# 67-63-0, Isopropyl Alcohol

DOT: Regulated

Proper Shipping Name: Denatured alcohol

Hazard Class: 3

Label Required: Flammable

Identification No: NA 1987

Other Pertinent Information: Packing Group II

OSHA: Class IB Flammable Liquid

Inhalation:

Remove victim to fresh air at once. Restore and/or support breathing as required. Keep victim warm and at rest. Get medical attention as soon as possible. Prevent exposure to denatured alcohol for 7 days.

Ingestion:

GET MEDICAL ATTENTION IMMEDIATELY. If conscious, induce vomiting with one tablespoon of ipecac or by touching the back of the throat. Once vomiting has occurred, have the patient drink milk, water or a solution of sodium bicarbonate in water (one heaping teaspoon per quart). Seek medical attention.

SECTION 7 TOXICITY DATA

ORAL:

Ethyl Alcohol: TDLO (man) - 50 mg/kg.
LD50 (rat) - 7,060 mg/kg.

Methyl Alcohol: LDLO (human) - 340 mg/kg

Methyl Isobutyl Ketone: LD50 (rat) - 2080 mg/kg

Isopropyl Alcohol: LDLO - 8600 mg/kg

DERMAL:

Ethyl Alcohol: LDLO (rabbit) - 20 gm/kg.

Methyl Alcohol: LDLO (monkey) - 500 gm/kg.

Ethyl alcohol may cause severe skin irritation on prolonged contact.

INHALATION:

Ethyl Alcohol: LC50 (rat) - 20,000 ppm/10 hr.

Methyl Alcohol: TCLO (human) - 86000 mg/m³

Isopropyl Alcohol: LCLO (rat) - 16000 ppm/8hr.

Methyl Isobutyl Ketone: LCLO (rat) - 4000 ppm/15 min.

Carcinogenicity: None of the components of this product is listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

Target Organ Effects:

Exposure to ethyl alcohol can cause central nervous system depression, liver damage, harm to the unborn fetus.

Contains methyl alcohol, which can cause permanent eye damage, including blindness. Contains methyl isobutyl ketone, which may damage the liver, kidneys, and eyes.

Other Pertinent Data:

This product is a severe eye irritant when tested on the eyes of rabbits.

SECTION 8 SPECIAL PROTECTION INFORMATION

Personal Protective Equipment
Protective Gloves: Rubber.

Eye Protection: Chemical safety goggles.

Respiratory Protection

(Specify Type): Air-supplied mask in confined areas. Only NIOSH- or MSHA-approved equipment should be used.

Evaporation Rate (Butyl Acetate=1): 1.4.

SECTION 4 FIRE AND EXPLOSION DATA

Flash Point: About 55 F TOC.

Fire Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam. Use water spray to cool fire-exposed metal containers, to dilute and flush spills, to suppress vapors, and to reduce fire intensity.

Flammable Limits (Percent by Volume):	Lower	Upper
Ethanol	3.3	19

Special Firefighting Procedures & Equipment: Firefighters should use self-contained breathing apparatus in enclosed areas.

Unusual Fire and Explosion Hazards: Moderate explosion hazard and dangerous fire hazard when exposed to heat, sparks, or flame and can react vigorously with oxidizing agents.

SECTION 5 REACTIVITY DATA

STABILITY: Stable
Conditions to Avoid: Heat.

Incompatibility (Materials to Avoid): Strong oxidizing agents, such as nitrates, perchlorates, peroxides, chromic, nitric, and sulfuric acid.

Hazardous Decomposition Products: Thermal-oxidative degradation can produce oxides of carbon. Toxic gases and vapors (i.e., carbon monoxide, formaldehyde) may be released in a fire.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None known.

SECTION 6 HEALTH HAZARD INFORMATION

Effects of Overexposure:
The denaturants present make this material much more toxic than ethyl alcohol alone.

Excessive exposure to vapors can be irritating to eyes and respiratory tract and can produce headache, drowsiness, nausea and narcosis. Ingesting can produce drunkenness, followed by severe systemic illness, and perhaps blindness and death.

Ethyl alcohol and/or denaturing agents can cause central nervous system depression, liver damage, harm to the unborn fetus, and skin sensitization.

Probable Routes of Exposure: Ingestion, inhalation, skin absorption.

Emergency and First Aid Procedures:

Eye Contact:
Rinse immediately with water. Remove contact lenses, then flush eyes immediately with large quantities of water for at least 15 minutes, including under the eyelids. Seek immediate medical attention.

Skin Contact:
Remove contaminated clothing. Wash affected area with soap and water; apply skin lotions. If skin irritation persists, get medical attention.

SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME: VANZOL A-1
MSDS #: P10738V
DATE ISSUED: 2/25/98
SUPERSEDES: 5/29/97
ISSUED BY: 008521

Fire: 3
Health: 1
Reactivity: 0
Specific -

Product Name: Vanzol A-1
CAS Name and Number: Mixture (See Section X)
Chemical Family: Alcohol.
Chemical Formula: CH3CH2OH

SECTION 2 HAZARDOUS INGREDIENTS

COMPONENT	%VOLUME	OSHA PEL	OSHA STEL
Ethyl Alcohol	81.4 (190) 85.8 (200)	1000 PPM	None establ.
Methyl Alcohol*	4.3	200 PPM	250 PPM
Isopropyl Alcohol	9.0	400 PPM	500 PPM
Methyl Isobutyl Ketone	0.9	50 PPM	75 PPM

*Absorption through the skin, mucous membranes, or eyes may contribute to overall exposure.

SECTION 3 PHYSICAL PROPERTIES

Appearance and Odor: Clear, colorless liquid with vinous odor.

Molecular Weight: 46.07 (ethyl alcohol).

Boiling Point (Degrees Fahrenheit): 173.

Melting Point (Degrees Fahrenheit): -178.

Vapor Pressure (MM of Mercury): 40-50 @ 66F.

Specific Gravity (Water = 1): Approximately 0.8.

Vapor Density (Air =1): Ethanol: 1.6.

Percent Volatile (By Weight): 100%.

pH: Not applicable.

Solubility in Water: Complete.

[248002] (425) 889-4100

06/16/00

10:20

7 of 7

DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES AND THEY ASSUME ALL RISKS OF THEIR USE, HANDLING, AND DISPOSAL OF THE PRODUCT, OR FROM THE PUBLICATION OR USE OF, OR RELIANCE UPON , INFORMATION CONTAINED HEREIN. THIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER PROCESS.

* * * E N D O F M S D S * * *



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD DELETE REVISED 1

Page _____ of _____ 2

FACILITY ID# **30035** BUSINESS NAME **AROLD THOMAS COMPANY INC.**

I. FACILITY INFORMATION

CHEMICAL LOCATION **7421 CHAPMAN AVE. GARDEN GROVE CA. 92841**

CONFIDENTIAL LOCATION Yes No 5 MAP# **1** 6 GRID# **T-8** 7

II. CHEMICAL INFORMATION

CHEMICAL NAME **PROPANE** WASTE Yes 8 TRADE SECRET Yes No 11

* If EPCRA see instructions

COMMON NAME **LIQUID PETROLEUM GAS** 9 An EHS Chemical Yes No 12

* If EHS is "Yes", all amounts must be LBS

CAS # **78-98-6** 10 FIRE CODE HAZARD CLASSES (supplied by GGF) **FIA** 13

TYPE (Check one item only) a. PURE b. MIXTURE c. WASTE 14 RADIOACTIVE Yes No 15 CURIES 16

PHYSICAL STATE (Check one item only) a. SOLID b. LIQUID c. GAS 17

FED HAZARD CATEGORIES a. FIRE b. REACTIVE c. PRESSURE RELEASE 18

d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT **250 GAL.** 19 MAXIMUM DAILY AMOUNT **500 GAL.** 20 ANNUAL WASTE AMOUNT **0** 21 STATE WASTE CODE 22

UNITS a. GALLONS b. CUBIC FEET 23 DAYS ON SITE **365** 24 LARGEST CONTAINER **499 GAL.** 25

c. POUNDS d. TONS

* If EHS, amount must be in pounds.

STORAGE CONTAINER (Check all that apply) a. ABOVEGROUND TANK e. PLASTIC DRUM i. VAT m. CYLINDER q. TANK WAGON 26

b. UNDERGROUND TANK f. NONMETALLIC DRUM j. FIBER DRUM n. GLASS CONTAINER r. RAIL CAR

c. TANK INSIDE BLDG g. METAL CONTAINER k. BAG(S) o. PLASTIC CONTAINER s. TOTE BIN

d. STEEL DRUM h. CARBOY l. BOX(S) p. IN MACH OR EQUIP t. OTHER

STORAGE PRESSURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT 27

STORAGE TEMPERATURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC 28

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
87.5 ²⁹	PROPANE	<input type="checkbox"/> Yes <input type="checkbox"/> No 31	78-98-6 32
0.0-5.0 ²⁹	ETHANE	<input type="checkbox"/> Yes <input type="checkbox"/> No 31	74-84-0 32
0.0-5.0 ²⁹	PROPYLENE	<input type="checkbox"/> Yes <input type="checkbox"/> No 31	115-07-1 32
0.0-2.5 ²⁹	BUTANE	<input type="checkbox"/> Yes <input type="checkbox"/> No 31	VARIOUS 32
0.0- ²⁹	ETHYL MERCAPTAN	<input type="checkbox"/> Yes <input type="checkbox"/> No 31	0.0- 32

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

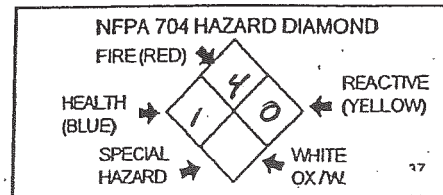
PLACARDING INFORMATION

UNDOT # **1075** 33 Refer to shipping papers or MSDS

DOT HAZARD CLASS **2.1** 34 Refer to shipping papers or MSDS

EPCRA YES NO 35

X _____ 36 If EPCRA, Please Sign Here



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

MATERIAL SAFETY DATA SHEET

EFFECTIVE FEBRUARY, 1997

Suburban Propane, L.P.

P.O. Box 206

Whippany, NJ 07981

TRANSPORTATION CHEMTREC NO.
EMERGENCY NO: (800) 424-9300

GENERAL SAFETY DEPT.
INFORMATION NO: (201) 887 5300

1. Product Identification

Product Name: Odorized Commercial Propane
 Chemical Name: Propane
 Chemical Family: Petroleum Hydrocarbon
 Formula: C3H8
 Synonyms: Liquefied Petroleum Gas, LP-Gas, Propane, LPG (unstenched)

2. Composition & Information on Ingredients

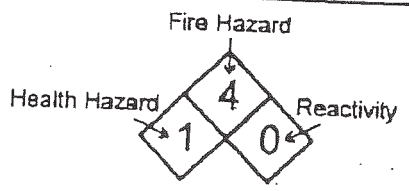
MATERIAL	CAS NUMBER	PERCENT	OSHA PEL
Propane	74-98-6	87.5-100	1000 ppm
Ethane	74-84-0	0.0-5.0	
Propylene	115-07-1	0.0-5.0	
Butanes	various	0.0-2.5	800ppm
Ethyl Mercaptan	75-08-1	0.0 -	50ppm

3. Hazards Identification

EMERGENCY OVERVIEW

Flammable gas under pressure. Keep away from sources of ignition including sparks, flames and heat.

Use only with adequate ventilation as vapors can replace oxygen available for breathing in confined spaces. Odor may not provide adequate warning of potentially hazardous concentrations. Vapor is heavier than air. Liquid can cause freeze burn similar to frostbite if allowed to contact the skin or eyes.



- 4 - Severe
- 3 - Serious
- 2 - Moderate
- 1 - Slight
- 0 - Minimal

POTENTIAL HEALTH EFFECTS

Eye: Contact with liquefied or pressurized gas may cause momentary freezing followed by swelling and eye damage.

Skin: Contact with liquid can cause frostbite (freeze burn).

Inhalation: Asphyxiant in high concentrations due to dilution of oxygen available. It should be noted that at concentrations high enough to cause suffocation, the lower limit of flammability of propane would be exceeded and may present both an oxygen-deficient and explosive atmosphere. Effects of overexposure may include headaches, nausea, vomiting, coughing, signs of nervous system depression, shortness of breath, dizziness, drowsiness, and disorientation. In extreme cases, convulsions, unconsciousness and death may occur as a result of asphyxiation.

Ingestion: Ingestion is not expected to occur in normal use. Liquid can cause freeze burns similar to frostbite.

4. First Aid Measures

Eye: Contact with liquid can cause freezing of tissue. Flush affected eye gently with lukewarm water. Seek medical attention.

Skin: Contact with liquid can cause freeze burns similar to frostbite. Immerse affected area in or flush with lukewarm water. Do not use hot water. Remove saturated clothing, shoes or jewelry from affected area. Seek medical attention.

Inhalation: If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion: Ingestion of this product is not considered a potential route of exposure.

5. Fire Fighting Measures

Flash Point.....	-156 F	Flammable Limits In Air By Volume:	Lower: 2.15%
Boiling Point.....	-44 F		Upper: 9.6%
Autoignition.....	No Data		

Extinguishing Media: Dry chemical, CO₂, water spray or fog for surrounding areas. Do not extinguish flame until propane source is shut off.

Special Instructions For Fire Fighting: Evacuate personnel from the area. Sources of ignition should be eliminated. Cool the container with water spray from a maximum distance immediately, taking care not to extinguish the flame. If flame is extinguished, an explosive re-ignition might occur. If possible turn off the flow of propane while cooling the container. If unable to stop the flow of propane let the fire burn out while cooling the container with a large volume of water. For uncontrollable fires and when the flame is impinging on the container, withdraw all personnel and evacuate the vicinity immediately. The container pressure can increase due to heat and the container may rupture if the pressure relief devices fail to properly function or if there is a weakening of the container due to heat or physical damage. Vapor may explode if ignited in an enclosed area.

Unusual Fire and Explosion Hazards: Propane vapors are heavier than air and easily ignited. While dissipating it may collect in areas where there is an ignition source and flash back.

6. Accidental Release Measures

In the event of an accidental release or spill these measures should be taken: The immediate area should be evacuated. Eliminate all sources of ignition and provide maximum ventilation. Shut off source of the gas, if possible to do so safely. If the container or cylinder is leaking or if the valve is leaking, contact your propane supplier and/or the fire department. Do not enter a vapor (white) cloud. Break up accidental release with water spray. Stay up wind of release.

7. Handling and Storage Precautions

Store containers in authorized locations away from heat & ignition sources. Provide separate storage locations for other compressed or flammable gasses according to applicable codes. Store all propane containers, empty and full, in an upright position with the relief valve in the vapor space. Do not drop or abuse propane containers. Keep container valves closed and plugged or capped according to applicable codes when not connected for use. Empty propane containers retain residue and should be treated as if they are full. Specific storage requirements are listed in NFPA 58, Standard for the Storage and Handling of Liquefied Petroleum Gases.

Handling precautions: Propane vapor is heavier than air and can collect in low areas when adequate ventilation or air movement is not present to disperse it. Never check for leaks with a flame or match. Use a leak detector solution or an electronic leak detector. Make sure the container service valve is closed when connecting or disconnecting. If container service valve does not operate properly, discontinue use and contact your propane supplier. Never insert any object into the pressure relief valve.

8. Exposure Controls/ Personal Protection

Engineering Controls: Use ventilation in enclosed area where the possibility of flammable mixture may accumulate. Where flammable mixtures may be present, electrical systems for such locations must be used (see NFPA 70, *National Electric Code*).

Respiratory Protection: General use, none. Emergency use, if concentrations are high enough to warrant supplied-air or self-contained breathing apparatus, then the atmosphere may be flammable. Appropriate precautions must be taken regarding flammability.

Protective Clothing: Avoid skin contact with liquid propane because of the possibility of freeze burns. Wear gloves and protective clothing which are impervious to liquid propane for the duration of the expected exposure.

Eye Protection: Approved safety glasses or a face shield are recommended when filling and handling propane containers.

Other Protective Equipment: Safety shoes are suggested when handling cylinders.

9. Physical and Chemical Properties

Boiling Point.	@ 14.7 psia =	-44 F	Bulk Density.	4.24 lbs/gal
Specific Gravity of Vapor. (Air = 1) at 60 F:		1.50	Expansion Ratio. (liquid to gas @ 14.7 psia):	1 to 270
Specific Gravity of Liquid. (water = 1) at 60 F:		0.504	Solubility in Water.	Slight, 0.1 to 1.0
Vapor Pressure.	@ 70 F =	127 psig	Appearance and Color.	A colorless and tasteless gas at normal temperature and pressure. An odorant has been added to provide a strong unpleasant odor.
	@ 105 F =	210 psig		

Odorant Warning: Odorant is added to propane to aid in the detection of leaks. One common odorant is ethyl mercaptan, CAS # 75-08-1. Odorant has a foul unpleasant smell. The ability of people to detect odors can vary greatly. Certain chemical reactions with materials in the propane system, or underground leaking propane gas passing through certain soils, can reduce the odorant level. No odorant will be 100% effective in all circumstances. If the odorant appears to be weak, notify your propane supplier promptly.

10. Stability and Reactivity

Chemical Stability: Stable under normal conditions of storage and handling.

Conditions to Avoid: Keep away from high heat, strong oxidizing agents and ignition sources.

Hazardous Decomposition Products: Normal combustion products are carbon dioxide, nitrogen & water vapor. Incomplete combustion can cause carbon monoxide (a toxic gas) from either an appliance or combustion engine. Aldehyde (a nose & eye irritant) can be formed from incomplete combustion.

11. Toxicological Information.

Hazardous Polymerization: None will occur.

Propane is non-toxic and is a simple asphyxiant, however it does have slight anesthetic properties and higher concentrations may cause dizziness.

No definitive information available on carcinogenicity, mutagenicity, target organs or developmental toxicity.

12. Ecological Information.

No adverse effects are expected. Propane does not contain any Class I or Class II ozone-depleting chemicals (40 CFR Part 82). Propane is not listed as a marine pollutant by DOT (49 CFR Part 1710).

13. Disposal Considerations

Waste Disposal: Do not attempt to dispose of unused or residual product. Return to the propane supplier for proper disposal.

Empty containers must be handled with care due to material residue. Residual product may be burned at a controlled rate, if a suitable burning unit is available. This burning must be done in accordance with regulations.

14. Transport Information

DOT Shipping Name:	Liquefied Petroleum Gas	IMO Shipping Name:	Propane
Identification Number:	UN 1075	IMO Identification Number:	UN 1978
Hazard Class:	2.1	Special Shipping Information:	Container should be transported in a upright, secure position in a well ventilated vehicle.
Shipping Labels:	Flammable Gas		
Placard (when required):	Flammable Gas		

15. Regulatory Information

The following information contains selected regulatory information that may be applicable to this product. Users of this product are responsible for their own regulatory compliance on federal, state and local levels. Not all regulatory requirements are identified.

4

EPA U.S. Federal Regulations:
Environmental Protection Agency

CERCLA Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CFR Parts 117 and 302: Reportable Quantity (RQ): None

SARA Super Fund Amendment and Reauthorization Act Section 302/304: Requires emergency planning on threshold planning quantities and release reporting based on reportable quantities (RQ) of EPA's extremely hazardous substances (40) CFR part 355)

Extremely Hazardous Substances: None Threshold Planning quantities (TPQ): None

Sections 311/312: Require submission of material safety data sheets (MSDSs) and chemical inventory reporting of EPA defined hazard classes (40 CFR Part 370). The hazard classes for this product are:

Immediate: Yes Pressure: Yes Flammable: Yes Delayed: No Reactivity: No

Section 313: Propane releases do not require reporting under Section 313.

TSCA Toxic Substance Control Act: Propane is listed on the TSCA inventory.

OSHA Occupational Safety and Health Administration 29 CFR 1910: Process Safety Management of Highly Hazardous Chemicals.

FDA Food and Drug Administration Act 21 CFR 184.1655: Generally recognized as safe (GRAS) as a direct human food ingredient when used as a propellant, aerating agent and gas.

16. Other Information

All piping and equipment used for handling, storage and use of propane must be designed for that use. Refer to NFPA 54 National Fuel Gas Code and NFPA 58 Standard for the Storage and Handling of Liquefied Petroleum Gases.

OSHA 29 CFR 1919.10 and NFPA 58 require that persons handling LP-gases be trained in proper handling and operating procedures, which is to be documented by the employer. Qualified and trained persons should install and service propane systems and containers.

Odorant Warning: Odorant is added to aid in the detection of leaks. The most common odorant is ethyl mercaptan, CAS No. 75-08-1. The intensity of ethyl mercaptan stench (the odor) may fade due to chemical oxidation, adsorption or absorption. Some people may not be able to smell ethyl mercaptan due to nasal perception problems which may result from a number of factors including alcohol, tobacco or drugs. Leaking propane from underground lines and tanks could lose its odor as it passes through certain soils. The intensity of odorant in propane could fade over prolonged storage or in the presence of freshly cleaned container or in containers after a period of non use. Familiarize yourself, your employees and users of propane with this warning.

If the odor level appears to be weak, notify your propane supplier promptly.

Disclaimer of Expressed or Implied Warranties: The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this product, or the hazards related to its use. This information and product are furnished on the condition that the persons receiving them shall make their own determination as to the suitability of the product for any particular purpose and on the condition that they assume the risk of their use thereof.

Prepared by: Regulatory Department
P.O. Box 206 Whippany, NJ 07981

Issued: 2/97
Supersedes: 07/93



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD DELETE REVISED 1 Page _____ of _____ 2

FACILITY ID# 3 0 0 3 5 BUSINESS NAME ARON THOMAS COMPANY INC. 3

I. FACILITY INFORMATION

CHEMICAL LOCATION 4
7421 CHAPMAN AV. GARDEN GROVE CA. 92841

CONFIDENTIAL LOCATION Yes No 5 MAP # 1 6 GRID # I-8 AND/OR E-7 7

II. CHEMICAL INFORMATION

CHEMICAL NAME NAIL COLOR WASTE Yes No 8 TRADE SECRET Yes No 11
* If EPCRA see instructions

COMMON NAME 9 An EHS Chemical Yes No 12
*If EHS is "Yes", all amounts must be LBS

CAS # MIXTURE 10 FIRE CODE HAZARD CLASSES (supplied by GGFD) F I B 13

TYPE (Check one item only) a. PURE b. MIXTURE c. WASTE 14 RADIOACTIVE Yes No 15 CURIES 16

PHYSICAL STATE (Check one item only) a. SOLID b. LIQUID c. GAS 17 HED HAZARD CATEGORIES a. FIRE b. REACTIVE c. PRESSURE RELEASE 18
 d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 150 GAL 19 MAXIMUM DAILY AMOUNT 150 GAL 20 ANNUAL WASTE AMOUNT 30 GAL 21 STATE WASTE CODE 212 22

UNITS a. GALLONS b. CUBIC FEET 23 DAYS ON SITE 120 24 LARGEST CONTAINER 55 GAL 25
 c. POUNDS d. TONS
*If EHS, amount must be in pounds.

STORAGE CONTAINER (Check all that apply) a. ABOVEGROUND TANK e. PLASTIC DRUM i. VAT m. CYLINDER q. TANK WAGON 26
 b. UNDERGROUND TANK f. NONMETALLIC DRUM l. FIBER DRUM n. GLASS CONTAINER r. RAIL CAR
 c. TANK INSIDE BLDG g. METAL CONTAINER o. PLASTIC CONTAINER s. TOTE BIN
 d. STEEL DRUM h. CARBOY j. BOX(S) p. IN MACH OR EQUIP t. OTHER

STORAGE PRESSURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT 27

STORAGE TEMPERATURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC 28

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
16-20 ²⁹	BUTYLE ACETATE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 31	123-86-4 32
14-18 ²⁹	TOLUENE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 31	108-88-3 32
3-7 ²⁹	ISOPROPYL ALCOHOL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 31	67-63-0 32
		<input type="checkbox"/> Yes <input type="checkbox"/> No 31	
		<input type="checkbox"/> Yes <input type="checkbox"/> No 31	

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

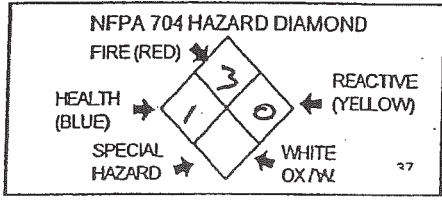
PLACARDING INFORMATION

UNDOT # UN 1263 33
Refer to shipping papers or MSDS

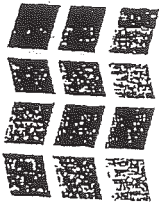
DOT HAZARD CLASS 3 34
Refer to shipping papers or MSDS

EPCRA YES NO 35

X _____ 36
If EPCRA, Please Sign Here



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KIRKER

ENTERPRISES, INC.

Fifty Five East Sixth Street
Paterson, New Jersey 07524

(973) 754-9000

SECTION I

MATERIAL SAFETY DATA SHEET

6/15/00

KIRKER ENTERPRISES, INC.
55 EAST 6th STREET
PATERSON, NEW JERSEY 07524
(973) 754-9000
(800) 524-0185
(800) 424-9300 EMERGENCY RESPONSE

SECTION II

PRODUCT IDENTIFICATION

HMIS RATINGS

FORMULA NUMBER MERLE NORMAN ALL SHADES
FORMULA DESCRIPTION CONVENTIONAL NAIL ENAMEL
D.O.T. CLASS UN1263 CLASS 3 GROUP II
 FLAMMABLE LIQUID CLASS 1B

HEALTH 1
FLAMMABILITY 3
REACTIVITY 0

SECTION III

HAZARDOUS INGREDIENTS

INGREDIENT	CAS NUMBER	WEIGHT%	EXPOSURE-LIMITS-PPM	
			ACGIH-TWA	OSHA-PEL
TOLUENE	108-88-3	14-18	100.00	150.00
BUTYL ACETATE	123-86-4	16-20	150.00	150.00
ETHYL ACETATE	141-78-6		400.00	400.00
ISOPROPYL ALCOHOL	67-63-0	3-7	400.00	400.00
NITROCELLULOSE	9004-70-0		400.00	NA
DIBUTYL PHTHALATE	84-74-2		NA	5.00
CAMPHOR	76-22-2		2.00	2.00
TOLUENESULFONAMIDE RESIN	1338-51-8		NA	NA

SECTION IV

PHYSICAL DATA

Boiling Range: 171 TO 640 DEG F
LB/GA : 8.10
EVAPORATION RATE SLOWER THAN ETHER
ODOR: STRONG SOLVENT

SECTION V

FIRE AND EXPLOSION DATA

Flash Point: 24 DEG F TCC

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM

FIRE FIGHTING PROCEDURES: Full protective equipment, including self contained breathing apparatus is recommended. Water from fog nozzle may be used to cool containers to prevent pressure build up.

UNUSUAL FIRE AND EXPLOSION HAZARDS: When heated above the flash point flammable vapors may be emitted. Fine mists or sprays may be flammable at temperatures below the flash point.

SECTION VI

HEALTH HAZARD DATA

SIGNS AND SYMPTOMS OF EXPOSURE: Headache, dizziness, nausea, staggering gait, confusion, unconsciousness.

ACUTE: Irritation , burning of eyes and skin, nervous system depression

CHRONIC: Reports have associated repeated and prolonged overexposure to solvent with permanent brain damage.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact immediately flush with plenty of water for at least 15 minutes. Call a physician. In case of skin contact wash with soap and water. If irritation occurs consult a physician.

INHALATION: May cause nose and throat irritation.

EYES: May cause irritation or burning eyes.

SKIN: Repeated or prolonged liquid contact may cause skin irritation with discomfort or dermatitis.

INGESTION: Gastro intestinal distress, call a physician.

PROPOSITION 65 STATEMENT:

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

SECTION VII

REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO2, Nitrous Oxides, Smoke

CONDITIONS TO AVOID: Do Not Store Over 120 degrees F

INCOMPATIBILITY (Materials to avoid): Acids, Alkalies, and Peroxides.

SECTION VIII

SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Observe label precautions and keep away from heat, sparks & flames. Close container after each use. Ground container when pouring. Do not store over 120 degrees F. Wash hands thoroughly after handling before eating.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate area and remove sources of ignition. Prevent skin contact and breathing vapors. Confine and remove with inert absorbent. Dispose in accordance with applicable Federal, State, and Local Regulations. (Do not incinerate in closed containers)

SECTION IX

SAFE HANDLING AND USE INFORMATION

FOR MANUFACTURING USE ONLY.

HANDLING AND STORING PRECAUTIONS: In accordance with good industrial practice avoid unnecessary personal contact. Wash face and hands before eating, drinking, or smoking. Store in original container, AWAY from excessive HEAT and keep in a dry area.

VENTILATION: Use local exhaust.

PROTECTIVE GLOVES: Neoprene gloves.

EYE PROTECTION: Include splash guards and side shields.

RESPIRATORY PROTECTION: Use with adequate ventilation and avoid breathing vapors.

CLOTHING: Coveralls.

OTHER PROTECTIVE EQUIP: Eye bath and shower.

The information contained within is based upon information believed to be correct, at the time of issue. However, no guarantee or warranty of any kind (expressed or implied) is made with respect to the information contained within.

MSDS prepared: 6/15/00

CALIFORNIA CHEMICAL INVENTORY FORM - DESCRIPTION PAGE

(11) ADD DELETE REVISE NO CHANGE PAGE (12) OF 3)

BUSINESS NAME (4) **AARON THOMAS COMPANY**
 CHEMICAL LOCATION (5) **7390 HUNT AVE - GARDEN GROVE, CA 92841**
 MAP # (if more than one) (6) **1** GRID # (7) **G-4**

CHEMICAL NAME (8) **METHYL ETHYL KETONE** TRADE SECRET (11) Y N
 COMMON NAME (9) **L-200 CLEANER & L-9219 MAKE UP SOLUTION** AHM / *EHS (12) Y N
 CAS # (10) **78-93-3** *IF EHS BOX IS Y ALL AMOUNTS MUST BE IN LBS
 FIRE CODE HAZARD CLASSES* (13) **F I A**

*COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE CHECK IF RADIOACTIVE (15) (16)
 PHYSICAL STATE (17) SOLID LIQUID GAS CURIES
 FED HAZARD CATEGORIES (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH
 STATE WASTE CODE (19) UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23) **3 GAL**
 DAYS ON SITE (20) **365** *If EHS, amounts must be in lbs. AVG DAILY AMT (24) **13 GAL**
 LARGEST CONTAINER (21) **1 GAL** ANNUAL WASTE AMT (25) **0**
 STORAGE CONTAINER (26) ABOVE GROUND TANK - INSIDE CAN BOX(S) TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS CONTAINER
 STEEL DRUM FIBER DRUM PLASTIC CONTAINER Other
 PLASTIC/NONMETALLIC DRUM BAG(S) IN MACHINERY OR EQUIP
 PRESSURE STORAGE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT
 STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONENTS	(31) EHS/AHM	(32) CAS #
1		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
2.		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
3		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	

(33) **ADDITIONAL LOCALLY COLLECTED INFORMATION**
 *COMPLETE BLOCK (33) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

NFPA CLASSIFICATION **UN 1193**
 UN/DOT # **3** Refer to shipping papers or MSDS
 DOT HAZARD CLASS **3** Refer to shipping papers or MSDS
 UFC HAZARD CLASS _____
 NFPA 704 HAZARD DIAMOND
 FIRE RED **3**
 HEALTH BLUE **1** REACTIVE YELLOW **0**
 SPECIAL HAZARD **0** WHITE OX/W **0**

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MATERIAL SAFETY DATA SHEET

MSDS ID #: 100029

Date Prepared: April 26, 1996
Revision: March 23, 1998

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: L-9219 MAKE-UP SOLUTION 12 pints
 Product Code: I0220
 Colors Covered: Colorless
 Supplier Name: Matthews International Corporation
 Address: 101 Fairview Avenue
 City: Pittsburgh
 State/Zip: Pennsylvania, USA, 15238
 Phone: (412)665-2500
 Fax: (412)828-4545
 24 Hour Emergency Phone: (412)456-7499

2. COMPOSITION/INFORMATION ON INGREDIENTS

<input checked="" type="checkbox"/> Substance			<input type="checkbox"/> Mixture	
Hazardous Components	Percent	CAS No.	TLV	Carcinogen
Methyl Ethyl Ketone	100	78-93-3	200 ppm	No

3. HAZARDS IDENTIFICATION

Most Important Hazards: Flammable liquid and vapor. Irritating to the eyes and respiratory system.
Main Symptoms of Overexposure: EYES- severely irritating. If not removed promptly, will injure eye tissue, which may result in permanent damage; SKIN- frequent or prolonged contact may irritate and cause dermatitis. Low order of toxicity; INHALATION- vapor concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches and dizziness, are anesthetic and may have other CNS effects. Low order of toxicity; INGESTION- Low order of toxicity. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.
 HMIS: H-1, F-3, R-0

4. FIRST AID MEASURES

Inhalation: Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.
Skin Contact: Immediately flush with large amounts of water, use soap if available. Remove contaminated clothing, including shoes, after flushing has begun.
Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, including under the eyelids. Get prompt medical attention.
Ingestion: If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Water spray, dry chemical, carbon dioxide, alcohol foam.

Specific Hazards: Flammable liquid. Can release vapors that form flammable mixtures at or above the flashpoint. Vapors may travel a considerable distance to a source of ignition and flash back.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Eliminate all ignition sources.

Environmental precautions: Prevent liquid from entering sewers, watercourses or low areas.

Methods of cleaning up: Land Spill: Keep public away. Shut off source if possible to do so without hazard. Contain spilled liquid with sand or earth. Dilute contained spill with water. Recover by pumping or with a suitable absorbent. Consult an expert on disposal of recovered material. Water Spill: Eliminate sources of ignition. Warn occupants and shipping in downwind areas of fire and explosion hazard. Hose over spill to effect dilution of water soluble material.

7. HANDLING AND STORAGE

Handling-Precautions: Avoid contact with eyes. Wash thoroughly after handling.

Safe handling Advice: Flammable liquid. Keep away from heat, sparks and open flames. This material is not a static accumulator but use proper grounding equipment.

Storage-Conditions: Keep container closed. Handle containers with care. Store in a cool, well ventilated area away from incompatible materials. Protect material from direct sunlight.

Incompatible Products: Strong oxidizing agents.

Product Name: L-9219 MAKE-UP SOLUTION

Revision: March 23, 1998

Product Code: I0220

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures or otherwise to maintain ambient concentration below the recommended threshold exposure limits

Personal Protective Equipment: Eliminate all ignition sources.

Respiratory Protection: If engineering controls do not maintain concentrations below recommended exposure limits, an approved respirator should be worn. Type: organic vapor.

Hand Protection: Where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Eye Protection: Wear safety glasses with side shields or goggles.

Skin and Body Protection: Recommended Decontamination Facilities: eye bath, safety shower, washing facilities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Colorless

Odor: Ketone

Flashpoint: -4° C (25° F)

Autoignition temperature: >450° C (>842° F)

pH: N/A

Density: 0.806

Vapor Pressure: 83 mm Hg @ 75° F

Vapor Density: >1

Solubility in Water: 26.3% @ 68° F

Boiling Point: 78.5-81° C (175-177° F)

Freezing Point: -86° C (-123° F)

V.O.C.: 806 g/l

Evaporation rate(Butyl Acetate=1): 6.0

10. STABILITY AND REACTIVITY

Stable: Yes Conditions to avoid: Avoid heat, sparks and open flames.

Materials to avoid: Strong oxidizing agents

Hazardous decomposition products: No unusual

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Oral LD50 (rat) 1.87-6.5 g/kg; Oral LD50 (mouse) 4.5 g/kg; Inhalation LC50 (rat) >20,000 ppm/hour; Dermal LD50 (rabbit) 4.0 g/kg

Chronic Toxicity: There is no evidence that exposure to MEK alone causes progressive or irreversible neurotoxic effects. However, simultaneous overexposure to MEK and N-Hexane can potentiate the known irreversible effects of N-Hexane.

Sensitization: No

Specific Effects: None

12. ECOLOGICAL INFORMATION

Possible Environmental Effects: This substance is relatively volatile and will evaporate from water and soil over the course of a few days. This substance is expected to biodegrade rapidly and be "readily" biodegradable under OECD guidelines. This substance is expected to be removed in a wastewater treatment plant. Low acute toxicity to aquatic organisms is expected.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with all local, state, and federal regulations. EPA hazardous waste- D001 Flammable, D035, F003

14. TRANSPORT INFORMATION

Land: (DOT)- regulated, Flammable liquid, Class 3, packaging group II, Proper Shipping Name: Methyl Ethyl Ketone, UN 1193

Inland Waterways: (AND/R)- regulated, class 3; Item 3b; Tremcard number 19

Sea: (IMDG)- regulated, IMO class 3.2; EMS number 3-07; Risk label 3; Proper Shipping Name- Methyl Ethyl Ketone; IMDG Code Page No. 3226; MFAG number 300; Packaging group II

Air: (ICAO/IATA)- regulated, Flammable Liquid; Class 3, Packing Group II; Proper shipping name- Methyl ethyl ketone; Passenger packing instructions: 305/Y305; Cargo packing instruction- 307

15. REGULATORY INFORMATION

Hazard and Safety Information: California Prop 65- listed; PA hazardous substance list- listed; WHMIS (Canada)- listed; IARC, NTP- not listed; SARA 313- listed; SARA 311/312- Acute health hazard, chronic health hazard, fire hazard; TSCA- listed; EINECS- listed #201-159-0

Ozone Depleting Chemicals Present: None

16. OTHER INFORMATION

Containers of this material may be hazardous when emptied, all hazard precautions given in the data sheet must be observed. The information contained herein is based upon what we believe to be reliable data. However, we make no warranty or guarantee, expressed or implied, concerning the accuracy of such information and disclaim all liability from reliance thereon. You should evaluate the information through your own sources prior to use.

Reference ISO 11014-1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: L-200 CLEANER Product Code: I0225
 Colors Covered: Colorless
 Supplier Name: Matthews International Corporation Address: 101 Fairview Avenue
 City: Pittsburgh State/Zip: Pennsylvania, USA, 15238
 Phone: (412)665-2500 Fax: (412)828-4545 24 Hour Emergency Phone: (412)456-7499

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Components</u>	<u>Percent</u>	<u>CAS No.</u>	<u>TLV</u>	<u>Carcinogen</u>
Methyl Ethyl Ketone	95-100	78-93-3	200 ppm	No

3. HAZARDS IDENTIFICATION

Most Important Hazards: Flammable liquid and vapor. Irritating to the eyes and respiratory system.
Main Symptoms of Overexposure: EYES- severely irritating. If not removed promptly, will injure eye tissue, which may result in permanent damage; SKIN- frequent or prolonged contact may irritate and cause dermatitis. Low order of toxicity; INHALATION- vapor concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches and dizziness, are anesthetic and may have other CNS effects. Low order of toxicity; INGESTION- Low order of toxicity. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.
 HMIS: H-1, F-3, R-0

4. FIRST AID MEASURES

Inhalation: Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.
Skin Contact: Immediately flush with large amounts of water, use soap if available. Remove contaminated clothing, including shoes, after flushing has begun.
Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, including under the eyelids. Get prompt medical attention.
Ingestion: If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Water spray, dry chemical, carbon dioxide, alcohol foam.
Specific Hazards: Flammable liquid. Can release vapors that form flammable mixtures at or above the flashpoint. Vapors may travel a considerable distance to a source of ignition and flash back.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Eliminate all ignition sources.
Environmental precautions: Prevent liquid from entering sewers, watercourses or low areas.
Methods of cleaning up: Land Spill: Keep public away. Shut off source if possible to do so without hazard. Contain spilled liquid with sand or earth. Dilute contained spill with water. Recover by pumping or with a suitable absorbent. Consult an expert on disposal of recovered material. Water Spill: Eliminate sources of ignition. Warn occupants and shipping in downwind areas of fire and explosion hazard. Hose over spill to effect dilution of water soluble material.

7. HANDLING AND STORAGE

Handling-Precautions: Avoid contact with eyes. Wash thoroughly after handling.
Safe handling Advice: Flammable liquid. Keep away from heat, sparks and open flames. This material is not a static accumulator but use proper grounding equipment.
Storage-Conditions: Keep container closed. Handle containers with care. Store in a cool, well ventilated area away from incompatible materials. Protect material from direct sunlight.
Incompatible Products: Strong oxidizing agents.

Product Name: L-200 CLEANER

Revision: May 18, 1998

Product Code: I0225

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures or otherwise to maintain ambient concentration below the recommended threshold exposure limits.

Personal Protective Equipment: Eliminate all ignition sources.

Respiratory Protection: If engineering controls do not maintain concentrations below recommended exposure limits, an approved respirator should be worn. Type: organic vapor.

Hand Protection: Where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Eye Protection: Wear safety glasses with side shields or goggles.

Skin and Body Protection: Recommended Decontamination Facilities: eye bath, safety shower, washing facilities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Colorless

Odor: Ketone

Flashpoint: -4° C (25° F)

Autoignition temperature: >450° C (>842° F)

pH: N/A

Density: 0.806

Vapor Pressure: 83 mm Hg @ 75° F

Vapor Density: >1

Solubility in Water: 26.3% @ 68° F

Boiling Point: 78.5-81° C (175-177° F)

Freezing Point: -86° C (-123° F)

V.O.C.: 806 g/l

Evaporation rate(Butyl Acetate=1): 6.0

10. STABILITY AND REACTIVITY

Stable: Yes **Conditions to avoid:** Avoid heat, sparks and open flames.

Materials to avoid: Strong oxidizing agents

Hazardous decomposition products: No unusual

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Oral LD50 (rat) 1.87-6.5 g/kg; Oral LD50 (mouse) 4.5 g/kg; Inhalation LC50 (rat) >20,000 ppm/hour; Dermal LD50 (rabbit) 4.0 g/kg

Chronic Toxicity: There is no evidence that exposure to MEK alone causes progressive or irreversible neurotoxic effects. However, simultaneous overexposure to MEK and N-Hexane can potentiate the known irreversible effects of N-Hexane.

Sensitization: No

Specific Effects: None

12. ECOLOGICAL INFORMATION

Possible Environmental Effects: This substance is relatively volatile and will evaporate from water and soil over the course of a few days. This substance is expected to biodegrade rapidly and be "readily" biodegradable under OECD guidelines. This substance is expected to be removed in a wastewater treatment plant. Low acute toxicity to aquatic organisms is expected.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with all local, state, and federal regulations. EPA hazardous waste- D001 Flammable, D035, F003

14. TRANSPORT INFORMATION

Land: (DOT)- regulated, Flammable liquid, Class 3, packaging group II, Proper Shipping Name: Methyl Ethyl Ketone, UN 1193

Inland Waterways: (AND/R)- regulated, class 3; Item 3b; Transport number 19

Sea: (IMDG)- regulated, IMO class 3.2; EMS number 3-07; Risk label 3; Proper Shipping Name- Methyl Ethyl Ketone; IMDG Code, Page No. 3226; MFAG number 300; Packaging group II

Air: (ICAO/IATA)- regulated, Flammable Liquid; Class 3, Packing Group II; Proper shipping name- Methyl Ethyl Ketone

15. REGULATORY INFORMATION

Hazard and Safety Information: California Prop 65- listed; PA hazardous substance list- listed; WHMIS (Canada)- listed; IARC, NTP- not listed; SARA 313- listed; SARA 311,312- Acute health hazard, chronic health hazard, fire hazard; TSCA- listed; EINECS- listed, #201-159-0

Ozone Depleting Chemicals Present: None

16. OTHER INFORMATION

Containers of this material may be hazardous when emptied, all hazard precautions given in the data sheet must be observed. The information contained herein is based upon what we believe to be reliable data. However, we make no warranty or guarantee, expressed or implied, concerning the accuracy of such information and disclaim all liability from reliance thereon. You should evaluate the information through your own sources prior to use.

Reference ISO 11014-1



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD DELETE REVISED 1 Page _____ of _____ 2

FACILITY ID#	30035	BUSINESS NAME	ARON THOMAS COMPANY INC.
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I. FACILITY INFORMATION

CHEMICAL LOCATION
7421 CHAPMAN AVE. GARDEN GROVE CA. 92841

CONFIDENTIAL LOCATION EPCRA Yes No 5 MAP # 1 6 GRID # USED IN ALL AREAS 7

II. CHEMICAL INFORMATION

CHEMICAL NAME: H1895 WASTE Yes 8 TRADE SECRET Yes No 11
* If EPCRA see instructions

COMMON NAME: Hot Melt Adhesive (H1895) 9 An EHS Chemical Yes No 12
* If EHS is "Yes", all amounts must be LBS

CAS # 64742-51-4 10 FIRE CODE HAZARD CLASSES (supplied by GGFD) 13
8002-74-2, 64742-43-4 N/A NOT-REQUIRED (NOT-TOXIC, NON-HALAZD)

TYPE (Check one item only) a. PURE b. MIXTURE c. WASTE 14 RADIOACTIVE Yes No 15 CURIES 16

PHYSICAL STATE (Check one item only) a. SOLID b. LIQUID c. GAS 17 HED HAZARD CATEGORIES a. FIRE b. REACTIVE c. PRESSURE RELEASE 18
 d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 2000 POUNDS 19 MAXIMUM DAILY AMOUNT 4000 POUNDS 20 ANNUAL WASTE AMOUNT 0 21 STATE WASTE CODE 22

UNITS a. GALLONS b. CUBIC FEET 23 DAYS ON SITE 365 24 LARGEST CONTAINER 50 POUNDS 25
 c. POUNDS d. TONS
* If EHS, amount must be in pounds.

STORAGE CONTAINER (Check all that apply) a. ABOVEGROUND TANK e. PLASTIC DRUM i. VAT m. CYLINDER q. TANK WAGON 26
 b. UNDERGROUND TANK f. NONMETALLIC DRUM j. FIBER DRUM n. GLASS CONTAINER r. RAIL CAR
 c. TANK INSIDE BLDG g. METAL CONTAINER k. BAG(S) o. PLASTIC CONTAINER s. TOTE BIN
 d. STEEL DRUM h. CARBOY l. BOX(S) p. IN MACH OR EQUIP t. OTHER

STORAGE PRESSURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT 27

STORAGE TEMPERATURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC 28

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	29 N/A	30 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 31	32
2	29	30 <input type="checkbox"/> Yes <input type="checkbox"/> No 31	32
3	29	30 <input type="checkbox"/> Yes <input type="checkbox"/> No 31	32
4	29	30 <input type="checkbox"/> Yes <input type="checkbox"/> No 31	32
5	29	30 <input type="checkbox"/> Yes <input type="checkbox"/> No 31	32

* If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

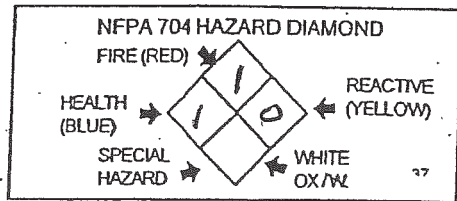
PLACARDING INFORMATION

UNDOT # NON ISSUED, NOT REQUIRED 33
Refer to shipping papers or MSDS

DOT HAZARD CLASS 34
Refer to shipping papers or MSDS

EPCRA YES NO 35

X 36
If EPCRA, Please Sign Here.



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product name	H1895
Product name(s) covered	See Section 16 for Product Names Covered.
MSDS name	Hot Melt
CAS number	Mixture
Product use	Case & Carton Adhesive
Generic description	Hot Melt Adhesive
Manufacturer	Bostik, Inc. 11320 Watertown Plank Road Wauwatosa, WI 53226 U.S.A.
24 hour emergency assistance	Telephone: 1-800-227-0332
General assistance	Telephone: 1-414-774-2250
MSDS assistance	Telephone: 1-414-607-1224

2. COMPOSITION / INFORMATION ON INGREDIENTS

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

Emergency overview	Extended contact with this material may cause irritation to the skin, eyes, and mucous membranes. Contact with molten material will cause thermal burns. Primary Routes of Exposure: eyes, skin, and inhalation.
Potential health effects	
Skin	Molten material will produce burns to skin areas.
Eyes	HOT MOLTEN material can cause irreversible eye injury and burns. Contact with SOLID material may cause irritation with temporary redness with stinging and tearing.
Inhalation	Inhalation of hot mist may cause respiratory irritation.
Ingestion	Exposure is unlikely. This product can cause gastrointestinal irritation, nausea, vomiting; and diarrhea. Molten material will produce burns to the gastrointestinal tract.
Target organs	None known for product as a whole.
Fire and explosion	This product will not ignite under normal situations but can be ignited in the extreme heat associated with a fire. Vapors are lighter than air and should rise, accumulating in overhangs and ceilings. In a fire situation, exposed containers may build up pressure and burst explosively spewing hot material. Irritating and potentially harmful vapors may be released in a fire or spill situation.
Hazard statements	This product contains paraffin wax (CAS#s 8002-74-2, 64742-43-4 and/or 64742-51-4). Upon application of heat during use of this product in molten form, paraffin wax fume may be generated. American Conference of Governmental Industrial Hygienists (ACGIH) recommends a TLV of 2 mg/cu.m for paraffin wax fume. See Section 8 for recommended ventilation. Under normal conditions, paraffin wax fume generation should present no significant health hazard.

4. FIRST AID MEASURES

First aid	
Skin	For contact with molten product, do not remove any material or clothing adhering to the skin. Flush the burned area immediately with large amounts of cold water. If it is possible, submerge the area in cold water. Immediately seek medical attention or contact a physician.
Eye	If molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately. See Notes to Physician.
Inhalation	Remove to fresh air. Get medical attention immediately for a large dose exposure or if cough or other symptoms develop.
Ingestion	If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Notes to physician

Burns should be treated as thermal burns. The material will come off as healing occurs, therefore, immediate removal from skin is not necessary, as it may cause additional harm to the skin.

5. FIRE FIGHTING MEASURES

Hazardous combustion products	Decomposition can produce hazardous chemicals. Carbon monoxide, carbon dioxide, acetic acid, vinyl acetate, and other unknown products may be produced during combustion.
Extinguishing media	Use dry chemical, carbon dioxide, or foam. Do not use water on molten adhesive to avoid splattering and spreading of fire.
Dust explosion hazard	None Known
Sensitivity to mechanical impact	None Known
Sensitivity to static discharge	None Known
Unusual fire & explosion hazards	Do not use water on molten adhesive to avoid splattering and spreading of fire.
Fire fighting equipment/instructions	Firefighters should wear full protective clothing including self contained breathing apparatus.
Flash point	> 400 °F (> 204.4 °C)

6. ACCIDENTAL RELEASE MEASURES

Emergency action	Appropriate safety measures and protective equipment should be used. See Section 8. Dispose of as solid waste in compliance with local, state, and federal regulations.
Containment	Isolate spill area. Stop discharge if safe to do so. Pellet or chip spill: Collect and contain for salvage or disposal. Molten adhesive spill: Placard hot material, allow to cool and remove. Collect and contain for salvage or disposal. Stop material from contaminating soil or from entering sewers or water streams.
Reporting	See Federal reporting requirements listed in Section 15. We recommend you contact local authorities to determine if there may be other local reporting requirements.

7. HANDLING & STORAGE

For Commercial Use Only - Not Packaged or Labeled for Home Use!

Handling	Avoid contact with skin and eyes. Avoid contact with molten material. Wash hands thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles, face shields, and gloves. Professionally launder contaminated clothing before re-use. Avoid breathing fumes if this product is used at high temperatures. Use this product with adequate ventilation.
Storage	Store in a clean, dry area. Keep containers closed.
Empty container precaution	Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption, or where skin contact can occur.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls	Use local exhaust ventilation when vapors, mists, or dusts are being generated. Suitable respiratory equipment should be used when insufficient ventilation or operational procedures demand it.
Eye protection	Wear goggles or safety glasses with side shields. Contact lenses should not be worn.
Skin and body protection	Cover as much of exposed skin as possible. Wear protective clothing that provides protection against skin exposure and thermal burns, including long-sleeved protective shirt, long pants, work shoes/boots, hard hat, face shield, and long-cuffed, rubber, thermal insulating gloves.
Respiratory protection	None required where adequate ventilation conditions exist. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.
General	Eye wash fountain and emergency showers should be readily available.

9. PHYSICAL & CHEMICAL PROPERTIES

Viscosity	625 CPS @ 350.6 °F (177 °C) BROOKFIELD
Softening point	225 °F (107.2 °C)
Target solids	100 %
Density	0.96 g/cc

Odor	Negligible
Color	White
Physical state	Solid
Freeze protect	No

10. STABILITY & REACTIVITY

Hazardous reactions/decomposition products	If product is burned carbon monoxide, carbon dioxide, acetic acid, vinyl acetate, and other unknown products may be produced.
Hazardous polymerization	Will not occur.
Conditions to avoid	Do not add water or other volatile material to molten adhesive. Avoid excessive overheating.
Stability	Stable under normal conditions. Avoid water sensitive materials such as acids or alkalis or sodium and other metallic hydrides.

11. TOXICOLOGICAL INFORMATION

Toxicological data If any toxicological data is available, it will be listed below:

12. ECOLOGICAL INFORMATION

Bostik's hot melt adhesives are manufactured without the intentional use of volatile organic compounds and/or hazardous air pollutants regulated by the EPA in the Clean Air Act Amendment of 1990.

Ecotoxicological information No data available for this product.

13. DISPOSAL CONSIDERATIONS

It is the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable local, state and federal regulations.

Waste disposal This product as supplied is not considered a hazardous waste under RCRA. Dispose of in compliance with all local, state, and federal regulations. Recommended disposal method is incineration.

14. TRANSPORT INFORMATION

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

All components are on the U.S. EPA TSCA Inventory List.

This MSDS is prepared and distributed pursuant to the Federal Hazard Communication Standard, 29 CFR 1910.1200.

State regulations If this product contains any ingredients listed under California Proposition 65, they will be noted below:

International regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and contains all the information required by the Controlled Products Regulations.
All components are included on the Canadian Domestic Substances List (DSL).

HMIS Ratings	Health: 1 Flammability: 1 Physical hazard: 0 Personal protection: X
SARA 311/312 HAZARD CATEGORIES	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
WHMIS status	Non-controlled

16. OTHER INFORMATION

Disclaimer The data in this MSDS has been compiled from publicly available sources. This data relates only to the designated product and not to the use of said product in combination with other materials. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Responsibility for proper precautions and safe use of the product lies with the user. All data in this MSDS is typical of the product as a whole, and does not represent any individual lot or batch, therefore, Bostik, Inc. makes no warranty about the accuracy of the data herein and assumes no liability for the use of such data. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

Further information Any characters following " H1895 " are just designations for the various types of packaging that are available for this product. These characters do not indicate a different product nor a different regulatory, health, safety and/or environmental status. This document covers the H1895 for all of its packaging types.

Issue date 01/10/2008

Prepared by Pam Larsen



PRODUCT NAME: H1895

See end of document for Package(s) covered

MSDS NAME: Hot Melt

DESCRIPTION: Hot Melt Adhesive

SUGGESTED USES: Case and Carton Applications

CHARACTERISTICS: Excellent pot stability, low viscosity, and clean machining.

TECHNICAL PROPERTIES:

Thermosel Viscosity
(Brookfield - ASTM D3236)

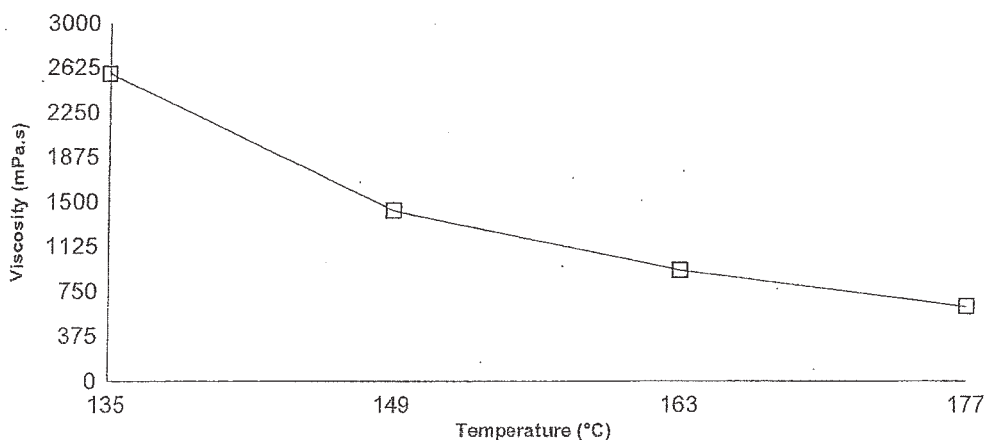
Approximately
625 cPs @ 350 °F (176.7 °C)
925 cPs @ 325 °F (162.8 °C)
1425 cPs @ 300 °F (148.9 °C)
2575 cPs @ 275 °F (135 °C)

Softening Point - 225 °F (107.2 °C)
Ring and Ball (Herzog - ASTM E28)

Suggested Running Temperature: 300 - 350 °F (148.9 - 176.7 °C)

Density
0.96 g/cc @ 77

Typical Viscosity Curve



APPLICATION CHARACTERISTICS:

H1895

For performance test characteristics please contact your Bostik sales or technical representative.

STORAGE:

Can be stored 730 days in a clean dry place, in its original package at an average temperature of 25°C or below. Storage temperature should not exceed 40°C.

PACKAGING:

For packaging options please call your Bostik sales or technical representative.

SAFETY AND HANDLING:

Clean-up Procedure: Mineral oil or paraffin wax, not to exceed flash point as stated on the MSDS, followed by a thorough purge with the adhesive itself.

Material Safety Data Sheet should be consulted for proper handling before use.

Wear safety gloves and goggles when handling molten adhesive to minimize the risk of burns.

Keep containers covered to minimize contamination.

FURTHER INFORMATION:

Any characters following " H1895 " are just designations for the various types of packaging that are available for this product. These characters do not indicate a different product nor a different regulatory, health, safety and/or environmental status. This document covers the H1895 for all of its packaging types.

Print Date

15-JAN-2008

The information given and recommendations made herein are based on Bostik's research only and are not guaranteed to be accurate. The performance of the product, its shelf life, and application characteristics will depend on many variables, including the kind of materials to which the product will be applied, the environment in which the product is stored or applied, and equipment used for application. Any change in any of these variables can affect the product's performance. Buyers are advised to make their own tests to determine whether the product is suitable for their purposes under their own operating conditions. Bostik accepts no responsibility for the performance of the product for any particular customer or any particular use. Bostik does not warrant the product's suitability for any particular application. The product is sold only pursuant to Bostik's terms and conditions of sale and only subject to the limited warranty contained therein.

BOSTIK SELLS THE PRODUCT WITHOUT WARRANTY AS TO MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ANY WARRANTY FROM COURSE OF DEALING OR USAGE OF TRADE, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, AND BUYERS AND USERS ASSUME ALL RESPONSIBILITY AND LIABILITY FOR LOSS OR DAMAGE ARISING FROM THE HANDLING AND USE OF BOSTIK'S PRODUCTS. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent. Unless otherwise agreed to in writing, THE BUYER'S SOLE REMEDY FOR NONCOMPLIANCE WITH ANY WARRANTY SHALL BE THE REPLACEMENT OF THE PRODUCT OR REFUND OF THE BUYER'S PURCHASE PRICE. IN NO CASE WILL BOSTIK BE LIABLE FOR INDIRECT, CONSEQUENTIAL, INCIDENTAL, ECONOMIC OR OTHER SIMILAR DAMAGES.

Bostik, Inc. 11320 Watertown Plank Road
Telephone: 414-774-2250

Wauwatosa, WI 53226-3434
Fax: 414-774-8075



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD

DELETE

REVISED 1

Page _____ of _____ 2

FACILITY ID#	30035	38	BUSINESS NAME	AAROO THOMAS COMPANY INC.	3
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I: FACILITY INFORMATION

CHEMICAL LOCATION	7421 CRAPMAN AVE. GARDEN GROVE CA. 92841			4				
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input type="checkbox"/> No	5	MAP #	1	6	GRID #	USED IN ALL AREAS	7

II. CHEMICAL INFORMATION

CHEMICAL NAME	SOUTHWEST CHEMICAL HM-077		WASTE	<input type="checkbox"/> Yes <input type="checkbox"/> No	8	TRADE SECRET	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11
COMMON NAME	HOT MELT ADHESIVE (HM-077)		* If EPCRA see instructions		9	An EHS Chemical	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12
CAS #		N/A	FIRE CODE HAZARD CLASSES (supplied by GGF)		10	* If EHS is "Yes", all amounts must be LBS		

TYPE (Check one item only)	<input type="checkbox"/> a. PURE	<input checked="" type="checkbox"/> b. MIXTURE	<input type="checkbox"/> c. WASTE	14	RADIOACTIVE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15	CURIES	16
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PHYSICAL STATE (Check one item only)	<input checked="" type="checkbox"/> a. SOLID	<input type="checkbox"/> b. LIQUID	<input type="checkbox"/> c. GAS	17	FED. HAZARD CATEGORIES	<input type="checkbox"/> a. FIRE	<input type="checkbox"/> b. REACTIVE	<input type="checkbox"/> c. PRESSURE RELEASE	18
					<input type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH				

AVERAGE DAILY AMOUNT	2000 POUNDS	19	MAXIMUM DAILY AMOUNT	4000 POUNDS	20	ANNUAL WASTE AMOUNT	0	21	STATE WASTE CODE	22
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UNITS	<input type="checkbox"/> a. GALLONS	<input type="checkbox"/> b. CUBIC FEET	<input checked="" type="checkbox"/> c. POUNDS	<input type="checkbox"/> d. TONS	23	DAYS ON SITE	365	24	LARGEST CONTAINER	50 POUNDS	25
* If EHS, amount must be in pounds.											

STORAGE CONTAINER (Check all that apply)	<input type="checkbox"/> a. ABOVEGROUND TANK	<input type="checkbox"/> b. UNDERGROUND TANK	<input type="checkbox"/> c. TANK INSIDE BLDG	<input type="checkbox"/> d. STEEL DRUM	<input type="checkbox"/> e. PLASTIC DRUM	<input type="checkbox"/> f. NONMETALLIC DRUM	<input type="checkbox"/> g. METAL CONTAINER	<input type="checkbox"/> h. CARBOY	<input type="checkbox"/> i. VAT	<input type="checkbox"/> j. FIBER DRUM	<input checked="" type="checkbox"/> k. BAG(S)	<input checked="" type="checkbox"/> l. BOX(S)	<input type="checkbox"/> m. CYLINDER	<input type="checkbox"/> n. GLASS CONTAINER	<input type="checkbox"/> o. PLASTIC CONTAINER	<input type="checkbox"/> p. IN MACH OR EQUIP	<input type="checkbox"/> q. TANK WAGON	<input type="checkbox"/> r. RAIL CAR	<input type="checkbox"/> s. TOTE BIN	<input type="checkbox"/> t. OTHER	26
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STORAGE PRESSURE	<input checked="" type="checkbox"/> a. AMBIENT	<input type="checkbox"/> b. ABOVE AMBIENT	<input type="checkbox"/> c. BELOW AMBIENT	27
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STORAGE TEMPERATURE	<input checked="" type="checkbox"/> a. AMBIENT	<input type="checkbox"/> b. ABOVE AMBIENT	<input type="checkbox"/> c. BELOW AMBIENT	<input type="checkbox"/> d. CRYOGENIC	28
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%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #			
1	29	N/A	30	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	31	32
2	29		30	<input type="checkbox"/> Yes <input type="checkbox"/> No	31	32
3	29		30	<input type="checkbox"/> Yes <input type="checkbox"/> No	31	32
4	29		30	<input type="checkbox"/> Yes <input type="checkbox"/> No	31	32
5	29		30	<input type="checkbox"/> Yes <input type="checkbox"/> No	31	32

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

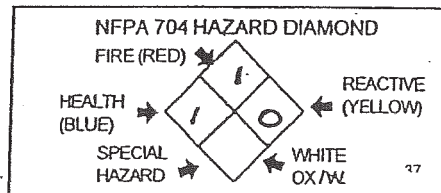
PLACARDING INFORMATION

UNDOT # NON-ISSUED, NOT REQUIRED 33
Refer to shipping papers or MSDS

DOT HAZARD CLASS _____ 34
Refer to shipping papers or MSDS

EPCRA YES NO 35

X _____ 36
If EPCRA, Please Sign Here



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

WARREN ADHESIVES
P.O. BOX 8737 MOBILE, AL 36689 — 7860 Zeigler Blvd. Mobile, AL 36608
TELEPHONE: 251-633-5034

24-HOUR EMERGENCY CONTACT NUMBER: 1-877-790-0614

MATERIAL SAFETY DATA SHEET

DATE PUBLISHED: 6/5/2009

TRADE NAME: Southern Chemical HM-077

MSDS sheets are re-written every (2) year's

or/as

OSHA, Federal or State regulations are revised.

SYNONYMS: Hot Melt Adhesive

INGREDIENTS

Material or Component	Cas No.	Hazard Data
Contains no ingredients Subject to requirements of OSHA Hazard Communication Standards (29CFR1910.1200)		

PHYSICAL DATA

Boiling Point:	N/A	Softening Point:	Approx. 240° F
Specific Gravity:	0.99	Vapor Pressure:	N/A
Vapor Density:	N/A	Solubility in Water:	N/A
% Volatiles By Vol.:	N/A	Evaporation Rate:	N/A
Appearance & Odor:	Light / Sweet	pH (as is):	N/A

VOC: No levels of volatile organic compound emissions are expected at ambient temperature and pressure. Low molecular weight hydrocarbons may be emitted at application temperature. Monitoring actual plant conditions best develops emission data.

FIRE AND EXPLOSION DATA

Flash Point (Test Method): > 500° F CoC	Autoignition Temperature :
Flammable Limits In Air:	N/A Lower: N/A Upper: N/A
Extinguishing Media:	CO , chemical foam and dry chemical
Special Fire Fighting Procedures:	Avoid getting water on hot melt to avoid spreading fire.
Unusual Fire & Explosion Hazard:	None known

HEALTH HAZARD INFORMATION

Health Hazard Data	Hazard Classification	Source
Inhalation:	Non to mild irritant	Supplier
Skin Contact:	Causes severe burns when hot	Supplier
Skin Absorption:	Non irritant Avoid contact with hot glue	Supplier
Eye Contact:	Causes severe burns when hot	Supplier
Ingestion:	Non to mild irritant	Supplier

EFFECTS OF OVEREXPOSURE

Acute Overexposure:	None at ambient temperatures. Excessive high temperatures may produce irritating fumes.
Chronic Overexposure:	Unknown

EMERGENCY AND FIRST AID PROCEDURES

Eyes:	Seek immediate medical attention.
Skin:	For burns, immerse contact area in cold water immediately. Do not attempt to remove set hot melt from skin.
Inhalation:	Remove to fresh air.
Ingestion:	None

REACTIVITY DATA

Conditions Contributing
To Instability:

Stable

Incompatibility:

Contact with strong oxidizing substances

Hazardous Decomposition Products:

Thermal decomposition products include CO, CO2 and smoke

Conditions Contributing To
Hazardous Polymerization:

Will not occur

DISPOSAL, SPILL OR LEAK PROCEDURES

Aquatic Toxicity:

Waste Disposal Method:

Dispose of the solid waste in accordance with existing Federal, State and Local regulations.

Steps To Be Taken
If Material Is Released
Or Spilled:

Allow to solidify at room temperature, scoop up and put in disposal container.

SPECIAL PROTECTION INFORMATION

Ventilation Requirements:

At application temperatures, use of local exhaust is recommended

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

Respiratory:

No special requirements

Eye:

Safety glasses

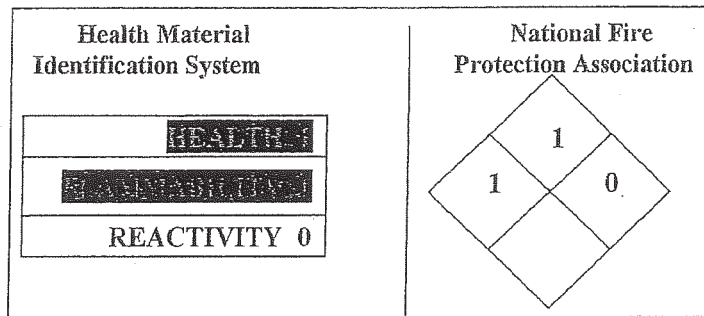
Gloves:

Thermally protective gloves

Other Clothing
& Equipment:

Cold water source for burns

**HEALTH MATERIAL IDENTIFICATION SYSTEM
AND NATIONAL FIRE PROTECTION ASSOCIATION RATINGS**



See Specific Personal Protection section for personal protective equipment recommendations

SPECIAL PRECAUTIONS

Precautionary
Statements:

USE EXTREME CARES WHEN WORKING WITH HOT
MELTS IN THE HOT MOLTEN, FLUID STATE. SEVERE
BURNS CAN RESULT IF SKIN CONTACT OCCURS.

Other Handling And
Storage Requirements:

NONE

Additional Regulatory
Concerns:

NONE

Federal:

State:

Other:

PREPARED BY: John S. Warren, Jr.

TITLE: President

COMPANY: SOUTHERN CHEMICAL FORMULATORS, INC.

ADDRESS: 7860 Zeigler Blvd., Mobile, AL 36608

TECHNICAL DATA

WARREN ADHESIVES
P.O. BOX 8737 MOBILE, AL 36608
TELEPHONE: (251) 633-5034
FAX: (251) 633-4210

June 5, 2009

HM-077 HOT MELT ADHESIVE

APPLICATION: Case and carton sealing

VISCOSITY: 1600 cps @ 350° F

**SOFTENING
POINT:** 236° F

SOLIDS: 100%

FORM: Slats/Chicklet Form

COLOR: Yellow

GENERAL

INFORMATION: HM-077 is an extremely fast setting hot melt for packaging operations. It exhibits excellent bonds on a wide variety of board and coated chip stock. Very versatile. It has excellent heat stability and medium viscosity for good machining on all standard hot melt application equipment. HM-077 exhibits aggressive tack, which is important where short compression sections are encountered.

HANDLING: To avoid accidental contamination, keep container covered as soon as sufficient hot melt has been removed for use. Do not store in high temperature areas.

SAFETY: No health hazards are expected with HM-077 in its solid form. Once melted, it is like any hot liquid in that it can produce severe burns. Care should be taken to avoid getting the hot liquid adhesive on the skin. If this occurs, flush the affected area with large amounts of cold water. Do not try to remove the solidified hot melt. Seek medical attention immediately.

FDA STATUS: All ingredients in HM-077 are approved under the Federal regulation 21 CFR 175.105 which relates to incidental contact of adhesive with food.



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD DELETE REVISED 1

Page _____ of _____ 2

FACILITY ID# 3 0 0 3 5	BUSINESS NAME AARON THOMAS COMPANY INC.
---------------------------	--

I. FACILITY INFORMATION

CHEMICAL LOCATION
7421 CHARMAD AVE. GARDEN GROVE CA. 92841

CONFIDENTIAL LOCATION EPCRA Yes No 5 MAP # 1 6 GRID # USED IN ALL AREAS 7

II. CHEMICAL INFORMATION

CHEMICAL NAME ETACLEDE VINYL ACETATE WASTE Yes 8 TRADE SECRET Yes No 11
* If EPCRA see instructions

COMMON NAME HOT MOLT ADHESIVE (HM-056) 9 An EHS Chemical Yes No 12
*If EHS is "Yes", all amounts must be LBS

CAS # N/A 10 FIRE CODE HAZARD CLASSES (supplied by GGFD) N/A NONE REQUIRED (POD-TOXIC, NON-HAZARD) 13

TYPE (Check one item only) a. PURE b. MIXTURE c. WASTE 14 RADIOACTIVE Yes No 15 CURIES 16

PHYSICAL STATE (Check one item only) a. SOLID b. LIQUID c. GAS 17 FED HAZARD CATEGORIES a. FIRE b. REACTIVE c. PRESSURE RELEASE 18
 d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 2000 POUNDS 19 MAXIMUM DAILY AMOUNT 4000 POUNDS 20 ANNUAL WASTE AMOUNT 0 21 STATE WASTE CODE 22

UNITS a. GALLONS b. CUBIC FEET 23 DAYS ON SITE 365 24 LARGEST CONTAINER 50 POUNDS 25
 c. POUNDS d. TONS
*If EHS, amount must be in pounds.

STORAGE CONTAINER (Check all that apply) a. ABOVEGROUND TANK e. PLASTIC DRUM i. VAT m. CYLINDER q. TANK WAGON 26
 b. UNDERGROUND TANK f. NONMETALLIC DRUM j. FIBER DRUM n. GLASS CONTAINER r. RAIL CAR
 c. TANK INSIDE BLDG g. METAL CONTAINER k. BAG(S) o. PLASTIC CONTAINER s. TOTE BIN
 d. STEEL DRUM h. CARBOY l. BOX(S) p. IN MACH OR EQUIP t. OTHER

STORAGE PRESSURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT 27

STORAGE TEMPERATURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC 28

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	29 N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 30	31 32
2	29	<input type="checkbox"/> Yes <input type="checkbox"/> No 30	31 32
3	29	<input type="checkbox"/> Yes <input type="checkbox"/> No 30	31 32
4	29	<input type="checkbox"/> Yes <input type="checkbox"/> No 30	31 32
5	29	<input type="checkbox"/> Yes <input type="checkbox"/> No 30	31 32

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

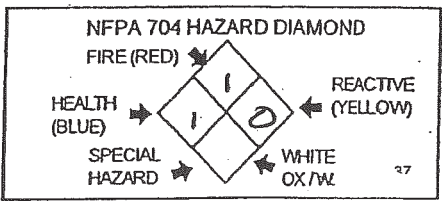
PLACARDING INFORMATION

UNDOT # NON-ISSUED, NOT REQUIRED 33
Refer to shipping papers or MSDS

DOT HAZARD CLASS 34
Refer to shipping papers or MSDS

EPCRA YES NO 35

X 36
If EPCRA, Please Sign Here



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% Volatiles By Vol.: N/A Evaporation Rate:
N/A

Appearance & Odor: Light/Resin pH (as is): N/A

FIRE AND EXPLOSION DATA

Flash Point Autoignition
(Test Method): > 500°F Temperature :

Flammable Limits In Air: N/A Lower: N/A Upper:
N/A

Extinguishing Media: CO , chemical foam, dry
chemical

Special Fire Fighting Procedures: Avoid getting water on
hot melt to avoid
spreading fire.

Unusual Fire & Explosion Hazard: None known

HEALTH HAZARD INFORMATION

Health Hazard Data	Hazard Classification	Source
Inhalation:	Non to mild irritant	Supplier
Skin Contact:	Causes severe burns when hot	Supplier
Skin Absorption:	Non irritant Avoid contact with hot glue	Supplier
Eye Contact:	Causes severe burns when hot	Supplier
Ingestion:	Non to mild irritant	Supplier

EFFECTS OF OVEREXPOSURE

Acute Overexposure: None at ambient temperatures. Excessive high temperatures may produce irritating fumes.

Chronic Overexposure: Unknown

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Seek immediate medical attention.

Skin: For burns, immerse contact area in cold water immediately. Do not attempt to remove set hot melt from skin.

Inhalation: Remove to fresh air.

Ingestion: None

REACTIVITY DATA

Conditions Contributing
To Instability: Stable

Incompatibility:

Hazardous Decomposition Products:

Conditions Contributing To
Hazardous Polymerization : Will not occur

DISPOSAL, SPILL OR LEAK PROCEDURES

Aquatic Toxicity:

Waste Disposal Method: Dispose of the solid waste in accordance with existing Federal, State and Local regulations.

Steps To Be Taken If Material
Is Released Or Spilled: Allow to solidify at room temperature, scoop up and put in disposal container

SPECIAL PROTECTION INFORMATION

Ventilation Requirements: At application temperatures, use of local exhaust is recommended

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

Respiratory: No special requirements

Eye: Safety glasses

Gloves: Thermally protective gloves

Other Clothing
& Equipment: Cold water source for burns

Jun 14 00 12:43p

ADHESIVE BROKERS

714 566 0485

P.6

Mary Elizabeth Pierce

334/633-4210

06/14/2000 10:47:02 AM P.6

SPECIAL PRECAUTIONS

Precautionary

Statements : USE EXTREME CARE WHEN WORKING WITH HOT MELTS IN
THE HOT MOLTEN, FLUID STATE. SEVERE BURNS CAN
RESULT IF SKIN CONTACT OCCURS.

Other Handling And

Storage Requirements: None

Additional Regulatory

Concerns : None

Federal:

State:

Other:

Jun 14 00 12:43p

ADHESIVE BROKERS

714 566 0485

P.7

Mary Elizabeth Pierce

334/633-4210

06/14/2000 10:47:02 AM P.7

PREPARED BY: David E. Mochling

TITLE: Hot Melt Product Manager

COMPANY: SOUTHERN CHEMICAL FORMULATORS, INC.

ADDRESS: 7860 Zeigler Blvd. Mobile, AL 36608



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD DELETE REVISED 1 Page _____ of _____ 2

FACILITY ID #	30035	BUSINESS NAME	RARON THOMAS COMPANY INC.
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I. FACILITY INFORMATION

CHEMICAL LOCATION
7421 CARRMAN AVE. FORTY FORT CA. 92841

CONFIDENTIAL LOCATION Yes No 5 MAP # 1 6 GRID # USED IN ALL AREAS 7

II. CHEMICAL INFORMATION

CHEMICAL NAME: H 1714 WASTE Yes No 8 TRADE SECRET Yes No 11

COMMON NAME: HOT MELT ADHESIVE (H1714) 9 An EHS Chemical Yes No 12

CAS # 220/DR 64742-51-4 10 FIRE CODE HAZARD CLASSES (supplied by GGFDF) 13
8002-74-2, 64742-43-4 N/A NOT-REQUIRED (NOT-TOXIC, NOT HAZARDOUS)

TYPE (Check one item only) a. PURE b. MIXTURE c. WASTE 14 RADIOACTIVE Yes No 15 CURIES 16

PHYSICAL STATE (Check one item only) a. SOLID b. LIQUID c. GAS 17 HAZARD CATEGORIES a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH 18

AVERAGE DAILY AMOUNT 2000 POUNDS 19 MAXIMUM DAILY AMOUNT 4000 POUNDS 20 ANNUAL WASTE AMOUNT 21 STATE WASTE CODE 22

UNITS a. GALLONS b. CUBIC FEET c. POUNDS d. TONS 23 DAYS ON SITE 365 24 LARGEST CONTAINER 50 POUNDS 25

STORAGE CONTAINER (Check all that apply) a. ABOVEGROUND TANK e. PLASTIC DRUM i. VAT m. CYLINDER q. TANK WAGON 26
 b. UNDERGROUND TANK f. NONMETALLIC DRUM j. FIBER DRUM n. GLASS CONTAINER r. RAIL CAR
 c. TANK INSIDE BLDG g. METAL CONTAINER k. BAG(S) o. PLASTIC CONTAINER s. TOTE BIN
 d. STEEL DRUM h. CARBOY l. BOX(S) p. IN MACH OR EQUIP t. OTHER

STORAGE PRESSURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT 27

STORAGE TEMPERATURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC 28

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
29	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
29		<input type="checkbox"/> Yes <input type="checkbox"/> No	
29		<input type="checkbox"/> Yes <input type="checkbox"/> No	
29		<input type="checkbox"/> Yes <input type="checkbox"/> No	
29		<input type="checkbox"/> Yes <input type="checkbox"/> No	

If more hazardous components are present of greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

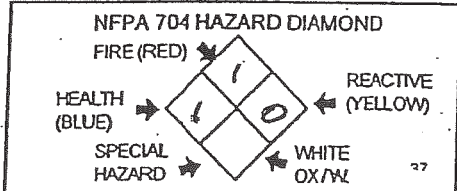
PLACARDING INFORMATION

UNDOT # NOT REGULATED AS DANGEROUS 33 6000S Refer to shipping papers or MSDS

DOT HAZARD CLASS Refer to shipping papers or MSDS 34

EPCRA YES NO 35

X If EPCRA, Please Sign Here 36



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MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product name H1714
Product name(s) covered See Section 16 for Product Names Covered.
MSDS name Hot Melt
Product use Hot Melt Adhesive
Generic description Hot Melt Adhesive
Manufacturer Bostik, Inc.
11320 Watertown Plank Road
Wauwatosa, WI 53226 U.S.A.
24 hour emergency assistance Telephone: 1-800-227-0332
General assistance Telephone: 1-414-774-2250
MSDS assistance Telephone: 1-414-607-1224

2. COMPOSITION / INFORMATION ON INGREDIENTS

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

Emergency overview Extended contact with this material may cause irritation to the skin, eyes, and mucous membranes. Contact with molten material will cause thermal burns. Primary Routes of Exposure: eyes, skin, and inhalation.

Potential health effects

Skin Molten material will produce burns to skin areas.

Eyes HOT MOLTEN material can cause irreversible eye injury and burns. Contact with SOLID material may cause irritation with temporary redness with stinging and tearing.

Inhalation Inhalation of hot mist may cause respiratory irritation.

Ingestion Exposure is unlikely. This product can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Molten material will produce burns to the gastrointestinal tract.

Target organs None known for product as a whole.

Fire and explosion This product will not ignite under normal situations but can be ignited in the extreme heat associated with a fire. Vapors are lighter than air and should rise, accumulating in overhangs and ceilings. In a fire situation, exposed containers may build up pressure and burst explosively spewing hot material. Irritating and potentially harmful vapors may be released in a fire or spill situation.

Hazard statements This product contains paraffin wax (CAS#s 8002-74-2, 64742-43-4 and/or 64742-51-4). Upon application of heat during use of this product in molten form, paraffin wax fume may be generated. American Conference of Governmental Industrial Hygienists (ACGIH) recommends a TLV of 2 mg/cu.m for paraffin wax fume. See Section 8 for recommended ventilation. Under normal conditions, paraffin wax fume generation should present no significant health hazard.

4. FIRST AID MEASURES

First aid

Skin For contact with molten product, do not remove any material or clothing adhering to the skin. Flush the burned area immediately with large amounts of cold water. If it is possible, submerge the area in cold water. Immediately seek medical attention or contact a physician.

Eye If molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately. See Notes to Physician.

Inhalation Remove to fresh air. Get medical attention immediately for a large dose exposure or if cough or other symptoms develop.

Ingestion If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Notes to physician

Burns should be treated as thermal burns. The material will come off as healing occurs, therefore, immediate removal from skin is not necessary, as it may cause additional harm to the skin.

5. FIRE FIGHTING MEASURES

Hazardous combustion products	Decomposition can produce hazardous chemicals. Carbon monoxide, carbon dioxide, acetic acid, vinyl acetate, and other unknown products may be produced during combustion.
Extinguishing media	Use dry chemical, carbon dioxide, or foam. Do not use water on molten adhesive to avoid splattering and spreading of fire.
Dust explosion hazard	None Known
Sensitivity to mechanical impact	None Known
Sensitivity to static discharge	None Known
Unusual fire & explosion hazards	Do not use water on molten adhesive to avoid splattering and spreading of fire.
Fire fighting equipment/instructions	Firefighters should wear full protective clothing including self contained breathing apparatus.
Flash point	> 400 °F (> 204.4 °C)

6. ACCIDENTAL RELEASE MEASURES

Emergency action	Appropriate safety measures and protective equipment should be used. See Section 8. Dispose of as solid waste in compliance with local, state, and federal regulations.
Containment	Isolate spill area. Stop discharge if safe to do so. Pellet or chip spill: Collect and contain for salvage or disposal. Molten adhesive spill: Placard hot material, allow to cool and remove. Collect and contain for salvage or disposal. Stop material from contaminating soil or from entering sewers or water streams.
Reporting	See Federal reporting requirements listed in Section 15. We recommend you contact local authorities to determine if there may be other local reporting requirements.

7. HANDLING & STORAGE

For Commercial Use Only - Not Packaged or Labeled for Home Use!

Handling	Avoid contact with skin and eyes. Avoid contact with molten material. Wash hands thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles, face shields, and gloves. Professionally launder contaminated clothing before re-use. Avoid breathing fumes if this product is used at high temperatures. Use this product with adequate ventilation.
Storage	Store in a clean, dry area. Keep containers closed.
Empty container precaution	Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption, or where skin contact can occur.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls	Use local exhaust ventilation when vapors, mists, or dusts are being generated. Suitable respiratory equipment should be used when insufficient ventilation or operational procedures demand it.
Eye protection	Wear goggles or safety glasses with side shields. Contact lenses should not be worn.
Skin and body protection	Cover as much of exposed skin as possible. Wear protective clothing that provides protection against skin exposure and thermal burns, including longsleeved protective shirt, long pants, work shoes/boots, hard hat, face shield, and long-cuffed, rubber, thermal insulating gloves.
Respiratory protection	None required where adequate ventilation conditions exist. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.
General	Eye wash fountain and emergency showers should be readily available.

9. PHYSICAL & CHEMICAL PROPERTIES

Target solids	100 %
pH	N/A
Density	0.98 g/cc
Odor	Negligible

Color	Light Yellow
Physical state	Solid
Freeze protect	No
VOC (Volatile Organic Compounds)	None intentionally used during manufacturing

10. STABILITY & REACTIVITY

Hazardous reactions/decomposition products	If product is burned carbon monoxide, carbon dioxide, acetic acid, vinyl acetate, and other unknown products may be produced.
Hazardous polymerization	Will not occur.
Conditions to avoid	Do not add water or other volatile material to molten adhesive. Avoid excessive overheating.
Stability	Stable under normal conditions. Avoid water sensitive materials such as acids or alkalis or sodium and other metallic hydrides.

11. TOXICOLOGICAL INFORMATION

Toxicological data If any toxicological data is available, it will be listed below:

12. ECOLOGICAL INFORMATION

Bostik's hot melt adhesives are manufactured without the intentional use of volatile organic compounds and/or hazardous air pollutants regulated by the EPA in the Clean Air Act Amendment of 1990.

Ecotoxicological information No data available for this product.

13. DISPOSAL CONSIDERATIONS

It is the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable local, state and federal regulations.

Waste disposal This product as supplied is not considered a hazardous waste under RCRA. Dispose of in compliance with all local, state, and federal regulations. Recommended disposal method is incineration.

14. TRANSPORT INFORMATION

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

All components are on the U.S. EPA TSCA Inventory List.

This MSDS is prepared and distributed pursuant to the Federal Hazard Communication Standard, 29 CFR 1910.1200.

State regulations If this product contains any ingredients listed under California Proposition 65, they will be noted below:

International regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and contains all the information required by the Controlled Products Regulations.

HMIS Ratings Health: 1
Flammability: 1
Physical hazard: 0
Personal protection: X

SARA 311/312 HAZARD CATEGORIES Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

WHMIS status Non-controlled

16. OTHER INFORMATION

Disclaimer	The data in this MSDS has been compiled from publicly available sources. This data relates only to the designated product and not to the use of said product in combination with other materials. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Responsibility for proper precautions and safe use of the product lies with the user. All data in this MSDS is typical of the product as a whole, and does not represent any individual lot or batch, therefore, Bostik, Inc. makes no warranty about the accuracy of the data herein and assumes no liability for the use of such data. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.
Further information	Any characters following " H1714 " are just designations for the various types of packaging that are available for this product. These characters do not indicate a different product nor a different regulatory, health, safety and/or environmental status. This document covers the H1714 for all of its packaging types.
Issue date	03/13/2008
Prepared by	David Priebe
Supersedes	05/22/2006
MSDS sections updated	Other Information: Disclaimer



PRODUCT NAME: H1714

See end of document for Package(s) covered

MSDS NAME: Hot Melt

DESCRIPTION: Hot Melt Adhesive

SUGGESTED USES: Case and Carton Adhesive

CHARACTERISTICS: Reduced application temperature adhesive

TECHNICAL PROPERTIES:

Thermoset Viscosity
(Brookfield - ASTM D3236)

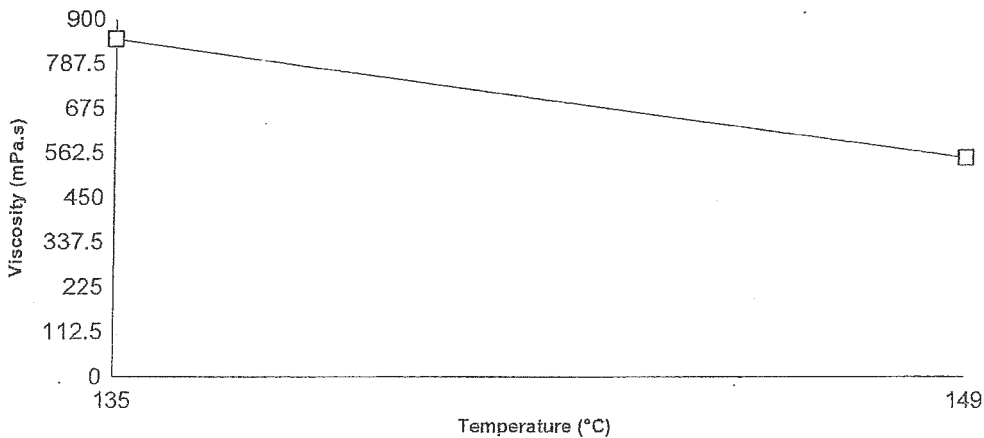
Softening Point - N/A

Approximately
@ 250
850 cPs @ 275 °F (135 °C)
550 cPs @ 300 °F (148.9 °C)

Suggested Running
Temperature: 250 - 300 °F (121.1 - 148.9 °C)

Density
0.98 g/cc @ 77

Typical Viscosity Curve



APPLICATION CHARACTERISTICS:

H1714

For performance test characteristics please contact your Bostik sales or technical representative.

STORAGE:

Can be stored 730 days in a clean dry place, in its original package at an average temperature of 25°C or below. Storage temperature should not exceed 40°C.

PACKAGING:

For packaging options please call your Bostik sales or technical representative.

SAFETY AND HANDLING:

Clean-up Procedure: Mineral oil or paraffin wax, not to exceed flash point as stated on the MSDS, followed by a thorough purge with the adhesive itself.

Material Safety Data Sheet should be consulted for proper handling before use.

Wear safety gloves and goggles when handling molten adhesive to minimize the risk of burns.

Keep containers covered to minimize contamination.

FURTHER INFORMATION:

Any characters following " H1714 " are just designations for the various types of packaging that are available for this product. These characters do not indicate a different product nor a different regulatory, health, safety and/or environmental status. This document covers the H1714 for all of its packaging types.

Print Date

07-APR-2008

The information given and recommendations made herein are based on Bostik's research only and are not guaranteed to be accurate. The performance of the product, its shelf life, and application characteristics will depend on many variables, including the kind of materials to which the product will be applied, the environment in which the product is stored or applied, and equipment used for application. Any change in any of these variables can affect the product's performance. Buyers are advised to make their own tests to determine whether the product is suitable for their purposes under their own operating conditions. Bostik accepts no responsibility for the performance of the product for any particular customer or any particular use. Bostik does not warrant the product's suitability for any particular application. The product is sold only pursuant to Bostik's terms and conditions of sale and only subject to the limited warranty contained therein.

BOSTIK SELLS THE PRODUCT WITHOUT WARRANTY AS TO MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ANY WARRANTY FROM COURSE OF DEALING OR USAGE OF TRADE, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, AND BUYERS AND USERS ASSUME ALL RESPONSIBILITY AND LIABILITY FOR LOSS OR DAMAGE ARISING FROM THE HANDLING AND USE OF BOSTIK'S PRODUCTS. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent. Unless otherwise agreed to in writing, THE BUYER'S SOLE REMEDY FOR NONCOMPLIANCE WITH ANY WARRANTY SHALL BE THE REPLACEMENT OF THE PRODUCT OR REFUND OF THE BUYER'S PURCHASE PRICE. IN NO CASE WILL BOSTIK BE LIABLE FOR INDIRECT, CONSEQUENTIAL, INCIDENTAL, ECONOMIC OR OTHER SIMILAR DAMAGES.

Bostik, Inc. 11320 Watertown Plank Road
Telephone: 414-774-2250

Wauwatosa, WI 53226-3434
Fax: 414-774-8075



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD DELETE REVISED 1 Page _____ of _____ 2

FACILITY ID#	30035	BUSINESS NAME	ARON THOMAS COMPANY, INC.
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I. FACILITY INFORMATION

CHEMICAL LOCATION	7421 CHAPMAN AV. GARDEN GROVE CA 92841		
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input type="checkbox"/> No	MAP #	1
GRID #	USED IN ALL AREAS		

II. CHEMICAL INFORMATION

CHEMICAL NAME	WASTE <input type="checkbox"/> Yes <input type="checkbox"/> No	TRADE SECRET <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
WARRER ADHESIVES HM-059		

COMMON NAME	An EHS Chemical <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
HOT MELT ADHESIVE (HM-059)	

CAS #	FIRE CODE HAZARD CLASSES (supplied by GGFDD)
N/A	N/A NONE REQUIRED (NON-TOXIC, NON HAZARD)

TYPE (Check one item only)	<input type="checkbox"/> a. PURE <input checked="" type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE	RADIOACTIVE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CURIOS
----------------------------	---	---	--------

PHYSICAL STATE (Check one item only)	<input checked="" type="checkbox"/> a. SOLID <input type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS	HAZARD CATEGORIES
		<input type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT	MAXIMUM DAILY AMOUNT	ANNUAL WASTE AMOUNT	STATE WASTE CODE
1000 POUNDS	4000 POUNDS	0	

UNITS <input type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input checked="" type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS	DAYS ON SITE	LARGEST CONTAINER
	365	50 POUNDS

STORAGE CONTAINER (Check all that apply)	<input type="checkbox"/> a. ABOVEGROUND TANK <input type="checkbox"/> e. PLASTIC DRUM <input type="checkbox"/> i. VAT <input type="checkbox"/> m. CYLINDER <input type="checkbox"/> q. TANK WAGON
	<input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> f. NONMETALLIC DRUM <input type="checkbox"/> j. FIBER DRUM <input type="checkbox"/> n. GLASS CONTAINER <input type="checkbox"/> r. RAIL CAR
	<input type="checkbox"/> c. TANK INSIDE BLDG <input type="checkbox"/> g. METAL CONTAINER <input type="checkbox"/> k. BAG(S) <input type="checkbox"/> o. PLASTIC CONTAINER <input type="checkbox"/> s. TOTE BIN
	<input type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> h. CARBOY <input checked="" type="checkbox"/> l. BOX(S) <input type="checkbox"/> p. IN MACH OR EQUIP <input type="checkbox"/> t. OTHER

STORAGE PRESSURE	<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT
------------------	--

STORAGE TEMPERATURE	<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC
---------------------	--

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
29	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
29		<input type="checkbox"/> Yes <input type="checkbox"/> No	
29		<input type="checkbox"/> Yes <input type="checkbox"/> No	
29		<input type="checkbox"/> Yes <input type="checkbox"/> No	
29		<input type="checkbox"/> Yes <input type="checkbox"/> No	

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

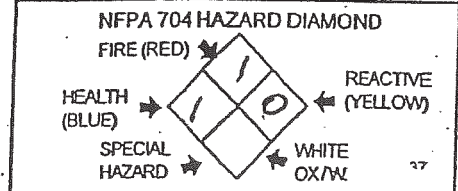
PLACARDING INFORMATION

UNDOT # NON-ISSUED, NOT REQUIRED 33
Refer to shipping papers or MSDS

DOT HAZARD CLASS _____ 34
Refer to shipping papers or MSDS

EPCRA YES NO 35

X _____ 36
If EPCRA, Please Sign Here.



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

WARREN ADHESIVES, INC.
 P.O. BOX 8737 MOBILE, AL 36689 — 7860 Zeigler Blvd. Mobile, AL 36608
 TELEPHONE: 251-633-5034

24-HOUR EMERGENCY CONTACT NUMBER: 1-877-790-0614

MATERIAL SAFETY DATA SHEET

DATE PUBLISHED: 6/5/2009

TRADE NAME: Warren Adhesives HM-059

or/as

MSDS sheets are re-written every (2) year's

OSHA, Federal or State regulations are revised.

SYNONYMS: Hot Melt Adhesive

INGREDIENTS

Material or Component	Cas No.	Hazard Data
Contains no ingredients Subject to requirements of OSHA Hazard Communication Standards (29CFR1910.1200)		

PHYSICAL DATA

Boiling Point:	N/A	Softening Point:	Approx. 180° F
Specific Gravity:	0.99	Vapor Pressure:	N/A
Vapor Density:	N/A	Solubility in Water:	N/A
% Volatiles By Vol.:	N/A	Evaporation Rate:	N/A
Appearance & Odor:	Light / Resin	pH (as is):	N/A

VOC: No levels of volatile organic compound emissions are expected at ambient temperature and pressure. Low molecular weight hydrocarbons may be emitted at application temperature. Monitoring actual plant conditions best develops emission data.

FIRE AND EXPLOSION DATA

Flash Point (Test Method): > 500° F CoC	Autoignition Temperature :
Flammable Limits In Air:	N/A Lower: N/A Upper: N/A
Extinguishing Media:	CO , chemical foam and dry chemical
Special Fire Fighting Procedures:	Avoid getting water on hot melt to avoid spreading fire.
Unusual Fire & Explosion Hazard:	None known

HEALTH HAZARD INFORMATION

Health Hazard Data	Hazard Classification	Source
Inhalation:	Non to mild irritant	Supplier
Skin Contact:	Causes severe burns when hot	Supplier
Skin Absorption:	Non irritant Avoid contact with hot glue	Supplier
Eye Contact:	Causes severe burns when hot	Supplier
Ingestion:	Non to mild irritant	Supplier

EFFECTS OF OVEREXPOSURE

Acute Overexposure:	None at ambient temperatures. Excessive high temperatures may produce irritating fumes.
Chronic Overexposure:	Unknown

EMERGENCY AND FIRST AID PROCEDURES

Eyes:	Seek immediate medical attention.
Skin:	For burns, immerse contact area in cold water immediately. Do not attempt to remove set hot melt from skin.
Inhalation:	Remove to fresh air.
Ingestion:	None

REACTIVITY DATA

Conditions Contributing To Instability: Stable

Incompatibility: Contact with strong oxidizing substances

Hazardous Decomposition Products: Thermal decomposition products include CO, CO2 and smoke

Conditions Contributing To Hazardous Polymerization: Will not occur

DISPOSAL, SPILL OR LEAK PROCEDURES

Aquatic Toxicity:

Waste Disposal Method: Dispose of the solid waste in accordance with existing Federal, State and Local regulations.

Steps To Be Taken If Material Is Released Or Spilled: Allow to solidify at room temperature, scoop up and put in disposal container.

SPECIAL PROTECTION INFORMATION

Ventilation Requirements: At application temperatures, use of local exhaust is recommended

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

Respiratory: No special requirements

Eye: Safety glasses

Gloves: Thermally protective gloves

Other Clothing & Equipment: Cold water source for burns

"ADHESIVES FOR ALL INDUSTRY SINCE 1973"

Warren Adhesives, Inc.

P.O. Box 8737

Mobile, Alabama 36689

Office (251) 633-5034

Fax (251) 633-4210

TECHNICAL DATA

06/05/09

HM-059 HOT MELT ADHESIVE

APPLICATION: Case and carton sealing - difficult substrates and freezer grade applications

VISCOSITY: 800 cps @ 350° F

SOFTENING POINT: 180° F

SOLIDS: 100% 8.0 Lbs./Gallon

FORM: Slats/Chicklet Form

COLOR: Light straw

COLD CRACK: -20 F

GENERAL INFORMATION: HM-059 was especially formulated to bond coated stock and other difficult substrates. It exhibits excellent hot tack for overall "forgiveness" and has an extended open time. Works well in all freezer grade applications where a cold crack of -20 F or higher is encountered. Suggested operating temperature is 350 F, which will result in a 10-12 second open time and typically a 96-hour pot life.

HANDLING: To avoid accidental contamination, keep container covered as soon as sufficient hot melt has been removed for use. Do not store in high temperature areas.

SAFETY: No health hazards are expected with HM-059 in its solid form. Once melted, it is like any hot liquid in that it can produce severe burns. Care should be taken to avoid getting the hot liquid adhesive on the skin. If this occurs, flush the affected area with large amounts of cold water. Do not try to remove the solidified hot melt. Seek medical attention immediately.

FDA STATUS: All ingredients in HM-059 are approved under the Federal regulation 21 CFR 175.105, which relates to incidental contact of adhesive with food.

**GARDEN GROVE FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE PROGRAM
BUSINESS EMERGENCY PLAN**

EMERGENCY NOTIFICATIONS:

A handler of hazardous materials is required to immediately report any release or threatened release of hazardous materials to the Garden Grove Fire Department. Failure to do so may result in criminal and/or civil prosecution.

REQUIRED NOTIFICATIONS:

In the event of a release or threatened release of hazardous materials, it is State law to notify each of the following agencies.

AGENCY	PHONE NUMBERS
Garden Grove Fire Department, Police, Paramedics	911
Office of Emergency Services (OES)	(800) 852-7550 or (916) 427-4341
National Response Center	(800) 424-8802
Individual responsible for calling these agencies:	

Provide the following information when you call:

- Name of the person and business
- Business street address
- Location of the incident
- Type of incident (spill, gas release, etc.)
- The name(s) of the chemical substance(s) involved
- The amount of the chemical substance(s) involved
- The extent of injuries, if any
- Possible hazards to human health and/or the environment
- Emergency call-back phone number () _____

If a chemical spill or release at your facility could create a toxic cloud or a liquid stream that could drift beyond your facility, then, identify nearby facilities that could be in imminent danger.

To the North

Facility ARMY RESERVE Phone (714) 740-1253
 Facility 7373 HUNT AVE VACANT Phone ()

To the South

Facility EVANS MANUFACTURING Phone (714) 379-6100
 Facility _____ Phone ()

To the East

Facility SOURCE ONE Phone (800) 252-7767
 Facility MICROSEMI CORPORATION Phone (714) 898-8121

To the West

Facility FOOD SERVICES Phone (714) 892-8338
 Facility 11870 HUNT AVE. VACANT Phone ()

V

**GARDEN GROVE FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE PROGRAM
BUSINESS EMERGENCY PLAN**

OPTIONAL NOTIFICATIONS:

1. Hazardous Waste Contractor
Name: CAL WEST (909) 593-7731
2. Insurance Company
Name: HARTFORD 866) 467-8730
(800) 327-3636
3. Poison Control Center - 24-Hour 1 (800) 876-4766

EVACUATION PLANS AND PROCEDURES:

Evacuation Alarms - describe the type of alarm signals that will be used to start an evacuation at this facility (vocal, paging system, manual alarm, etc.):

VOCAL

PAGING SYSTEM

Evacuation Drills

Evacuation drills and records proving you have held such drills are required by California law. The drill record does NOT have to be provided to the Fire Department with this business plan, but shall be maintained for a period of three years and shall be available for review by Fire Department personnel. The record shall include the facilitator's name, title, facility location, date of drill, and the signature of the facilitator. For your convenience, a form for recording list information is included with this packet. Make additional copies as needed.

The following four forms:

- A) Evacuation Drill Record
- B) Emergency Coordinator Task Completion Sheet
- C) Emergency Chemical Disclosure Form
- D) Training Record

These forms are designed to assist you in organizing, planning and maintaining permanent records. They are to be retained at the business, and may be requested by emergency responders upon their arrival or during your annual fire inspection.

GARDEN GROVE FIRE DEPARTMENT
EVACUATION DRILL RECORD

Business Name: AARON THOMAS COMPANY INC.

Street Address: 7421 CHAPMAN AVE. GARDEN GROVE CA. 92841

Date of Evacuation Drill: _____

Brief Description of Drill: EARTHQUAKE AND FIRE DRILL

Facilitator's Name: DANIEL VACCARELLA

Facilitator's Title: FACILITIES MANAGER

I hereby certify, under penalty of perjury, that I facilitated the evacuation drill as described above.

Signature of Facilitator: Dan Vaccarella

Date Signed: 06/09/04

Date of Evacuation Drill: _____

Brief Description of Drill: _____

Facilitator's Name: _____

Facilitator's Title: _____

I hereby certify, under penalty of perjury, that I facilitated the evacuation drill as described above.

Signature of Facilitator: _____

Date Signed: _____

THIS RECORD TO BE RETAINED AT THE BUSINESS.
MAKE ADDITIONAL COPIES OF THIS FORM AS NEEDED.

**GARDEN GROVE FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN**

Emergency Coordinator Task Completion Sheet

X Date and time the incident was reported: Date: _____

Time: _____

X Identify the nature and extent of the incident:

PRACTICE EMERGENCY EVACUATION DRILL

X Activate internal facility alarms or communication systems.

____ Notify the Fire Department.

X Designate an employee to direct emergency response units to the incident scene.

X Initiate prearranged mitigation and evacuation plans.

____ Secure all emergency shut-off valves (as required).

X Initiate internal company notifications.

X Account for all evacuated personnel.

X Have resource material available for use by responding agencies (maps, drawings, Material Safety Data Sheets (MSDS), etc.)

____ Identify actions taken by the business to control the incident.

____ Secure the incident scene to include treatment, storage or disposal of hazardous materials or waste involved.

____ Other (specify): DRILL SUCCESSFULLY COMPLETED AT

THIS RECORD TO BE RETAINED AT THE BUSINESS.

THIS FORM SHALL BE GIVEN TO THE EMERGENCY RESPONDERS
UPON THEIR ARRIVAL AT THE FACILITY.

**GARDEN GROVE FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE PROGRAM
EMERGENCY CHEMICAL DISCLOSURE FORM**

Complete the following information for all hazardous chemicals involved in or potentially affected by the incident. Make as many additional copies of this form as you may require, IN ADVANCE, and keep the copies in a convenient place for your immediate use during an emergency.

Chemical Name HYDROCARBON PETROLEUM
CAS Number (if known): 64742-94-5-91-20-3
Amount of chemical spilled or released: LESS THAN 30 GALLONS
If still spilling, the estimated amount of the chemical substance remaining in the original container. NOTE: CHEMICAL INVOLVED WAS 99% WATER AND DAWN LIQUID SOAP.

Chemical Name _____
CAS Number (if known): _____
Amount of chemical spilled or released: _____
If still spilling, the estimated amount of the chemical substance remaining in the original container. _____

Chemical Name _____
CAS Number (if known): _____
Amount of chemical spilled or released: _____
If still spilling, the estimated amount of the chemical substance remaining in the original container. _____

Chemical Name _____
CAS Number (if known): _____
Amount of chemical spilled or released: _____
If still spilling, the estimated amount of the chemical substance remaining in the original container. _____

Chemical Name _____
CAS Number (if known): _____
Amount of chemical spilled or released: _____
If still spilling, the estimated amount of the chemical substance remaining in the original container. _____

THIS FORM SHALL BE GIVEN TO THE EMERGENCY RESPONDERS
UPON THEIR ARRIVAL AT THE FACILITY.

**GARDEN GROVE FIRE DEPARTMENT
TRAINING RECORDS
FOR HAZARDOUS MATERIALS AND EMERGENCIES**

In addition to planning and conducting training programs, each employer should maintain training records for no less than three years. For your convenience, a form for recording this information is provided for your use. These reports do not have to be mailed back to the Fire Department with the Business Plan, but should be available to Fire Department personnel upon request. Make as many additional copies of these forms as you need.

Employee Name: JOAN CARLOS ISLAS
Employee Title: WAREHOUSE MANAGER
Training Provided: 40 HOUR HAZARDOUS WASTE WORKER AND 24
HOUR FIRST RESPONDERS OPERATIONS LEVEL HEALTH AND SAFETY
TRAINING
Date Completed: 8/17/2000

Employee Name: LUIS BERUMEN
Employee Title: WAREHOUSE SUPERVISOR
Training Provided: 24 HOUR FIRST RESPONDER OPERATIONS LEVEL
HEALTH AND SAFETY TRAINING
Date Completed: 8/17/2000

Employee Name: _____
Employee Title: _____
Training Provided: _____
Date Completed: _____

Employee Name: _____
Employee Title: _____
Training Provided: _____
Date Completed: _____

THIS RECORD TO BE RETAINED AT THE BUSINESS.
MAKE ADDITIONAL COPIES OF THIS FORM AS NEEDED.

**GARDEN GROVE FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN
EVACUATION PLANNING**

Describe the evacuation routes, emergency exits, and staging areas for employees in each work area at this facility. (A "staging area" is a specific location where your personnel meet after an evacuation, where you make sure everyone evacuated safely.)

1. Working area: OFFICE AREA
Evacuation route: aisle walkway directly to side doors
Emergency exits: GROUND LEVEL DOORS TO CHAPMAN AVE. PARKING LOT
Staging area: CHAPMAN AVE. PARKING LOT

2. Working area: PRODUCTION AREA 1
Evacuation route: aisle walkway to west ground level door
Emergency exits: WEST GROUND LEVEL DOOR
Staging area: HUNT AVE PARKING LOT

3. Working area: PRODUCTION AREA 2
Evacuation route: aisle walkway to west ground level door
Emergency exits: WEST GROUND LEVEL DOOR
Staging area: HUNT AVE. PARKING LOT

4. Working area: PRODUCTION AREA 3, REAR OFFICE AREA
Evacuation route: aisle walkway to exit hallway
Emergency exits: EAST GROUND LEVEL DOOR
Staging area: HUNT AVE. PARKING LOT

5. Working area: PRODUCTION AREA 4, REAR OFFICE AREA
Evacuation route: aisle walkway to exit hallway
Emergency exits: EAST GROUND LEVEL DOOR
Staging area: HUNT AVE. PARKING LOT

MAKE ADDITIONAL COPIES OF THIS FORM AS NEEDED.

**GARDEN GROVE FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN**

EMPLOYEE RESPONSIBILITIES:

Every business is required to develop an emergency plan. Part of this plan shall include the pre-assignment of important emergency duties to specific employees, and training of employees to carry out these emergency duties. Provide this information below for those employees who will carry out the emergency duties:

JOB TITLE: OPERATIONS MANAGER

EMERGENCY FUNCTION(S): _____

- a. DIRECTS ALL ASPECTS OF EVACUATION PROCEDURE
- b. DIRECTS ALL PARTICIPANTS, MANAGERS, TEAM LEADERS AND COORDINATORS
- c. _____
- d. _____

JOB TITLE: FRONT DESK RECEPTIONIST

EMERGENCY FUNCTION(S): _____

- a. WHEN INSTRUCTED, CALL EMERGENCY SERVICES. (911)
- b. MAKES GENERAL ANNOUNCEMENTS OVER PAING SYSTEM
- c. _____
- d. _____

JOB TITLE: LINE LEADER

EMERGENCY FUNCTION(S): _____

- a. ORGANIZES ASSIGNED GROUP OF EMPLOYEES AND LEADS THEM TO STAGING AREA
- b. TAKES ATTENDANCE, PRESENTS IT TO AREA SUPERVISOR, REPORTS STATUS
- c. OF CREW
- d. _____

MAKE ADDITIONAL COPIES OF THIS FORM AS NEEDED.

GARDEN GROVE FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN

EMPLOYEE RESPONSIBILITIES:

Every business is required to develop an emergency plan. Part of this plan shall include the pre-assignment of important emergency duties to specific employees, and training of employees to carry out these emergency duties. Provide this information below for those employees who will carry out the emergency duties:

JOB TITLE: AREA SUPERVISOR

EMERGENCY FUNCTION(S): ASSURES ALL ASSIGNED LINE LEADERS ARE

- a. INFORMED TO EVACUATE, ASSISTS LEADS.
- b. ASSURES THAT LEADS KNOW WHERE TO EXIT AND WHERE TO GO (STAGING AREA).
- c. CHECKS AREA FOR STRAGGLERS, EXITS FOR STAGING AREA WHEN COMPLETE
- d. OBTAINS ATTENDANCE SHEET FROM EACH LEAD, BRINGS TO PERSONNEL SUPERVISOR

JOB TITLE: PRODUCTION MANAGER (RESPONSE TEAM LEADER / EVACUATION COORDINATOR)

EMERGENCY FUNCTION(S): COORDINATES WITH OTHER RESPONSE TEAM LEADERS /

- a. EVACUATION COORDINATOR
- b. OVERSEES ALL TASKS OF AREA SUPERVISORS AND LINE LEADERS
- c. INSPECTS FACILITY FOR STRAGGLERS, EXITS FACILITY, ASSISTS AREA SUPERVISORS
- d. REPORTS TO OPERATIONS MANAGER

JOB TITLE: CUSTOMER SERVICE MANAGER (RESPONSE TEAM / EVAC. COORDINATOR)

EMERGENCY FUNCTION(S): _____

- a. ASSURES ALL OFFICE PERSONNEL ARE EVACUATED
- b. COLLECTS "MSDS" BOOK TO PRESENT TO OPERATIONS MANAGER
- c. TAKES ATTENDANCE OF ALL OFFICE AND QUALITY CONTROL PERSONNEL
- d. REPORTS ATTENDANCE STATUS TO PERSONNEL SUPERVISOR

MAKE ADDITIONAL COPIES OF THIS FORM AS NEEDED.

GARDEN GROVE FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN

EMPLOYEE RESPONSIBILITIES:

Every business is required to develop an emergency plan. Part of this plan shall include the pre-assignment of important emergency duties to specific employees, and training of employees to carry out these emergency duties. Provide this information below for those employees who will carry out the emergency duties:

JOB TITLE: PERSONNEL SUPERVISOR

EMERGENCY FUNCTION(S): _____

- MAINTAINS, PUBLISHES AND POSTS ATTENDANCE ROSTER EACH DAY BY 9:00 AM
- RETRIEVES ROSTER, EXITS TO STAGING AREA, ASSISTS LEADS IN ORGANIZING EMPLOYEES
- COMPLETES ATTENDANCE ROSTER AND REPORTS FINDINGS TO OPERATIONS
- MANAGER

JOB TITLE: MAINTENANCE MANAGER (REG. TEAM LEADER / EVAC. COORDINATOR)

EMERGENCY FUNCTION(S): _____

- ASSURES ALL MAINTENANCE PERSONNEL ARE EVACUATED
- ASSISTS VARIOUS SYSTEMS SHUT DOWN (POWER, WATER, GAS)
- ASSISTS OTHER RESPONSE TEAM LEADERS / EVACUATION COORDINATORS
- _____

JOB TITLE: WAREHOUSE MANAGER (RESPONSE TEAM LEADER / EVACUATION)

EMERGENCY FUNCTION(S): COORDINATOR

- ASSURES ALL WAREHOUSE PERSONNEL HAVE EVACUATED
- SUPERVISES SPILL CONTROL AND FIRE CONTROL COORDINATOR
- CALLS AND COORDINATES WITH OUTSIDE OFFICIAL EMERGENCY RESPONSE
- PERSONNEL

MAKE ADDITIONAL COPIES OF THIS FORM AS NEEDED.

GARDEN GROVE FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN

EMPLOYEE RESPONSIBILITIES:

Every business is required to develop an emergency plan. Part of this plan shall include the pre-assignment of important emergency duties to specific employees, and training of employees to carry out these emergency duties. Provide this information below for those employees who will carry out the emergency duties:

DATE

JOB TITLE: SPILL CONTROL COORDINATOR

EMERGENCY FUNCTION(S): _____

- a. SUPERVISES SPILL CONTROL TEAMS TO CONTAIN, ISOLATE HAZ-MAT SPILLS
- b. SUPERVISES THE TRANSPORTATION AND REMOVAL OF HAZARDOUS MATERIALS
- c. REPORTS TO WAREHOUSE MANAGER
- d. _____

JOB TITLE: FIRE CONTROL COORDINATOR

EMERGENCY FUNCTION(S): _____

- a. SUPERVISES FIRE CONTROL TEAMS TO CONTAIN AND ISOLATE (IF POSSIBLE) A FIRE
- b. IS KNOWLEDGEABLE ON THE OPERATION AND USE OF FIRE EXTINGUISHERS AND FIRE HOSES
- c. REPORTS TO WAREHOUSE MANAGER
- d. _____

DATE

JOB TITLE: PLANT MANAGER (RESPONSE TEAM LEADER / EVAC. COORDINATOR)

EMERGENCY FUNCTION(S): _____

- a. ASSISTS ALL EMERGENCY RESPONSE TEAMS
- b. REPORTS TO AND ASSISTS OPERATIONS MANAGER IN ALL ASPECTS OF
- c. EMERGENCY AND EVACUATION
- d. REPLACES OPERATIONS MANAGER IF ABSENT OR INDISPOSED

MAKE ADDITIONAL COPIES OF THIS FORM AS NEEDED.

**GARDEN GROVE FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN**

TRAINING:

Every business handling hazardous materials above the minimum limits shall provide training for their employees in the following area:

- A. Method for safe handling of hazardous materials.
- B. Procedures for notification and coordination with emergency agencies, in the event of a spill or threatened spill.
- C. Use of emergency response equipment and supplies under the control of the handler.
- D. Emergency mitigation procedures in response to a release or threatened release hazardous material.
- E. Tasks assigned to employees in the event of a hazardous materials emergency.
- F. Evacuation procedures.

Describe the type of training programs you either are currently using or will use during the next year to provide the required employee training.

A).- METHODS FOR SAFE HANDLING OF HAZARDOUS MATERIALS

1.- NEW EMPLOYEE TRAINING WITHIN 30 DAYS

2.- ANNUAL REFRESHER TRAINING

3.- VIDEO

B).- PROCEDURES FOR NOTIFICATION AND COORDINATION WITH EMERGENCY AGENCIES IN THE EVENT OF A SPILL OR THREATENED SPILL.

1.- EMERGENCY COORDINATOR SHALL NOTIFY E/F FIRE DEPARTMENT, OFFICE OF EMERGENCY SERVICES AND THE NATIONAL RESPONSE CENTER

2.- EMERGENCY COORDINATOR SHALL RECORD INCIDENT NUMBERS

C).- USE OF EMERGENCY RESPONSE EQUIPMENT AND SUPPLIES UNDER THE CONTROL OF THE HANDLER

1.- SPILL CONTROL COORDINATOR CONDUCTS ANNUAL CLASSES

2.- FIRE CONTROL COORDINATOR CONDUCTS ANNUAL FIRE CONTROL CLASSES

MAKE ADDITIONAL COPIES OF THIS FORM AS NEEDED.

**GARDEN GROVE FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN**

TRAINING:

Every business handling hazardous materials above the minimum limits shall provide training for their employees in the following area:

- A. Method for safe handling of hazardous materials.
- B. Procedures for notification and coordination with emergency agencies, in the event of a spill or threatened spill.
- C. Use of emergency response equipment and supplies under the control of the handler.
- D. Emergency mitigation procedures in response to a release or threatened release hazardous material.
- E. Tasks assigned to employees in the event of a hazardous materials emergency.
- F. Evacuation procedures.

Describe the type of training programs you either are currently using or will use during the next year to provide the required employee training.

D).- EMERGENCY MITIGATION PROCEDURES IN RESPONSE TO A RELEASE OR THREATENED RELEASE HAZARDOUS MATERIAL.

1.- EMERGENCY EVACUATION DRILL HELD YEARLY AT PREDETERMINED TIME

E).- TASKS ASSIGNED TO EMPLOYEES IN THE EVENT OF A HAZARDOUS MATERIALS EMERGENCY.

1.- ANNUAL RESPONSE TEAM LEADER TRAINING AND PROCEDURE REVIEW

F).- EVACUATION PROCEDURES

1.- EVACUATION PROCEDURES ARE POSTED, ISSUED TO ALL EMERGENCY RESPOND TEAM LEADERS

2.- EVACUATION PROCEDURES ARE REVIEW SEMI-ANNUALLY WITH ALL ESSENTIAL PERSONNEL

MAKE ADDITIONAL COPIES OF THIS FORM AS NEEDED.

**GARDEN GROVE FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN**

PREVENTION:

Part of the emergency pre-planning process is to identify potential hazards BEFORE an emergency, then either eliminate the hazard (if feasible) or prepare to handle the hazard should an emergency occur. To help you in this task, the form below is designed to help you identify potential hazards and to plan for minimizing the hazard. Complete this information for each hazardous materials storage location within your facility.

<u>HAZARDOUS MATERIALS STORAGE LOCATION</u>	<u>PREVENTATIVE MEASURE</u>
1. <u>INTERNAL PLANT STORAGE</u>	<u>FLAMABLE STORAGE LOCKERS</u>
2. <u>EXTERNAL PLANT STORAGE</u>	<u>FENCE CONTROLLED LOCATION</u>
3. <u>OUTSIDE PROPANE STORAGE</u>	<u>FENCE CONTROLLED AREA WITH</u>
4. _____	<u>LOCKS ON PUMPS</u>
5. _____	_____
6. _____	_____
7. _____	_____
8. _____	_____

Comments relating to the listed storage areas:

OUTSIDE STORAGE AREA IS BERMED AND "ERE" CART IS PRESENT
DURING OPERATIVE HOURS

Prevention measures to be taken at this location:

SMOKE CURTAIN EXHAUST FANS, FIRE HOSES AND FIRE EXTINGUISHERS ARE
INSTALLED - GLOVES, MASKS, BOOTES AND EXPLOSION PROOF PUMPS ARE PRESENT

Estimated date of completion: _____

Actual date of completion: _____

MAKE ADDITIONAL COPIES OF THIS FORM AS NEEDED.

**GARDEN GROVE FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN**

A BUSINESS IS REQUIRED BY LAW TO NOTIFY THE GARDEN GROVE FIRE DEPARTMENT WITHIN 30 DAYS OF ANY OF THE FOLLOWING EVENTS:

1. Change of business address.
2. Change of business ownership.
3. Change of business name.
4. Cessation of business operation (quitting business).
5. Use or handling of a previously undisclosed hazardous material.
6. A 100% increase in the quantity of a previously disclosed hazardous material.

IN ADDITION, IF A BUSINESS HANDLES EXTREMELY (ACUTELY) HAZARDOUS MATERIALS, THE BUSINESS MUST NOTIFY THE GARDEN GROVE FIRE DEPARTMENT WITHIN 30 DAYS OF ANY OF THE FOLLOWING EVENTS:

1. A modification, change, or addition to your facility which either increases your usage of extremely hazardous materials by 10% or greater, or substantially increases the risk in handling extremely hazardous materials at that address.

Your business is required by State law to retain a copy of this entire Business Plan, chemical inventory, material safety data sheets and site maps, for review by Fire Department personnel. State where your Disclosure and Emergency Business Plan will be kept.

COPY IS INSERTED INTO THE "MSDS BOOK"

Show location on site map also using symbol in the legend.

Note: A fee is charged for a replacement copy from the Garden Grove Fire Department.

I certify, under penalty of perjury, that the enclosed information is true and correct to the best of my knowledge.

Signature: George Ho
Name: GEORGE HO
Title: OPERATIONS MGR.
Date: 6/10/09