



**CITY OF GARDEN GROVE**  
**FIRE DEPARTMENT**

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July 24, 2019

Request #4828  
Burke D Walker  
G3 SoilWorks

Re: 14272 Commerce Drive, Garden Grove, CA 92843

Dear Mr. Walker,

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 and clean-up, as that information is provided through the County of Orange Health Department.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Amanda Pollock', written over a horizontal line.

Amanda Pollock  
*Department Secretary*



# 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: 14272 COMMERCE DR  
Occupant or DBA: TL MACHINE  
Owner/Manager: ~~CHRISTOPHER NGUYEN~~ ALEX SOTO

Date: 4061 4/1/08  
File No: 4061  
714 952 5664  
Phone: ~~714 554 8809~~ 2 17

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)
- No Violations Found

Additional Violations and/or Notes:

MAY 6<sup>TH</sup> → MAY 13<sup>TH</sup>

Responsible Party: *[Signature]* Re-inspection Date: 4-15-08

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

Fire Dept. Inspector: R. MACIAS ID #: \_\_\_\_\_

Condition Upon Re-inspection: \_\_\_\_\_ Date: 4-15-08

ADDITIONAL TWO WEEKS 4/29/08



**FIRE SAFETY SURVEY  
GARDEN GROVE FIRE DEPARTMENT**

11301 Acacia Parkway, Garden Grove, CA 92842  
Bus 714-741-5600 Fax 714-741-5640

File # 4061  
Fire District 2721  
Inspector E1 Shift A  
Next Insp 3 / 2008

Occupant or DBA VACANT TL Machine Business Phone (714)554-8800  
 Address 14272 COMMERCE Dr Suite \_\_\_\_\_ Zip 92844  
 Property Owner Thanh Ly Phon \_\_\_\_\_  
 Emergency Contact Thanh Ly Phon \_\_\_\_\_  
 Group S1 Load \_\_\_\_\_ Sprinklers F/P/N F 5 yr. Cert. 04/30/2002 Haz Mat

**Fire Permits**

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

**SIGNS**

- Provide address visible from the street (CFC 505.1)
- Provide hazardous materials warning signs (CFC 2703.5)

**EXITS**

- Provide approved panic hardware (CFC 1008.1.9)
- Remove locks, chains, bolts or bars from exit door (CFC 1008.1.8)
- Remove exit door/hardware (CFC 1008.1.8.5)  
Location \_\_\_\_\_
- Remove exit obstruction (CFC 1028.3)
- Provide illuminated exit sign(s) (CFC 1011.2)
- Provide and maintain approved emergency lighting (CFC 1006.1)

**ACCESS**

- Provide outside Knox Box (CFC 506.1)
- Remove obstructions to fire apparatus access (CFC 503.4)

**FIRE PROTECTION EQUIP. AND SYS.**

- Provide \_\_\_ extinguishers \_\_\_2A10BC \_\_\_40BC \_\_\_K (CFC 906.1)
- Service and tag extinguisher(s) (CFC 901.6)
- Hang extinguisher(s) 3.5'-5' from floor (Title 19, Sec.567.6)
- Clean filters, ducts, hood above cooking surface (CFC 904.11.6.4)
- Service auto-extinguishing system semi-annually (CFC 904.11.6.3)
- 5 yr certification on sprinkler/standpipe system (Title 19, Sect. 904)

**ASSEMBLY OCCUPANCIES**

- Post maximum occupancy load sign (CFC 1004.3)
- Remove combustible decorative material (CFC 807.1.2)
- Remove storage under stairway (CFC 315.2.2)

**ELECTRICAL SAFETY PRE-CAUTION:**

- Discontinue use of extension cords (CFC 605.6)
- Keep 30" clear for access in front of electrical panel (CFC 605.3)
- Provide/replace electrical \_\_\_cover \_\_\_socket \_\_\_power strip (CFC 605.1)  
Location \_\_\_\_\_

**HAZ-MAT SAFETY PRE-CAUTIONS**

- Complete Hazardous Materials Disclosure packet 714-741-5636 (CFC 2701.5.1)
- Provide approved cabinet if more than 10 gal. flammable liquids (CFC 3404.3.4.3)
- Provide approved safety containers(s) for flammable liquids (CFC 3404.3.1)

**MISCELLANEOUS**

- Lower storage \_\_\_18" below sprinklers or \_\_\_ 2' from ceiling (CFC 315.2.1)
- Secure compressed gas cylinders (CFC 3003.5.3)
- Post \_\_\_Business License \_\_\_Fire Department Permit (CFC 105.6)

**ADDITIONAL VIOLATIONS AND/OR NOTES**

**NO VIOLATIONS**

Business representative signature [Signature] Date 3/6/08  
 Inspector ID # Eckhardt 3567 Date 3/6/08

Cleared 3/6/08  Mailback card due / /  Re-inspection date / /  Final Notice / /

# GARDEN GROVE



## FIRE DEPARTMENT

### HAZARDOUS MATERIALS DISCLOSURE PROGRAM

#### REPORTING FORMS PACKET

**SHORT VERSION**

FOR OFFICIAL USE ONLY	
FACILITY ID NO.	<u>4061</u>
BUSINESS NAME	<u>TL Machine One</u>
BUSINESS ADDRESS	<u>14272 Commerce Drive</u>
APPROVED BY	<u>G</u> DATE <u>6/2011</u>
NEW BUSINESS	<input type="checkbox"/> YES <input type="checkbox"/> NO UPDATE _____
PICK	<u>4D</u> BUSLIST <u>  </u> CALARP: <u>  </u> CUPA: <u>  </u> GIS <u>  </u>
FEE	_____



**CITY OF GARDEN GROVE FIRE DEPARTMENT**  
 11301 Acacia Parkway, Garden Grove, CA 92842 (714) 741-5600 (714) 741-5636  
**Hazardous Materials Business Information Form**

FORM 1

Page 1 of 1

**BUSINESS INFORMATION**

FACILITY # (Supplied by GGFDD)	3 0 0 3 5	BEGINNING DATE	1	ENDING DATE	2
BUSINESS NAME	TL MACHINE INC.	5-19-2008	714	12-31-2008	5
BUSINESS SITE ADDRESS	14272 COMMERCE DRIVE				
CITY	GARDEN GROVE	STATE	CA	ZIP	92843
DUN & BRADSTREET	874820228	SIC CODE (4 DIGIT #)	3728	FIRE DISTRICT	2721
COUNTY	ORANGE				
BUSINESS OPERATOR NAME	DANIEL NGUYEN				
<b>BUSINESS OWNER</b>					
OWNER NAME	[REDACTED]				
OWNER MAILING	[REDACTED]				
CITY		STATE	CA	ZIP	''

**ENVIRONMENTAL CONTACT**

CONTACT NAME	KEITH N. YOUNG				
CONTACT MAILING ADDRESS	[REDACTED]				
CITY		STATE	CA	ZIP	''

**PRIMARY EMERGENCY CONTACTS SECONDARY**

NAME	28	NAME	33
DANIEL NGUYEN	←	QUANG LY	→
TITLE	29	TITLE	34
VPCM		FACILITIES MANAGER	
BUSINESS PHONE	30	BUSINESS PHONE	35
[REDACTED]		[REDACTED]	
24-HR. PHONE	31	24-HR. PHONE	36
[REDACTED]		[REDACTED]	
PAGER #	32	PAGER #	37
N/A		N/A	

**ADDITIONAL LOCALLY COLLECTED INFORMATION**

DESCRIBE THE TYPE OF BUSINESS OPERATION:	38	TOTAL # OF EMPLOYEES	39
MACHINING, AEROSPACE MFG.		90	
BILLING ADDRESS (IF DIFFERENT FROM BUSINESS ADDRESS)	40	ATTENTION	41
[REDACTED]		QUANG LY NGUYEN	
PROPERTY OWNER NAME			
THANH LY			
Certification: Based on my inquiry of those individuals who 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
[Signature]		5-19-08	
NAME OF SIGNER (print)	47	NAME OF DOCUMENT PREPARER (print)	49
KEITH N. YOUNG		KEITH YOUNG	
TITLE OF SIGNER	48	TITLE OF DOCUMENT PREPARER	50
TECHNICAL SALES MGR.		TECH SALES MGR.	



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

# CUPA

FACILITY INFORMATION

## BUSINESS ACTIVITIES

Page J of 1

### I. FACILITY IDENTIFICATION

FACILITY ID#	3	0	0	3	5	1. EPA ID # (Hazardous Waste Only)	CAL000280876
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BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As)

TL MACHINE, 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?

YES  NO

5.  UST FACILITY (Formerly SWRCB Form A)

YES  NO

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

- Need to report closing a UST?

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

ARP: California Accidental Release Prevention Program  
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 1 of 1 2

FACILITY ID# 300358 BUSINESS NAME TL MACHINE INC.

## I. FACILITY INFORMATION

CHEMICAL LOCATION SITE MAP 1, F7, OIL BAY REAR YARD

CONFIDENTIAL LOCATION EPCRA  Yes  No 5 MAP# 1 6 GRID# F7 7

## II. CHEMICAL INFORMATION

CHEMICAL NAME BLASOCUT 2000X WASTE  Yes 8 TRADE SECRET  Yes  No 11  
COMMON NAME CUTTING - OIL / FLUID 9 An EHS Chemical  Yes  No 12  
\*If EPCRA see instructions  
\*If EHS is "Yes", all amounts must be LBS

CAS# 64742-52-5 10 FIRE CODE HAZARD CLASSES (supplied by GGF) 13

TYPE (Check one item only)  a. PURE  b. MIXTURE  c. WASTE 14 RADIOACTIVE  Yes  No 15 CURIES N/A 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 55 19 MAXIMUM DAILY AMOUNT 110 20 ANNUAL WASTE AMOUNT 275 21 STATE WASTE CODE 221 22

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

ORAGE 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 45-65 29	SEVERELY HYDROTREATED MINERAL OIL 30	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 31	64742-52-5 32
2 30-45 29	EMULSIFIERS 30	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 31	61788-76-9 32
3 29		<input type="checkbox"/> Yes <input type="checkbox"/> No 31	
4 29		<input type="checkbox"/> Yes <input type="checkbox"/> No 31	
5 29		<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

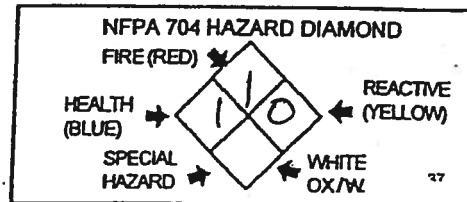
UNDOT # N/A 33

Refer to shipping papers or MSDS

DOT HAZARD CLASS N/A 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

OBSOLETE PRODUCT - USE UNTIL DEPLETED



# HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD

DELETE

REVISED 1

Page 1 of 1 2

FACILITY ID#	30035	BUSINESS NAME	TL MACHINE INC.
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## I. FACILITY INFORMATION

CHEMICAL LOCATION	SITE MAP 1, F7, OIL BAY REAR YARD
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CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	MAP #	1	GRID #	F7
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## II. CHEMICAL INFORMATION

CHEMICAL NAME	BLASOCUT-BC40 SW	WASTE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	TRADE SECRET	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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COMMON NAME	CUTTING - OIL / FLUID	An EHS Chemical	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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CAS #	64742-52-5	FIRE CODE HAZARD CLASSES (supplied by GGFD)	
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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	CURIES	N/A
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PHYSICAL STATE (Check one item only)	<input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS	FED HAZARD CATEGORIES	<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
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AVERAGE DAILY AMOUNT	55	MAXIMUM DAILY AMOUNT	110	ANNUAL WASTE AMOUNT	275	STATE WASTE CODE	221
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UNITS	<input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS	DAYS ON SITE	365	LARGEST CONTAINER	55
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ORAGE 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
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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
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%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 45-65	SEVERELY HYDROTREATED MINERAL OIL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	64742-52-5
2 30-50	EMULSIFIERS	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	68608-26-4
3		<input type="checkbox"/> Yes <input type="checkbox"/> No	
4		<input type="checkbox"/> Yes <input type="checkbox"/> No	
5		<input type="checkbox"/> Yes <input type="checkbox"/> No	

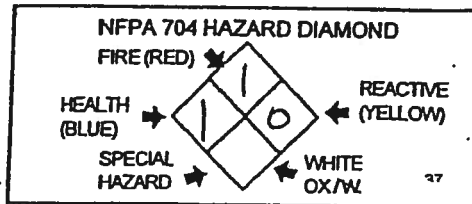
If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

## PLACARDING INFORMATION

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

DOT HAZARD CLASS N/A 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

MR SALES PARTNER - USE client name





# HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD

DELETE

REVISED 1

Page 1 of 1 2

FACILITY ID#	30035	BUSINESS NAME	TL MACHINE, INC.
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## I. FACILITY INFORMATION

CHEMICAL LOCATION	DOCK ON EAST SIDE OF FACILITY. - NEXT TO OIL BAY		
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	MAP #	GRID # F-7

## II. CHEMICAL INFORMATION

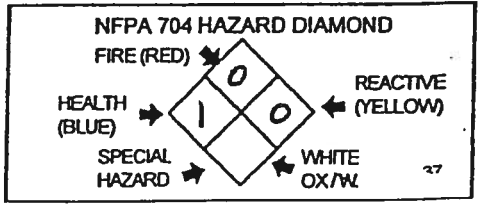
CHEMICAL NAME	HOCUT 795-NB	WASTE	<input checked="" type="checkbox"/> Yes	TRADE SECRET	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
COMMON NAME	COOLANT	* If EPCRA see instructions			
CAS #	64742-52-5	FIRE CODE HAZARD CLASSES (supplied by GGFD)			
TYPE (Check one item only)	<input checked="" 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	CURIES	N/A
PHYSICAL STATE (Check one item only)	<input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS	FED HAZARD CATEGORIES	<input checked="" type="checkbox"/> d. ACUTE HEALTH	<input type="checkbox"/> e. CHRONIC HEALTH	
AVERAGE DAILY AMOUNT	55	MAXIMUM DAILY AMOUNT	275 GAL.	ANNUAL WASTE AMOUNT	24 (55 GAL DRUMS)
UNITS	<input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS	DAYS ON SITE	365	LARGEST CONTAINER	55 GAL
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 checked="" type="checkbox"/> e. PLASTIC DRUM <input type="checkbox"/> f. NONMETALLIC DRUM <input checked="" 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 #
30-60	MINERAL OIL	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	64742-52-5
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 #	N/A
DOT HAZARD CLASS	N/A
EPCRA	<input type="checkbox"/> YES <input type="checkbox"/> NO
X	If EPCRA, Please Sign Here



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED



# HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD  DELETE  REVISED 1

Page 1 of 1 2

FACILITY ID# 30035 BUSINESS NAME TL MACHINE INC.

## I. FACILITY INFORMATION

CHEMICAL LOCATION SITE MAP 1, F7, OIL BAY REAR YARD  
CONFIDENTIAL LOCATION EPCRA  Yes  No 5 MAP # 1 6 GRID # F7 7

## II. CHEMICAL INFORMATION

CHEMICAL NAME MOBIL DTE 24 WASTE  Yes 8 TRADE SECRET  Yes  No 11  
COMMON NAME MACHINE - OIL 9 An EHS Chemical  Yes  No 12  
CAS # 7440-66-6 10 FIRE CODE HAZARD CLASSES (supplied by GGFD) 13

TYPE (Check one item only)  a. PURE  b. MIXTURE  c. WASTE 14 RADIOACTIVE  Yes -  No 15 CURIES N/A 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 55 19 MAXIMUM DAILY AMOUNT 110 20 ANNUAL WASTE AMOUNT 165 21 STATE WASTE CODE 221 22

UNITS  a. GALLONS  b. CUBIC FEET 23 DAYS ON SITE 365 24 LARGEST CONTAINER 55 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 #
64 29	ZINC ALKENYL CARBOXYAMIDE 30	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 31	7440-66-6 32
6 29	ZINC ALKYL DITHIOPHOSPHATE 30	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 31	68649-42-3 32
29	30	<input type="checkbox"/> Yes <input type="checkbox"/> No 31	32
29	30	<input type="checkbox"/> Yes <input type="checkbox"/> No 31	32
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.

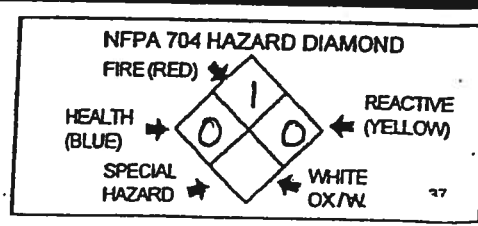
## PLACARDING INFORMATION

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

DOT HAZARD CLASS N/A 34 Refer to shipping papers or MSDS

EPCRA  YES  NO 35

X 36 If EPCRA, Please Sign Here



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# HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD     DELETE     REVISED 1    Page 1 of 1 2

FACILITY ID# 30035    BUSINESS NAME TL MACHINE INC.

### I. FACILITY INFORMATION

CHEMICAL LOCATION SITE MAP 1, F7, OIL BAY REAR YARD  
CONFIDENTIAL LOCATION EPCRA  Yes  No 5    MAP# 1    6    GRID# F7    7

### II. CHEMICAL INFORMATION

CHEMICAL NAME MOBIL VELOCITE OIL No. 6    WASTE  Yes 8    TRADE SECRET  Yes  No 11  
COMMON NAME GEAR - OIL    9    An EHS Chemical  Yes  No 12  
CAS # 64741-89-5 10    FIRE CODE HAZARD CLASSES (supplied by GGFD) 13

TYPE (Check one item only)  a. PURE     b. MIXTURE     c. WASTE 14    RADIOACTIVE  Yes     No 15    CURIES N/A 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 55 19    MAXIMUM DAILY AMOUNT 110 20    ANNUAL WASTE AMOUNT 275 21    STATE WASTE CODE 221 22  
UNITS  a. GALLONS     b. CUBIC FEET 23    DAYS ON SITE 365 24    LARGEST CONTAINER 55 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

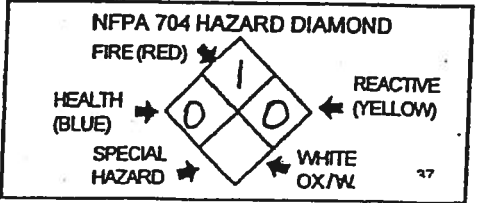
STORAGE PRESSURE  a. AMBIENT     b. ABOVE AMBIENT     c. BELOW AMBIENT 27  
STORAGE TEMPERATURE  a. AMBIENT     b. ABOVE AMBIENT     c. BELOW AMBIENT     d. CRYOGENIC 28

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 90-100 29	SOLVENT REFINED LIGHT PARAFFINIC DISTILLATE 30	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 31	64741-89-5 32
2 5-10 29	STRAIGHT-RUN MIDDLE DISTILLATES 30	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 31	64741-44-2 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 # N/A 33  
Refer to shipping papers or MSDS  
DOT HAZARD CLASS N/A 34  
Refer to shipping papers or MSDS  
EPCRA  YES     NO 35  
X \_\_\_\_\_ 36  
If EPCRA, Please Sign Here



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# HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

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REVISED 1

Page 1 of 2

FACILITY ID#	30035	BUSINESS NAME	TL MACHINE INC.
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## I. FACILITY INFORMATION

CHEMICAL LOCATION	SITE MAP 1, F7, OIL BAY REAR YARD		
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CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	MAP #	1	GRID #	F7
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## II. CHEMICAL INFORMATION

CHEMICAL NAME	MAKINO SPINDLE OIL	WASTE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	TRADE SECRET	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
---------------	--------------------	-------	---	--------------	---

COMMON NAME	SPINDLE-OIL	An EHS Chemical	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
-------------	-------------	-----------------	---

CAS #	64771-72-8	FIRE CODE HAZARD CLASSES (supplied by GGFD)	
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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	CURIES	N/A
----------------------------	---	-------------	---	--------	-----

PHYSICAL STATE (Check one item only)	<input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS	FED HAZARD CATEGORIES	<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	55	MAXIMUM DAILY AMOUNT	110	ANNUAL WASTE AMOUNT	275	STATE WASTE CODE	221
----------------------	----	----------------------	-----	---------------------	-----	------------------	-----

UNITS	<input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS	DAYS ON SITE	365	LARGEST CONTAINER	55
-------	---	--------------	-----	-------------------	----

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 #
29	PARAFFINS, PETROLEUM	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	64771-72-8
29	NAPHTHALENESULFONIC ACID	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	25619-56-1
29	PHOSPHORODITHIOIC ACID	<input type="checkbox"/> Yes <input type="checkbox"/> No	68649-42-3
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.

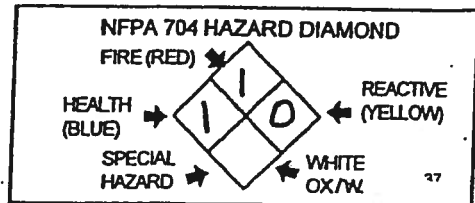
## PLACARDING INFORMATION

UNDOT # \_\_\_\_\_ 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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**GARDEN GROVE FIRE DEPARTMENT  
HAZARDOUS MATERIALS DISCLOSURE PROGRAM**

**THE FOLLOWING FORMS ARE FOR USE IN THE EVENT OF  
AN ACTUAL OR THREATENING HAZARDOUS MATERIALS EMERGENCY.**

**BUSINESS EMERGENCY PLAN**

All businesses using, handling or storing hazardous materials that are required to disclose must complete a Business Emergency Plan. The occupancy groups listed below will be permitted to complete a short version of the business plan. The completion of the short form shall be considered the application required in the Health and Safety Code, Title 20, Chapter 6.95, Section 25503.5.

The Chief of the Garden Grove Fire Department in the role of the Administering Agency, allows the following types of businesses to file the short version of the Business Emergency Plan.

1. Gasoline/Diesel service stations. S-3 occupancies
2. Repair Garages. H-4 occupancies
3. Dry Cleaners
4. Businesses, at the Fire Chief's discretion, with less than 10 employees and using materials that are not considered highly or acutely toxic.

The Fire Chief exempts the following portions from the business plan. These exemptions have been established because the materials used in the above-mentioned occupancies are common knowledge to first responding units. The materials pose no significant, unexpected hazard nor do they affect the ability of the administering agency to effectively respond to their release of a hazardous material and that there are unusual circumstances justifying this exemption.

**Exemptions**

1. Detailed evacuation plans.
2. Detailed key employee responsibilities.
3. Training outline.
4. Detailed prevention outline.

**The following Short Business Emergency Plan must be completed in order for the exemption to be granted.**

**GARDEN GROVE FIRE DEPARTMENT  
HAZARDOUS MATERIALS DISCLOSURE PROGRAM**

**BUSINESS EMERGENCY PLAN**

Personnel Emergency Notifications and Responsibilities

Employee Evacuation and Staging Areas:

1. The type of alarm signal that will be used to initiate an evacuation at the facility (vocal, paging system, manual alarm, etc.).

1- PAGING SYSTEM 2- VOCAL-VIA MANAGERS

2. All employees shall be trained to evacuate the facility through at least one exit. Alternate exit routes shall be designated if available.
3. Staging areas shall be designated for all employees. Staging areas will be the location that all employees shall report to in the event of an emergency.

One person shall be designated to account for all personnel at the staging area. That person will be responsible for meeting the incoming Fire units and reporting the conditions known about the incident.

The Staging area is at the following location as shown on your site plan map:

EAST PARKING G3, G6 + WEST SIDE, SOUTH LOT B9

Employee Responsibilities:

At least one employee shall be responsible for the following minimum requirements in the event of an emergency response by the Fire Department. NAME:

1. Notify employees. Initiate evacuation procedures. → KEITH YOUNG.
2. Notify the Garden Grove Fire Department. Dial 911.
3. Try to identify the nature of the incident.
4. Report to the staging area and account for evacuated employees.
5. Report to the incoming fire units.
6. Activate any emergency mitigation procedures that area available at your business. (List below any mitigation procedures specific to your business, if any.)

- USE FIRE EXTINGUISHERS AS NECESSARY

- APPLY OIL ABSORBANT

- ENSURE EXIT PATH IS CLEAR, DOORS OPERATIONAL

- CONDUCT DRILLS PERIODICALLY

**GARDEN GROVE FIRE DEPARTMENT  
HAZARDOUS MATERIALS DISCLOSURE PROGRAM**

**BUSINESS EMERGENCY PLAN**

Personnel Emergency Notifications and Responsibilities (Continued)

Training Requirements

State law requires training of employees where the business uses, handles or stores hazardous materials.

Employee training provided on:

- Appointment of person/persons on site who are trained in key role positions. Emergency coordinator, evacuation coordinators, staging area supervisors and documenting officers.
- Procedures to follow during a release or threatened release of a hazardous material (evacuation to staging areas).
- Information contained in material safety data sheets.
- Warning labels/placards.
- Safe work practices.
- Use of on-site emergency equipment and supplies.
- Use and location of personal protective equipment.
- Any chemical, hazardous material or substance that could be encountered in his/her work area.
- On site alarm system for evacuation.
- Discuss possible release of hazardous materials scenario.

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.

<u>Agency</u>	<u>Phone Numbers</u>
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

**GARDEN GROVE FIRE DEPARTMENT  
HAZARDOUS MATERIALS DISCLOSURE PROGRAM**

**BUSINESS EMERGENCY PLAN**

Personnel Emergency Notifications and Responsibilities (Continued)

Prevention

All materials are stored, used and handled within the guidelines of the Uniform Fire Code, N.F.P.A. standards, California Administrative Code, Titles 19 and 20.

This section is meant to initiate a Prevention Plan at your business and to assist in preventing a release, or threatened release, of a hazardous material. In the spaces provided, place a checkmark by the preventive actions which have been initiated by your business to abate hazards relating to hazardous material handling, use of storage.

Consideration shall include:

1. Drum storage and/or above ground tank storage areas:
  - a. Isolation and separation of incompatible materials.
  - b. Diking areas to contain spills.
  - c. Storage on paved ground.
2. Compressed and/or cryogenic gas storage areas:
  - a. Cylinder stored upright and secured.
  - N/A b. Isolation and/or separation of incompatible cylinders (oxygen and flammable gases, etc.).
3. General:
  - a. Safe work practices are exercised in daily routines.
  - b. Employees who handle hazardous materials are properly trained.
  - c. Material Safety Data Sheets (MSDS) readily available for each hazardous material on the premises.
  - d. Labeling of all materials and storage areas with the product name and hazards associated with the product (drums, piping, tanks, etc.).
  - e. Uniform Fire Code (UFC) requires separation between outside hazardous material storage area or tanks and combustible materials (wood, bush, etc.).
  - f. Posting of "No Smoking" signs where appropriate.

ENTIRE FACILITY - INDOORS



**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.

Your business is required by State law (CFC 8001.3.2) to retain a copy of this entire Hazardous Materials Disclosure information, including the 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.

SITE PLAN #1, C7, WITH "RIGHT TO KNOW" INFO.  
→ AT MSDS KIOSK

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: *Keth N. Young*  
Name: KETH N. YOUNG  
Title: TECH SALES MANAGER  
Date: 5-20-2008

License:149622

Remarks

1. BusName: T L MACHINE INC

2. Class: C 3. Start: 08/01/1994

4. Address: 14272 COMMERCE DR  
GARDEN GROVE, CA 92843

5. Suite: 6. Zip: 92843

7. Mailing:

8. Suite: 9. Zip:  
10. Fein:  
12. RS#:

11. BusDesc: MANUFACTURING (MACHINE SHOP)

13. Phone: 714 554-8809

14. Owner: LY, THANH XUAN PRESIDENT

15. CDL: 16. SSN:

17. Owner#2:

18. CDL: 19. SSN:

20. OwnAddr:

21. Suite: 22. Zip:

24. Addr#2:

23. Phone: 26. Zip:

25. Suite:

27. Phone:

-----

29. SIC: 3599 M 32. ValDt: 07/26/2007 38. Amuse:

30. Notf: 33. Cert: 07/30/2007 39. PoolT:

31. ExpDate: 07/31/2008 34. Lot: 40. Veh:

35. Rentls: 41. Emps: 54

36. SpecReq: 37. Vend: 42. Sqft: 11700

43. Stat: A

(B) usname, (O) wner, (A) ddr, (Z) ip, (W) ater, or hit RETURN to enter license#.

(L) icense, (P) arcel, ren(T) als, (H) ardcopy, (M) enu

Blaser Swissslube Inc.  
31 Hatfield Lane, Goshen, New York • Tel. (845) 294-3200 • Fax (845) 294-3102

**Blaser.**  
SWISSLUBE

**MSDS Blasocut**

**PRODUCT IDENTIFICATION**

**Manufacturer:** Blaser Swissslube, Inc.  
31 Hatfield Lane  
Goshen, NY 10924  
USA

**Emergency phone number USA:** (845) 294-3200

**Product name:** Blasocut 2000 X Art. No. 870-40

**Product type:** Water-miscible mineral oil based metalworking fluid

**Prepared by:** OH & S Coordinator

**Date of issue:** February 14, 2005

**Supersedes:** Edition 1 of April 21, 2002

HMIS <sup>1</sup>	
Health	1
Fire	1
Reactivity	0

**PRODUCT COMPOSITION**

Blasocut 2000 X is a mixture of:

Ingredient	%	CAS No:	Regulated In/by:
Severely hydrotreated mineral oil Emulsifiers	45 - 65 30 - 45	64742-52-5 68608-26-4 61790-44-1 61791-12-6	OSHA oil mist : 5 mg/m <sup>3</sup>
Chlorinated paraffins (C <sub>16-20</sub> , less than 50% chlorine)	5 - 15	61788-76-9	
Polar additives	2 - 5	8016-28-2 61788-66-7	WHIMS (1%) CA Prop 65 Carcinogen MA(ma9), PA (E) NJ(Subst. 1439 MI(u4,u5)
Fungi inhibitor (o-phenylphenol)	2.5	90-43-7	
- Odorant	< 0.1		
Stabilizers Total	< 2		

*Na-benzoate; 2,3-pentandiol, 2-methyl; 2-propanol, 1-phenoxy; Ca-acetate; alpha-Tocopherol; citric acid; tartaric acid; ascorbic acid; ascorbylpalmitate; oleylsarcosine; 1-hydroxyethyl-2-oleyl-imidazoline, glycerin and odorant*

Blasocut 2000 X does not contain as an ingredient: active sulfur, nitrites, formaldehyde or formaldehyde releasing substances, heavy metals (i.e. lead, mercury etc.), arsenic, PCB, PGT, TCDD or other dioxin related substances. Benzo(a)pyrene content less than 10 ppm (GC-MS method).

**EMERGENCY & FIRST AID PROCEDURES**

**Skin contact:** Wash with plenty of soap and fresh water (good personal hygiene practices are sufficient). Remove any contaminated clothing and launder before reuse.

**Eye contact:** Rinse with plenty of fresh water for 20 minutes. Consult physician if necessary.

**Inhalation:** Remove to fresh air.

**Ingestion:** Do not induce vomiting; pulmonary aspiration hazard. Consult a physician without delay. If involuntary vomiting occurs, keep mouth below hip level. Get medical attention.

**FIRE & EXPLOSION HAZARD DATA**

**Flash point (COC):** > 270°F (132°C)

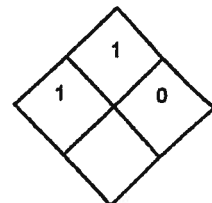
**Auto ignition temperature:** 572°F (300°C)

**Explosion limits:** Not applicable

**Hazardous combustion products:** Oxides of carbon, nitrogen and traces of oxides of chlorine and sulfur, HCl.

**Products formed under abnormal conditions:** Thermal decomposition of the concentrate above 176°F (80°C) may produce trace amounts of HCl.

NFPA 704<sup>1</sup>



<sup>1</sup> See last page for explanations

**MSDS Blasocut**

**FIRE & EXPLOSION HAZARD DATA - continued-**

**Special fire fighting procedures:** Wear self-contained breathing apparatus when fighting fires in confined spaces. Cool exposed containers with water mist to prevent pressure build-up.

**Fire fighting media:** CO<sub>2</sub>, dry chemical, foam

**Unusual fire or explosion hazards:** None

**PRECAUTIONS FOR SAFE HANDLING & USE**

**Steps to be taken in case material is released or spilled:** As with any other industrial lubricating oil, use oil-binding agents. Spills or leaks may cause slippery conditions. Prevent material from getting into storm sewers or surface waters.

**Waste disposal methods:** Split emulsion with absorbing agents, salts or ultra-filtration. Dispose according to all applicable federal, state and local regulations.

**Precautions to be taken in handling/storing:** Avoid direct solar irradiation of concentrate containers.

**Other precautions:** Do not store with strong oxidizers.

**CONTROL MEASURES**

**Respiratory protection:** Not generally required.

**Ventilation:** Ventilation sufficient to comply with recommended NIOSH exposure limit for metalworking fluids is suggested.

**Protective gloves:** Not generally required.

**Eye protection:** Industrial safety glasses are recommended.

**Other protective equipment or clothing:** Standard work clothing and shoes.

**Work/hygienic practices:** Thorough personal hygiene and clean working practices are sufficient.

**CHEMICAL & PHYSICAL PROPERTIES OF THE COMPLETE PRODUCT**

**Volatiles in %:** Nil

**Vapor pressure:** Not volatile

**Boiling point:** 572°F (300°C)

**Pour point:** < -22°F (< -30°C)

**pH @ 5%:** 8.9 - 9.2

**Specific gravity:** 0.965 g/cm<sup>3</sup>

**Viscosity:** 133 mm<sup>2</sup>/sec @ 68°F (20°C)      39 mm<sup>2</sup>/sec @ 104°F (40°C)

**Solubility in water:** Emulsifies

**Appearance and odor:** Light brown liquid / pleasant odor (almonds)

**REACTIVITY DATA**

**Stability:** Stable

**Conditions to avoid:** Avoid direct solar irradiation of containers. Good and safe housekeeping procedures suggest that all combustible materials be stored away from strong oxidizers.

**Incompatibility (materials to avoid):** Concentrate: Strong oxidizers      End use dilutions: Magnesium

**Hazardous decomposition or by-products:** Thermal decomposition (concentrate) above 176°F (80°C): Trace amounts of HCl.

**Hazardous polymerization or by-products:** Will not occur

**MSDS Blasocut**

**HEALTH HAZARD DATA**

<b>LD<sub>50</sub> of concentrate:</b>	> 5 g/kg (calculated)
<b>Health hazards (acute/chronic):</b>	Not established
<b>Skin irritation:</b>	Negative
<b>Eye irritation:</b>	Negative
<b>Carcinogenicity:</b>	Contains 2.5% o-phenylphenol (CA Prop 65 Carcinogen; Date of listing: August 4, 2000)
<b>Routes of entry:</b>	<ul style="list-style-type: none"><li>♦ Inhalation: Unlikely</li><li>♦ Skin: No</li><li>♦ Ingestion: Accidental only</li></ul>
<b>Ames test:</b>	Negative
<b>Signs and symptoms of exposure:</b>	None established
<b>Medical conditions generally aggravated by exposure:</b>	- Not established
<b>OSHA regulated:</b>	No
<b>WHMIS regulated:</b>	D-2, contains 2.5% OPP
<b>Exposure limits:</b>	<b>NIOSH Recommended exposure limit for Metalworking fluids:</b> 0.5mg/ m <sup>3</sup> <b>OSHA 29 CFR 1910.1000 for oil mist in air:</b> 5 mg/m <sup>3</sup> <b>ACGIH: TLV for oil mist in air:</b> 5 mg/m <sup>3</sup>

The Mineral oil used in Blasocut passes IP346 for DMSO extractable PNA. Benzo(a)pyrene content less than 10 ppm (GC-MS method).

**ENVIRONMENTAL, REGULATORY AND SUPPLEMENTAL INFORMATION**

**NFPA Storage:** III B

**EPCRA (SARA Title III) Section 313 Toxic Chemical (40 CFR 372.65):**  
Blasocut 2000 X contains 2.5% w/w 2-PHENYLPHENOL (CAS No.: 90-43-7)

**SARA Title III hazard information:**

♦ Immediate health (acute):	No	♦ Delayed health (chronic):	Yes	♦ Fire Hazard:	No
♦ Reactive hazard:	No	♦ Sudden pressure release:	No		

**RCRA / Hazardous Waste:**

Blasocut 2000 X, Art. 870-40, as sold, does not meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of a hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D. It is the end user's responsibility to determine the regulatory status of the waste at the time of disposal.

**TSCA:**

All ingredients of Blasocut 2000 X are listed on the TSCA Chemical Substances inventory.

**Clean Air Act:**

Blasocut 2000 X does not contain nor is it manufactured with ozone depleting substances as defined in the Federal Clean Air Act Amendments of 1990, sections 602 and 611.

**Canadian DSL / NDSL Information:**

All ingredients of Blasocut 2000 X are listed on Canadian DSL.

**DOT:**

This product is not considered hazardous under current DOT regulations.

**Spills:**

This product is classified as oil. Spills into or leading to surface waters that cause a sheen should be reported to the National Response Center at 1-800-424-8802.

Blaser Swissslube Inc.  
31 Hatfield Lane, Goshen, New York • Tel. (845) 294-3200 • Fax (845) 294-3102



**MSDS Biasocut**

**ENVIRONMENTAL, REGULATORY AND SUPPLEMENTAL INFORMATION continued**

Canadian National Pollutant Release Inventory (NPRI) Substances (C. Gaz. Pt. I, 133:7, 372 (2/13/99) and 133:17, 1089 (4/24/99))  
Biasocut 2000 X contains: O-PHENYLPHENOL (2.5%)

California Proposition 65 List of Chemicals Known to the State to Cause Cancer or Reproductive Toxicity (Cal. Code Regs. tit. 22, sec. 12000): O-PHENYLPHENOL (2.5%); CA Prop 65 Carcinogen; Date of listing: August 4, 2000

Massachusetts Right-to-Know Substance List (Mass. Gen. Laws Ann. ch. 111F): 2-PHENYLPHENOL (2.5%) Citation codes: ma9: Toxic Chemical Release Substances. 52 FR 21152 (6/4/87). Subject to SARA Title III.

Michigan Critical Materials Register (1/1/96): Michigan Natural Resources and Environmental Protection Act ((Act 451 of 1994, section 324.3111): O-PHENYLPHENOL (2.5%) Michigan Parameter Number is: 00090-43-7; Citation codes: u4, u5

New Jersey Right-to-Know Substances (N.J. Stat. Ann. Section 34:5A-5): [s1] [1,1'-BIPHENYL] -2-OL (2.5%); NJ Substance Number 1439 [s8] O-PHENYLPHENOL (2.5%); NJ Substance Number 1439

1999 New Jersey Community Right-to-Know Survey: N.J. Environmental Hazardous Substances (EHS) List:  
[s4] 2-PHENYLPHENOL(2.5%); NJ Substance Number 1439; NJ Reporting Threshold is: 500 lbs.

New Jersey Soil Tax List (N.J. Admin. Code, Title 7, Chap. 1E, App. A (May 1997), [s4] 2-PHENYLPHENOL (2.5%)

Pennsylvania: 2-PHENYLPHENOL (2.5%) Environmental Hazard (subject to release reporting) E

HMIS Ratings	0	1	2	3	4
Health, Fire, Reactivity	Minimal	Slight	Moderate	Serious	Extreme
<b>NFPA 704 Ratings (Under Fire Conditions)</b>					
Health Hazard	Normal Material	Slightly Hazardous	Hazardous	Extreme danger	Deadly
Fire (Flash Point)	Will not Burn	>200°F	100-200°F	73-100°F	<73°F
Reactivity	Stable	Unstable if heated	Violent Chemical change	Shock and Heat may detonate	May detonate

Blaser Swissslube Inc.  
31 Hatfield Lane, Goshen, New York • Tel. (845) 294-3200 • Fax (845) 294-3102

**Blaser.**  
SWISSSLUBE

**MSDS Blasocut**

**PRODUCT IDENTIFICATION**

**Manufacturer:** Blaser Swissslube, Inc.  
31 Hatfield Lane  
Goshen, NY 10924  
USA

**Emergency phone number USA:** (845) 294-3200

**Product name:** Blasocut BC40SW Art. No. 40018  
Blasocut BC20SW Art. No. 40017

**Product type:** Water-miscible mineral oil based metal working fluid

**Prepared by:** OH & S coordinator

**Date of issue:** February 14, 2005

**Supersedes:** Edition 2 of May 9, 2003

HMIS <sup>1</sup>	
Health	0
Fire	1
Reactivity	0

**PRODUCT COMPOSITION**

Blasocut BC40SW and BC20SW is a mixture of:

Ingredient	%	CAS No:	Exposure Limits:
Severely hydrotreated mineral oil	45 - 65	64742-52-5	OSHA: 5mg/m <sup>3</sup>
Emulsifiers	30 - 50	68608-26-4 67701-22-8 66154-86-9	
Polar additives	1 - 5	8019-28-2 61788-66-7	
Chlorinated paraffin (C <sub>16-20</sub> , less than 50% chlorine)	5 - 15	61788-76-9	
Stabilizers and inhibitors:	1 - 5		

*Corrosion and fungi inhibitors; Na-benzoate; 2-propanol, 1-phenoxy; Ca-acetate; alpha-Tocopherol; citric acid; tartaric acid; ascorbic acid; ascorbylpalmitate; oleylscarosine; 1-hydroxyethyl-2-oleyl-imidazole, glycerin and odorant*

Blasocut does not contain as an ingredient: active sulfur, phenols, nitrites, formaldehyde or formaldehyde releasing substances, heavy metals (i.e. lead, mercury etc.), arsenic, PCB, PCT, TCDD or other dioxin related substances. Benzo(a)pyrene content less than 10 ppm (GS-MS method).

**EMERGENCY & FIRST AID PROCEDURES**

**Skin contact:** Wash with plenty of soap and fresh water (good personal hygiene practices are sufficient). Remove any contaminated clothing and launder before reuse.

**Eye contact:** Rinse with plenty of fresh water for 20 minutes. Consult physician if necessary.

**Inhalation:** Remove to fresh air.

**Ingestion:** Do not induce vomiting, pulmonary aspiration hazard. Consult a physician without delay. If involuntary vomiting occurs, ensure mouth is below hip level. Get medical attention.

**FIRE & EXPLOSION HAZARD DATA**

**Flash point: (COC):** 240°F (116°C)

**Auto ignition temperature:** - Not determined

**Explosion limits:** Not applicable

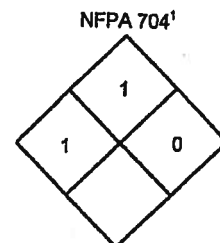
**Hazardous combustion products:** Oxides of carbon, nitrogen and traces of oxides of sulfur and chlorine, HCl

**Products formed under abnormal conditions:** Thermal decomposition of the concentrate above 176°F may produce trace amounts of HCl.

**Fire fighting media:** CO<sub>2</sub>, dry chemical, foam

**Special fire fighting procedures:** Wear self-contained breathing apparatus when fighting fires in confined spaces. Cool exposed containers with water mist to prevent pressure build-up.

**Unusual fire or explosion hazards:** None



<sup>1</sup> See last page for explanation

**MSDS Blasocut**

**PRECAUTIONS FOR SAFE HANDLING & USE**

<b>Steps to be taken in case material is released or spilled:</b>	As with any other industrial lubricating oil, use oil-binding agents. Spills or leaks may cause slippery conditions. Prevent material from getting into storm sewers or surface waters.
<b>Waste disposal methods:</b>	Split emulsion with absorbing agents, salts or ultra-filtration. Dispose according to all applicable federal, state and local regulations.
<b>Precautions to be taken in handling/storing:</b>	Avoid direct solar irradiation of concentrate containers.
<b>Other precautions:</b>	Do not store with strong oxidizers.

**CONTROL MEASURES**

<b>Respiratory protection:</b>	Not generally required.
<b>Ventilation:</b>	Ventilation sufficient to comply with recommended NIOSH exposure limit for metalworking fluids is suggested.
<b>Protective gloves:</b>	Not generally required.
<b>Eye protection:</b>	Industrial safety glasses are recommended.
<b>Other protective equipment or clothing:</b>	Standard work clothing and shoes.
<b>Work/hygienic practices:</b>	Thorough personal hygiene and clean working practices are sufficient.

**CHEMICAL & PHYSICAL PROPERTIES OF THE COMPLETE PRODUCT**

<b>Volatiles in %:</b>	Nil	
<b>Vapor pressure:</b>	Not volatile	
<b>Boiling point:</b>	Not applicable	
<b>Pour point:</b>	< -22°F (< -30°C)	
<b>Solubility in water:</b>	Emulsifies	
<b>Specific gravity:</b>	40018: 0.98 g/cm <sup>3</sup>	40017: 0.97g/cm <sup>3</sup>
<b>pH @ 5% after 24 hrs:</b>	8.9 - 9.2	
<b>Viscosity:</b>	40018: 55 mm <sup>2</sup> /s @ 104°F (40°C)	40017: 53mm <sup>2</sup> /s @ 104°F (40°C)
<b>Appearance and odor:</b>	Light brown liquid / pleasant odor (almonds)	

**REACTIVITY DATA**

<b>Stability:</b>	Stable
<b>Conditions to avoid:</b>	Avoid direct solar irradiation of concentrate containers. Good and safe housekeeping procedures suggest that all combustible materials be stored away from strong oxidizers.
<b>Incompatibility (materials to avoid):</b>	<u>Concentrate:</u> Strong oxidizers <u>End use dilutions:</u> Magnesium
<b>Hazardous decomposition or byproducts:</b>	Thermal decomposition (concentrate) above 176°F (80°C): Trace amounts of HCl
<b>Hazardous polymerization or byproducts:</b>	Will not occur



**MSDS Blasocut**

**HEALTH HAZARD DATA**

**LD<sub>50</sub> of concentrate:** > 5 g/kg (calculated)

**Health hazards (acute/chronic):** None

**Skin sensitizing:** Not expected to be sensitizing

**Eye irritation:** Not expected to be irritating

**Carcinogenicity:** None of the ingredients are listed in OSHA, NTP or IARC

**Routes of entry:**

- ♦ Inhalation: Unlikely
- ♦ Skin: No
- ♦ Ingestion: Accidental only

**Signs and symptoms of exposure:** None established -

**Medical conditions generally aggravated by exposure:** Not established

**OSHA regulated:** No -

**Exposure limits:** **NIOSH Recommended exposure limit for Metalworking fluids:** 0.5mg/m<sup>3</sup>  
**OSHA 29 CFR 1910.1000 for oil mist in air:** 5 mg/m<sup>3</sup>  
**ACGIH: TLV for oil mist in air:** 5 mg/m<sup>3</sup>

The Mineral oil used in Blasocut passes IP346 for DMSO extractable PNA-Benzo(a)pyrene content less than 10 ppm (GC-MS method).

**ENVIRONMENTAL, REGULATORY AND SUPPLEMENTAL INFORMATION**

**NFPA Storage:** III B

**SARA Title III Information:**

- ♦ Immediate health (acute): No
- ♦ Reactive hazard: No
- ♦ Fire hazard: No
- ♦ Delayed health (chronic): No
- ♦ Sudden pressure release: No

Blasocut does not contain any ingredients listed on the SARA Title III, Section 313 list or CERCLA List of Chemicals.

**RCRA / Hazardous Waste:** Blasocut, as sold, does not meet the criteria of a hazardous waste as defined under 40CFR 261, in that it does not exhibit the characteristics of a hazardous waste of subpart C, nor is it listed as a hazardous waste under subpart D. It is the end-user's responsibility to determine the regulatory status of the waste at the time of disposal and dispose of according to all applicable federal, state and local regulations

**TSCA:** All ingredients of Blasocut are listed on the TSCA Chemical Substances Inventory.

**Canadian DSL / NDSL Information:** All ingredients of Blasocut are listed on Canadian DSL.

**Clean Air Act:** Blasocut does not contain nor is it manufactured with ozone depleting substances as defined in the Federal Clean Air Act Amendments of 1990, sections 602 and 611.

**DOT:** Blasocut is not considered hazardous under current DOT regulations.

**Spills:** This product is classified as oil. Spills into or leading to surface waters that cause a sheen should be reported to the National Response Center at 1-800-424-8802.

HMIS Ratings	0	1	2	3	4
Health, Fire, Reactivity	Minimal	Slight	Moderate	Serious	Extreme
<b>NFPA 704 Ratings</b> (Under fire conditions)					
Health Hazard	Normal Material	Slightly Hazardous	Hazardous	Extreme danger	Deadly
Fire (Flash Point)	Will not Burn	>200°F	100-200°F	73-100°F	<73°F
Reactivity	Stable	Unstable if heated	Violent Chemical change	Shock and Heat may detonate	May detonate



Houghton International Inc.

Revision Date : 08/15/2006

# Material Safety Data Sheet HOCUT 795-NE

## 1. Chemical Product and Company Identification

Product Name	HOCUT 795-NE	Emergency Phone Number	24 HOUR - (800) 424-9300 (CHEMTREC)
Company Name	Houghton International Inc. Madison & Van Buren Aves Valley Forge, PA 19482	FAX	(610) 666-1376
Website	www.houghtoninti.com	Customer Service	(888) 459-9844
Telephone	(610) 666-4000		

## 2. Hazardous Ingredients

Component	Cas No	% by Weight	Hazards
Mineral Oil	64742-52-5	30-60	TLV: 5 mg/m <sup>3</sup> as oil mist PEL: 5 mg/m <sup>3</sup> as oil mist STEL: 10 mg/m <sup>3</sup> as oil mist Other:

N/E - Not Established; N/A - Not Applicable; Mfr - Manufacturer Recommendation

## 3. Hazards Identification

Primary Entry Routes	EYES, SKIN, INHALATION
Acute Effects	
Inhalation	INHALATION OF MISTS MAY CAUSE IRRITATION OF THE UPPER RESPIRATORY TRACT.
Eye	MAY CAUSE EYE IRRITATION.
Skin	PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE IRRITATION.
Ingestion	INGESTION MAY CAUSE NAUSEA OR DISCOMFORT. ASPIRATION MAY CAUSE LUNG DAMAGE.
Carcinogenicity	THIS PRODUCT DOES NOT CONTAIN ANY COMPONENT REPORTABLE AS A CARCINOGEN UNDER 29 CFR 1910.1200.
Medical Conditions Aggravated by Long Term Exposure	PRE-EXISTING SKIN AND RESPIRATORY CONDITIONS MAY BE AGGRAVATED BY EXPOSURE.
Chronic Effects	SEE ABOVE EFFECTS.

HMIS:



Houghton International inc.

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## Material Safety Data Sheet HOCUT 795-NE

### 3. Hazards Identification - continued

Health	1
Flammability	0
Reactivity	0

\* indicates that there may be chronic health effects present

### 4. First Aid Measures

Inhalation	IF INHALED, REMOVE TO A SOURCE OF FRESH AIR.
Eye Contact	FLUSH EYES WITH WATER FOR 15 MINUTES. CONSULT PHYSICIAN.
Skin Contact	WASH SKIN WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDRY BEFORE REUSING. CONSULT PHYSICIAN IF IRRITATION PERSISTS.
Ingestion	IF INGESTED, DO NOT INDUCE VOMITING. CONSULT PHYSICIAN.
Note to Physicians	NO SPECIFIC ANTIDOTE KNOWN. BASED ON INDIVIDUAL REACTIONS OF THE PATIENT, THE PHYSICIAN'S JUDGMENT SHOULD BE USED TO CONTROL SYMPTOMS AND CLINICAL CONDITIONS.

N/A - Not Applicable

### 5. Fire Fighting Measures

Flash Point	N/A
Autoignition Temperature	N/D
LEL	N/D
UEL	N/D
Extinguishing Media	USE CARBON DIOXIDE, DRY CHEMICAL OR FOAM. USE WATER TO COOL CONTAINERS EXPOSED TO FIRE.
Unusual Fire or Explosion Hazards	NO UNUSUAL FIRE OR EXPLOSION HAZARDS.
Fire Fighting Instructions	WEAR PROTECTIVE GEAR DURING FIREFIGHTING.
NFPA:	
Health	



Houghton International Inc.

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## Material Safety Data Sheet HOCUT 795-NE

### 5. Fire Fighting Measures - continued

Flammability	C
Reactivity	C
Special	N/A

N/A - Not Applicable; ND - Not Determined; > - Greater Than; < - Less Than

### 6. Accidental Release Measures

Spill or Release Procedures	APPLY DRY ABSORBENT MATERIAL AND SWEEP UP. FLUSH AREA WITH WATER AND MOP UP THOROUGHLY.
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### 7. Handling and Storage

Handling Precautions	USE WITH ADEQUATE VENTILATION. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. DO NOT ADD NITRITES TO THIS PRODUCT.
Storage Requirements	STORE SEPARATELY FROM OXIDIZERS. KEEP CONTAINERS CLOSED WHEN NOT IN USE. STORE IN A COOL, DRY, WELL VENTILATED AREA. IF FROZEN OR EXPOSED TO EXTREME HIGH TEMPERATURES, BRING TO ROOM TEMPERATURE AND MIX THOROUGHLY BEFORE USING.

### 8. Exposure Controls/Personal Protection

Engineering Controls	PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE EXPOSURE LIMITS IN SECTION 2.
Personal Protective Equipment	
Eye/Face Protection	WEAR SAFETY GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.
Skin Protection	WEAR GLOVES AND LONG SLEEVES TO MINIMIZE SKIN EXPOSURE. USE APRON OR OVERALLS IF SPLASHING IS EXPECTED.
Respiratory Protection	USE AN APPROVED RESPIRATOR (SEE 29CFR1910.134) IF APPLICABLE EXPOSURE LIMITS ARE EXCEEDED.
Other	EYE WASH AND SAFETY SHOWER RECOMMENDED.



Houghton International inc.

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## Material Safety Data Sheet HOCUT 795-NE

### 8. Exposure Controls/Personal Protection - continued

Comments:

USE OF GLOVES AND OTHER SKIN PROTECTION DEPENDS ON THE DURATION OF EXPOSURE AND THE TASK BEING PERFORMED. IF NECESSARY, CHEMICALLY RESISTANT GLOVES SUCH AS NEOPRENE, NITRILE OR EQUIVALENT MATERIALS MAY BE USED.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, or applying cosmetics.

### 9. Physical and Chemical Properties

Appearance	HAZY AMBER COLOR LIQUID	Water Solubility	EMULSIFIES
Odor	MILD AMINE ODOR	Boiling Point	215°F
Vapor Pressure (mmHg)	N/D	Freezing/ Melting Point	N/D
Vapor Density (Air = 1)	N/D	Evaporation Rate (BuAc = 1)	<1
Specific Gravity (Water = 1)	0.94		
pH (Neat)	10.4		
pH (Dilution)			
At Percent :	5		
pH	9.7		

N/D - Not Determined; N/A - Not Applicable; > - Greater Than; < - Less Than

### 10. Stability and Reactivity

Stability	THIS PRODUCT IS STABLE AT ROOM TEMPERATURE IN CLOSED CONTAINERS UNDER NORMAL STORAGE AND HANDLING CONDITIONS.
Chemical Incompatibilities	STRONG OXIDIZERS
Hazardous Decomposition Products	THERMAL; OXIDES OF CARBON AND NITROGEN
Hazardous Polymerization	HAZARDOUS POLYMERIZATION WILL NOT OCCUR.



Houghton International Inc

Revision Date : 08/15/2006

# Material Safety Data Sheet HOCUT 795-NE

## 11. Toxicological Information

NO DATA AVAILABLE

## 12. Ecological Information

NO DATA AVAILABLE

## 13. Disposal Considerations

Disposal

FOLLOW PERTINENT REGULATIONS FOR DISPOSAL. IT IS THE RESPONSIBILITY OF THE PRODUCT USER TO DETERMINE, AT THE TIME OF DISPOSAL, WHETHER A MATERIAL CONTAINING THE PRODUCT OR DERIVED FROM THE PRODUCT SHOULD BE CLASSIFIED AS A HAZARDOUS WASTE. (40 CFR 261.20-24)

RCRA Hazardous Waste Number

N/A

## 14. Transportation Information

Proper Shipping Name

NOT HAZARDOUS UNDER DOT, AIR OR IMO REGULATIONS.

## 15. Regulatory Information

TSCA Section 8(b)

ALL OF THE COMPONENTS IN THIS PRODUCT ARE ON THE TSCA INVENTORY.

CERCLA Reportable Quantity

NONE

SARA Title III, Section 313

THIS PRODUCT CONTAINS NO TOXIC CHEMICAL 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.

Ozone Depleting Substances

THIS PRODUCT WAS NOT MANUFACTURED, DOES NOT CONTAIN, AND WAS NOT PACKAGED USING ANY CLASS I OR CLASS II OZONE DEPLETING SUBSTANCE AS DEFINED BY THE CLEAN AIR ACT.



Houghton International Inc.

Revision Date : 08/15/2006

**Material Safety Data Sheet**  
**HOCUT 795-NE**

**16. Other information:**

Prepared By: GARY CARL  
Title: MANAGER, PRODUCT SAFETY

Disclaimer: The information presented herein has been compiled from sources considered to be dependable and is accurate as of the date issued. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use are beyond our control, Houghton International makes no warranty regarding the accuracy of such data or its suitability for any purchaser's use or for any consequence of its use. The data in this MSDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Safe handling and use remains the responsibility of the purchaser and the purchaser has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. Houghton International assumes no responsibility for injury to the recipient or to third persons or for any damage to any property and the recipient assumes all such risks.

# ExxonMobil

602623-88 MOBIL DTE 24  
MATERIAL SAFETY DATA BULLETIN

## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL DTE 24  
SUPPLIER: EXXONMOBIL OIL CORPORATION  
3225 GALLOWS RD.  
FAIRFAX, VA 22037

24 - Hour Health and Safety Emergency (call collect): 609-737-4411

24 - Hour Transportation Emergency:  
CHEMTREC: 800-424-9300 202-483-7616  
LUBES AND FUELS: 281-834-3296

Product and Technical Information:  
Lubricants and Specialties: 800-662-4525 800-443-9966  
Fuels Products: 800-947-9147  
MSDS Fax on Demand: 713-613-3661  
MSDS on Internet: <http://www.exxon.com>  
<http://www.mobil.com>

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: SEVERE TREAT MIN. OILS & ADDITIVES

GLOBALLY REPORTABLE MSDS INGREDIENTS:

None.

See Section 8 for exposure limits (if applicable).

## 3. HAZARDS IDENTIFICATION

Under normal conditions of use, this product is not considered hazardous according to regulatory guidelines (See section 15).

EMERGENCY OVERVIEW: Amber Liquid. Note: Pressurized mists may form a flammable mixture. DOT ERG No. : NA

POTENTIAL HEALTH EFFECTS: Under normal conditions of intended use, this



product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation.

For further health effects/toxicological data, see Section 11.

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#### 4. FIRST AID MEASURES

---

**EYE CONTACT:** Flush thoroughly with water. If irritation occurs, call a physician.

**SKIN CONTACT:** Wash contact areas with soap and water. Remove and clean oil soaked clothing daily and wash affected area. **INJECTION INJURY WARNING:** If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

**INHALATION:** Not expected to be a problem. However, if respiratory irritation, dizziness, nausea, or unconsciousness occurs due to excessive vapor or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or mouth-to-mouth resuscitation.

**INGESTION:** Not expected to be a problem. Seek medical attention if discomfort occurs. Do not induce vomiting.

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#### 5. FIRE-FIGHTING MEASURES

---

**EXTINGUISHING MEDIA:** Carbon dioxide, foam, dry chemical and water fog.

**SPECIAL FIRE FIGHTING PROCEDURES:** Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

**SPECIAL PROTECTIVE EQUIPMENT:** For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Note: Pressurized mists may form a flammable mixture.

**COMBUSTION PRODUCTS:** Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

Flash Point C(F): > 201(394) (ASTM D-92).

Flammable Limits (approx.% vol.in air) - LEL: 0.9%, UEL: 7.0%

NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0

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#### 6. ACCIDENTAL RELEASE MEASURES

---

**NOTIFICATION PROCEDURES:** Report spills/releases as required to appropriate authorities. U.S. Coast Guard and EPA regulations require immediate reporting of spills/releases that could reach any waterway including intermittent dry creeks. Report spill/release to Coast Guard National Response Center toll free number (800)424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

**PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:**

LAND SPILL: Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping or contain spilled material with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13.

WATER SPILL: Confine the spill immediately with booms. Warn other ships in the vicinity. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. If permitted by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.

ENVIRONMENTAL PRECAUTIONS: Prevent material from entering sewers, water sources or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation.

PERSONAL PRECAUTIONS: See Section 8

---

## 7. HANDLING AND STORAGE

---

HANDLING: High pressure injection under the skin may occur due to the rupture of pressurized lines. Always seek medical attention. No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

STORAGE: Keep containers closed when not in use. Do not store in open or unlabelled containers. Store away from strong oxidizing agents and combustible materials. Do not store near heat, sparks, flame or strong oxidants.

SPECIAL PRECAUTIONS: Prevent small spills and leakages to avoid slip hazard.

EMPTY CONTAINER WARNING: Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

### OCCUPATIONAL EXPOSURE LIMITS:

When mists/aerosols can occur, the following are recommended: 5 mg/m<sup>3</sup> (as oil mist) - ACGIH Threshold Limit Value (TLV), 10 mg/m<sup>3</sup> (as oil mist) - ACGIH Short Term Exposure Limit (STEL), 5 mg/m<sup>3</sup> (as oil mist) - OSHA Permissible Exposure Limit (PEL)

VENTILATION: If mists are generated, use adequate ventilation, local exhaust or enclosures to control below exposure limits.

RESPIRATORY PROTECTION: If mists are generated, and/or when ventilation is not adequate, wear approved respirator.

EYE PROTECTION: If eye contact is likely, safety glasses with side

shields or chemical type goggles should be worn.  
SKIN PROTECTION: Not normally required. When splashing or liquid contact can occur frequently, wear oil resistant gloves and/or other protective clothing. Good personal hygiene practices should always be followed.

-----  
9. PHYSICAL AND CHEMICAL PROPERTIES  
-----

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid  
COLOR: Amber  
ODOR: Mild  
ODOR THRESHOLD-ppm: NE  
pH: NA  
BOILING POINT C(F): > 316(600)  
MELTING POINT C(F): NA  
FLASH POINT C(F): > 201(394) (ASTM D-92)  
FLAMMABILITY (solids): NE  
AUTO FLAMMABILITY C(F): NA  
EXPLOSIVE PROPERTIES: NA  
OXIDIZING PROPERTIES: NA  
VAPOR PRESSURE-mmHg 20 C: < 0.1  
VAPOR DENSITY: > 2.0  
EVAPORATION RATE: NE  
RELATIVE DENSITY, 15/4 C: 0.86-0.89  
SOLUBILITY IN WATER: Negligible  
PARTITION COEFFICIENT: > 3.5  
VISCOSITY AT 40 C, cSt: 30.4  
VISCOSITY AT 100 C, cSt: 5.0  
POUR POINT C(F): < -18(0)  
FREEZING POINT C(F): NE  
VOLATILE ORGANIC COMPOUND: NE  
DMSO EXTRACT, IP-346 (WT.%): <3, for mineral oil only  
NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

-----  
10. STABILITY AND REACTIVITY  
-----

STABILITY (THERMAL, LIGHT, ETC.): Stable.  
CONDITIONS TO AVOID: Extreme heat and high energy sources of ignition.  
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.  
HAZARDOUS DECOMPOSITION PRODUCTS: Product does not decompose at ambient temperatures.  
HAZARDOUS POLYMERIZATION: Will not occur.

-----  
11. TOXICOLOGICAL DATA  
-----

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.

EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.

OTHER ACUTE TOXICITY DATA: Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (hematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.).

---REPRODUCTIVE TOXICOLOGY (SUMMARY)---

No teratogenic effects would be expected from dermal exposure, based on laboratory developmental toxicity studies of major components in this formulation and/or materials of similar composition.

---CHRONIC TOXICOLOGY (SUMMARY)---

Repeated and/or prolonged exposure may cause irritation to the skin, eyes or respiratory tract. Overexposure to oil mist may result in oil droplet deposition and/or granuloma formation. For mineral base oils: Base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as Modified Ames Test, IP-346, and/or other analytical methods. For synthetic base oils: The base oils in this product have been tested in the Ames assay and other tests of mutagenicity with negative results. These base oils are not expected to be carcinogenic with chronic dermal exposures.

---SENSITIZATION (SUMMARY)---

Not expected to be sensitizing based on tests of this product, components, or similar products.

-----  
12. ECOLOGICAL INFORMATION  
-----

ENVIRONMENTAL FATE AND EFFECTS:

In the absence of specific environmental data for this product, this assessment is based on information for representative products.

ECOTOXICITY: Available ectotoxicity data (LL50 >1000 mg/L) indicates that adverse effects to aquatic organisms are not expected from this product.

MOBILITY: When released into the environment, adsorption to sediment and soil will be the predominant behavior.

PERSISTENCE AND DEGRADABILITY: This product is expected to be inherently biodegradable.

BIOACCUMULATIVE POTENTIAL: Bioaccumulation is unlikely due to the very low water solubility of this product, therefore bioavailability to aquatic organisms is minimal.

-----  
13. DISPOSAL CONSIDERATIONS  
-----

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

-----  
14. TRANSPORT INFORMATION  
-----

USA DOT: NOT REGULATED BY USA DOT.

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

STATIC ACCUMULATOR (50 picosiemens or less): YES

-----  
15. REGULATORY INFORMATION  
-----

US OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

EU Labeling: Product is not dangerous as defined by the European Union Dangerous Substances/Preparations Directives. EU labeling not required.

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS and AICS.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains no chemicals subject to the supplier notification requirements of SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS *
ZINC ALKENYL CARBOXAMIDE (0.64%)		22
ZINC (ELEMENTAL ANALYSIS) (0.06%)	7440-66-6	22
ZINC ALKYL DITHIOPHOSPHATE (0.67%)	68649-42-3	22

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL	6=IARC 1	11=TSCA 4	16=CA P65 CARC	21=LA RTK
2=ACGIH A1	7=IARC 2A	12=TSCA 5a2	17=CA P65 REPRO	22=MI 293
3=ACGIH A2	8=IARC 2B	13=TSCA 5e	18=CA RTK	23=MN RTK
4=NTP CARC	9=OSHA CARC	14=TSCA 6	19=FL RTK	24=NJ RTK
5=NTP SUS	10=OSHA Z	15=TSCA 12b	20=IL RTK	25=PA RTK
				26=RI RTK

\* EPA recently added new chemical substances to its TSCA Section 4 test rules. Please contact the supplier to confirm whether the ingredients in this product currently appear on a TSCA 4 or TSCA 12b list.

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

-----  
16. OTHER INFORMATION  
-----

USE: HYDRAULIC OIL

NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ARE NOT FORMULATED TO CONTAIN PCBS.

Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for other applications. In any case, the following advice should be considered:

INDUSTRIAL LABEL

Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation. Always observe good hygiene measures. First Aid: Wash skin with soap and water. Flush eyes with water. If overcome by fumes or vapor, remove to fresh air. If ingested do not induce vomiting. If symptoms persist seek medical assistance. Read and understand the MSDS before using this product.

\*\*\*\*\*  
For Internal Use Only: MHC: 1\* 1\* 1\* 1\* 1\*, MPPEC: A, TRN: 602623-88,  
CMCS97: 970972, REQ: SINGAPORE, SAFE USE: L  
EHS Approval Date: 30OCT2001  
\*\*\*\*\*

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Prepared by: ExxonMobil Oil Corporation  
Environmental Health and Safety Department, Clinton, USA

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## MATERIAL SAFETY DATA SHEET

### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT

Product Name: MOBIL VELOCITE OIL NO. 6  
 Product Description: Base Oil and Additives  
 Product Code: 600668-00, 970334  
 Intended Use: Circulating/gear oil

#### COMPANY IDENTIFICATION

Supplier: EXXON MOBIL CORPORATION  
 3225 GALLOWS RD.  
 FAIRFAX, VA. 22037 USA

24 Hour Health Emergency 609-737-4411  
 Transportation Emergency Phone 800-424-9300  
 ExxonMobil Transportation No. 281-834-3296  
 MSDS Requests 713-613-3661  
 Product Technical Information 800-662-4525, 800-947-9147  
 MSDS Internet Address <http://www.exxon.com>, <http://www.mobil.com>

### SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

#### Reportable Hazardous Substance(s) or Complex Substance(s)

Name	CAS#	Concentration*
SOLVENT REFINED LIGHT PARAFFINIC DISTILLATE (PETROLEUM)	64741-89-5	90 - 100%
STRAIGHT-RUN MIDDLE DISTILLATES	64741-44-2	5 - 10%

\* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

### SECTION 3 HAZARDS IDENTIFICATION

This material is considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

#### POTENTIAL HEALTH EFFECTS

If swallowed, may be aspirated and cause lung damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May be irritating to the eyes, nose, throat, and lungs. High-pressure injection under skin may cause serious damage.

Target Organs: Skin |

#### ENVIRONMENTAL HAZARDS

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

NFPA Hazard ID: Health: 0 Flammability: 1 Reactivity: 0  
 HMIS Hazard ID: Health: 0\* Flammability: 1 Reactivity: 0



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**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

## SECTION 4 FIRST AID MEASURES

### INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

### SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

### EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

### INGESTION

Seek immediate medical attention. Do not induce vomiting.

### NOTE TO PHYSICIAN

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

## SECTION 5 FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Inappropriate Extinguishing Media:** Straight Streams of Water

### FIRE FIGHTING

**Fire Fighting Instructions:** Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Hazardous Combustion Products:** Aldehydes, Sulfur oxides, Oxides of carbon, Incomplete combustion products, Smoke, Fume

### FLAMMABILITY PROPERTIES

**Flash Point [Method]:** >154C (309F) [ASTM D-92]

**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D

**Autoignition Temperature:** N/D

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## SECTION 6 ACCIDENTAL RELEASE MEASURES

### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

### PROTECTIVE MEASURES

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required due to toxicity or flammability of the material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for Personal Protective Equipment.

### SPILL MANAGEMENT

**Land Spill:** Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

**Water Spill:** Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

### ENVIRONMENTAL PRECAUTIONS

**Large Spills:** Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

## SECTION 7 HANDLING AND STORAGE

### HANDLING

Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard.

**Static Accumulator:** This material is a static accumulator.

### STORAGE

Do not store in open or unlabelled containers.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

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Source	Form	Limit / Standard			Note	Source
SOLVENT REFINED LIGHT PARAFFINIC DISTILLATE (PETROLEUM)	Mist.	STEL	10 mg/m <sup>3</sup>		N/A	ACGIH
SOLVENT REFINED LIGHT PARAFFINIC DISTILLATE (PETROLEUM)	Mist.	TWA	5 mg/m <sup>3</sup>		N/A	ACGIH
STRAIGHT-RUN MIDDLE DISTILLATES	Stable Aerosol.	TWA	5 mg/m <sup>3</sup>		N/A	ExxonMobil
STRAIGHT-RUN MIDDLE DISTILLATES	Vapor.	TWA	200 mg/m <sup>3</sup>		N/A	ExxonMobil

**Exposure limits/standards for materials that can be formed when handling this product:** When mists / aerosols can occur, the following are recommended: 5 mg/m<sup>3</sup> - ACGIH TLV, 10 mg/m<sup>3</sup> - ACGIH STEL, 5 mg/m<sup>3</sup> - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

## ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

Adequate ventilation should be provided so that exposure limits are not exceeded.

## PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

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If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

## ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

## SECTION 9

## PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

### GENERAL INFORMATION

**Physical State:** Liquid  
**Color:** Pale Yellow  
**Odor:** Characteristic  
**Odor Threshold:** N/D

### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

**Relative Density (at 15 C):** 0.844  
**Flash Point [Method]:** >154C (309F) [ASTM D-92]  
**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D  
**Autoignition Temperature:** N/D  
**Boiling Point / Range:** N/D  
**Vapor Density (Air = 1):** > 2 at 101 kPa  
**Vapor Pressure:** < 0.013 kPa (0.1 mm Hg) at 20 C  
**Evaporation Rate (n-butyl acetate = 1):** N/D  
**pH:** N/A  
**Log Pow (n-Octanol/Water Partition Coefficient):** > 3.5  
**Solubility in Water:** Negligible  
**Viscosity:** 9.3 cSt (9.3 mm<sup>2</sup>/sec) at 40 C  
**Oxidizing Properties:** See Sections 3, 15, 16.

### OTHER INFORMATION

**Freezing Point:** N/D  
**Melting Point:** N/A  
**Pour Point:** -12°C (10°F)  
**DMSO Extract (mineral oil only), IP-346:** < 3 %wt

## SECTION 10

## STABILITY AND REACTIVITY

**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.

**MATERIALS TO AVOID:** Strong oxidizers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

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**HAZARDOUS POLYMERIZATION:** Will not occur.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
-------------------	----------------------------------

**ACUTE TOXICITY**

<u>Route of Exposure</u>	<u>Conclusion / Remarks</u>
<b>Inhalation</b>	
Toxicity: No end point data.	Minimally Toxic. Based on assessment of the components.
Irritation: No end point data.	Elevated temperatures or mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs. Based on assessment of the components.
<b>Ingestion</b>	
Toxicity: No end point data.	Minimally Toxic. Based on assessment of the components.
<b>Skin</b>	
Toxicity: No end point data.	Minimally Toxic. Based on assessment of the components.
Irritation: No end point data.	Negligible irritation to skin at ambient temperatures. Based on assessment of the components.
<b>Eye</b>	
Irritation: No end point data.	May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.

**CHRONIC/OTHER EFFECTS**

**For the product itself:**

Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

Additional information is available by request.

The following ingredients are cited on the lists below: None.

- |                             |  |                              |
|-----------------------------|--|------------------------------|
| 1 = NTP CARC<br>2 = NTP SUS | --REGULATORY LISTS SEARCHED--<br>3 = IARC 1<br>4 = IARC 2A | 5 = IARC 2B<br>6 = OSHA CARC |
|-----------------------------|--|------------------------------|

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
-------------------	-------------------------------

The information given is based on data available for the material, the components of the material, and similar materials.

**ECOTOXICITY**

Material -- Expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**MOBILITY**

More volatile component -- Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.  
 Majority of components -- Low solubility and floats and is expected to migrate from water to the land. Expected

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to partition to sediment and wastewater solids.

## PERSISTENCE AND DEGRADABILITY

### Biodegradation:

Majority of components -- Expected to be inherently biodegradable

### Atmospheric Oxidation:

More volatile component -- Expected to degrade rapidly in air

## BIOACCUMULATION POTENTIAL

Majority of components -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

## SECTION 13

## DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

## DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

## REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. **DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.**

## SECTION 14

## TRANSPORT INFORMATION

**LAND (DOT)** : Not Regulated for Land Transport

**LAND (TDG)** : Not Regulated for Land Transport

**SEA (IMDG)** : Not Regulated for Sea Transport according to IMDG-Code

**AIR (IATA)** : Not Regulated for Air Transport

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<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
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**OSHA HAZARD COMMUNICATION STANDARD:** When used for its intended purpose, this material is classified as hazardous in accordance with OSHA 29CFR 1910.1200.

**NATIONAL CHEMICAL INVENTORY LISTING:** DSL, ENCS, EINECS, IECSC, TSCA, AICS, KECI, PICCS

**EPCRA:** This material contains no extremely hazardous substances.

**SARA (311/312) REPORTABLE HAZARD CATEGORIES:** Delayed Health.

**SARA (313) TOXIC RELEASE INVENTORY:** This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The Following Ingredients are Cited on the Lists Below:

Chemical Name	CAS Number	List Citations
DIPHENYLAMINE	122-39-4	5
SOLVENT REFINED LIGHT PARAFFINIC DISTILLATE (PETROLEUM)	64741-89-5	1, 17, 18
STRAIGHT-RUN MIDDLE DISTILLATES	64741-44-2	17

--REGULATORY LISTS SEARCHED--

- |               |                  |                   |             |
|---------------|------------------|-------------------|-------------|
| 1 = ACGIH ALL | 6 = TSCA 5a2     | 11 = CA P65 REPRO | 16 = MN RTK |
| 2 = ACGIH A1  | 7 = TSCA 5e      | 12 = CA RTK       | 17 = NJ RTK |
| 3 = ACGIH A2  | 8 = TSCA 6       | 13 = IL RTK       | 18 = PA RTK |
| 4 = OSHA Z    | 9 = TSCA 12b     | 14 = LA RTK       | 19 = RI RTK |
| 5 = TSCA 4    | 10 = CA P65 CARC | 15 = MI 293       |             |

Code key: CARC=Carcinogen; REPRO=Reproductive

<b>SECTION 16</b>	<b>OTHER INFORMATION</b>
-------------------	--------------------------

N/D = Not determined, N/A = Not applicable

**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:**  
 No revision information is available.

**PRECAUTIONARY LABEL TEXT:**

**Contains:** SOLVENT REFINED LIGHT PARAFFINIC DISTILLATE (PETROLEUM)

**CAUTION!**

**HEALTH HAZARDS**

Repeated exposure may cause skin dryness or cracking. If swallowed, may be aspirated and cause lung damage.

**Target Organs:** Skin |

**FIRST AID**

**Eye:** Flush thoroughly with water. If irritation occurs, get medical assistance.

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**Oral:** Seek immediate medical attention. Do not induce vomiting.

**Skin:** Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

#### **FIRE FIGHTING MEDIA**

Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

#### **SPILL/LEAK**

**Land Spill:** Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

**Water Spill:** Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Report spills as required to appropriate authorities. Seek the advice of a specialist before using dispersants.

#### **Use**

Not intended or suitable for use in or around a household or dwelling.

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Internal Use Only

MHC: 2A, 0, 0, 0, 0, 1

PPEC: C

DGN: 2007289XUS (553809)

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**MAKINO**

# MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

MAKINO NUMBER 201055 & 201106

## PART I What is the material and what do I need to know in an emergency?

### 1. PRODUCT IDENTIFICATION

**TRADE NAME (AS LABELED):** MAKINO SPINDLE OIL

**CHEMICAL NAME/CLASS:** Paraffin Oil

**PRODUCT CODE NUMBER:** 201055, 201106

**PRODUCT USE:** Machine Lubricant

**SUPPLIER/MANUFACTURER'S NAME:** MAKINO

**ADDRESS:** 7680 Innovation Way  
Mason, Ohio 45040-8003

**U.S. BUSINESS PHONE:** 1-513-528-7040

**EMERGENCY PHONE:** 1-800-532-5663

**FAX:** 1-513-398-1717

**DATE OF PREPARATION:** November 8, 2001

### 2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	% w/w	EXPOSURE LIMITS IN AIR					
			ACGIH		OSHA			OTHER mg/m <sup>3</sup>
			TLV mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>	PEL mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>	IDLH mg/m <sup>3</sup>	
Naphthalenesulfonic Acid, Dinonyl-, Barium Salt (exposure limits are for barium, soluble compounds, as barium)	25619-56-1	< 1	0.5, A4 (Not Classifiable as a Human Carcinogen)	NE	0.5	NE	NE	NIOSH REL: TWA = 0.5  DFG MAK: TWA = 0.5 (total dust)
Paraffins (Petroleum), Normal (exposure limits are for oil mist, mineral)	64771-72-8	<99	5	10	5	NE	2500	NIOSH REL: TWA = 5 STEL = 10
Phosphorodithioic Acid, 0,0-Di-C1-C14 Alkyl Esterzincsalts	68649-42-3	< 1	NE	NE	NE	NE	NE	NE
Other low hazard constituents. The other low hazard constituents are each present in less than 1 percent concentration.		Balance	NE	NE	NE	NE	NE	NE

NE = Not Established. C = Ceiling Limit. See Section 16 for Definitions of Terms Used.

NOTE: All WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-1993 format.

### 3. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW:** This clear, colorless liquid has a mineral-spirit odor. This product may be irritating to contaminated tissue. This product must be substantially preheated for ignition to become a potential hazard: it is not reactive. If involved in a fire, this product may decompose to produce carbon dioxide, carbon monoxide, and barium and phosphoro compounds. Emergency responders must wear the personal protective equipment suitable for the situation to which they are responding.

**SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE:** The most significant routes of occupational over-exposure are inhalation and contact with skin and eyes. The symptoms of over-exposure to this product are as follows:

**INHALATION:** If vapors, mists, or sprays of this product are inhaled, they may irritate the nose, throat, and lungs. Inhalation of high concentrations of dense oil mists may lead to oil pneumonia.

**CONTACT WITH SKIN or EYES:** Contact with the eyes may cause irritation and reddening. Skin contact may cause reddening, discomfort, and irritation. Prolonged or repeated over-exposures may cause defatting, oil acne, redness, itching, inflammation, and cracking with possible secondary infection. Contact with heated material may cause thermal burns.

**SKIN ABSORPTION:** Skin absorption is not known to be a potential route of over-exposure for any component of this product.




**INGESTION:** Ingestion is not anticipated to be a likely route of occupational exposure. If this product is swallowed, it may irritate the mouth, throat, esophagus, and other tissues of the digestive system. Symptoms may include nausea, vomiting, and diarrhea. Aspiration of this product may cause lung damage, which may be life threatening.

**INJECTION:** Accidental injection of this product, via laceration or puncture by a contaminated object, may cause pain and irritation in addition to the wound.

**HEALTH EFFECTS OR RISKS FROM EXPOSURE:** An Explanation in Lay Terms. In the event of over-exposure, the following symptoms may be observed:

**ACUTE:** This product may be irritating to eyes, skin, mucous membranes, and any other exposed tissue. If inhaled, irritation of the respiratory system may occur with coughing and difficulty breathing. Inhalation of high concentrations of dense oil mists may lead to oil pneumonia. Ingestion of this product may cause nausea, vomiting, diarrhea, and lung damage related to aspiration.

**CHRONIC:** Prolonged or repeated skin over-exposures may cause defatting, oil acne, redness, itching, inflammation, and cracking with possible secondary infection.

HAZARDOUS MATERIAL INFORMATION SYSTEM			
HEALTH	(BLUE)	1	
FLAMMABILITY	(RED)	1	
REACTIVITY	(YELLOW)	0	
PROTECTIVE EQUIPMENT			C
EYES	RESPIRATORY	HANDS	BODY
	SEE SECTION 8		
For routine industrial applications			

## PART II What should I do if a hazardous situation occurs?

### 4. FIRST-AID MEASURES

**SKIN EXPOSURE:** If this product contaminates the skin, immediately begin decontamination with copious amounts of soap and running water. Minimum flushing is for 15 minutes. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Contaminated individual must seek medical attention if symptoms persist.

**EYE EXPOSURE:** If this product's liquid or vapors enter the eyes, open contaminated individual's eyes while under gently running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Do not interrupt flushing. Contaminated individual must seek medical attention if symptoms persist.

**INHALATION:** If vapors, mists, or sprays of this product are inhaled, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Remove or cover gross contamination to avoid exposure to rescuers. Contaminated individual must seek medical attention if symptoms persist.

#### 4. FIRST-AID MEASURES (Continued)

**INGESTION:** If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, do not induce vomiting. Rinse mouth with water immediately. Victim should drink milk, egg whites, or large quantities of water. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow. Contaminated individual must seek medical attention.

Contaminated individuals must be taken for medical attention if symptoms persist. Rescuers should be taken for medical attention, if necessary. Take a copy of label and MSDS to physician or health professional with victim.

#### 5. FIRE-FIGHTING MEASURES

**FLASH POINT, °C (method):** 108°C (226.4°F)

**AUTOIGNITION TEMPERATURE, °C:** Not flammable.

**FLAMMABLE LIMITS (in air by volume, %):** Lower (LEL): Not applicable.  
Upper (UEL): Not applicable.

##### **FIRE EXTINGUISHING MATERIALS:**

**Water Spray:** YES

**Foam:** YES

**Halon:** YES

**Carbon Dioxide:** YES

**Dry Chemical:** YES

**Other:** Any "ABC" Class.

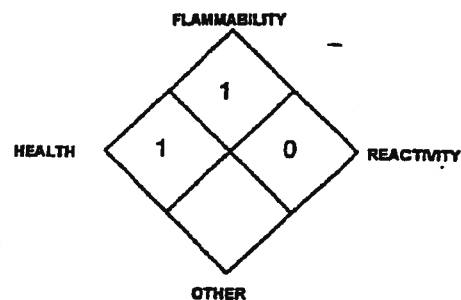
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** This product must be substantially preheated for ignition to become a potential hazard. Contact with heated material may cause thermal burns. When involved in a fire, this material may decompose and release carbon dioxide, carbon monoxide, and barium and phosphorous compounds.

**Explosion Sensitivity to Mechanical Impact:** Not sensitive.

**Explosion Sensitivity to Static Discharge:** Not sensitive.

**SPECIAL FIRE-FIGHTING PROCEDURES:** Move containers from fire area if it can be done without risk to personnel. Prevent the spread of any released product to strong oxidizers. Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Contaminated fire equipment should be cleaned with soap and water. If this product is involved in a fire, fire run-off water should be contained to prevent possible environmental damage.

##### **NFPA RATING**



#### 6. ACCIDENTAL RELEASE MEASURES

**SPILL AND LEAK RESPONSE:** Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a large spill, clear the affected area, protect people, and respond with trained personnel.

In the event of a non-incident release, minimum Personal Protective Equipment should be Level C: triple-gloves (rubber gloves and nitrile gloves over latex gloves), chemical resistant suit and boots, hard-hat, and Air-Purifying Respirator with high-efficiency particulate filter. Level B: (Self Contained Breathing Apparatus) would be required in environments where oxygen level are less than 19.5% or unknown. If necessary, allow oil to cool down before clean up begins. Absorb spilled liquid with polypads or other suitable absorbent materials. Rinse area with soap and water solution. Decontaminate the area thoroughly. Place all spill residue in a suitable container and seal. Dispose of in accordance with Federal, State, and local hazardous waste disposal regulations (see Section 13, Disposal Considerations).

### **PART III** *How can I prevent hazardous situations from occurring?*

#### 7. HANDLING and STORAGE

**WORK PRACTICES AND HYGIENE PRACTICES:** As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat or drink while handling this product. Avoid breathing vapors, mists, or sprays of this product. All work practices should minimize the generation of splashes and aerosols. Clean up spills of this product quickly and thoroughly, oil contaminated surfaces can be slippery. Remove contaminated clothing immediately.

## 7. HANDLING and STORAGE (Continued)

**STORAGE AND HANDLING PRACTICES:** All employees who handle this material should be trained to handle it safely. Use in well-ventilated location. Open containers slowly on a stable surface. Containers of this product must be properly labeled. Empty containers may contain residual liquid or vapors; therefore, empty containers should be handled with care. Empty oil pans of the product routinely.

Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Stay away from incompatible materials (see Section 10, Stability and Reactivity). Material should be stored in secondary containers or in a diked area, as appropriate. Keep container tightly closed when not in use. Storage areas should be made of fire resistant materials. If appropriate, post warning signs in storage and use areas. Inspect all incoming containers before storage to ensure containers are properly labeled and not damaged.

**PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:** Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely. If necessary, allow oil to cool down before decontamination begins. Decontaminate equipment using a soap and water solution. Follow decontamination with a triple rinse with water before maintenance begins. Collect all rinsates and dispose of according to applicable Federal, State, or local procedures.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS:** None necessary under normal conditions of use. Use with adequate ventilation to ensure exposures are below limits in Section 2 (Composition and Information on Ingredients). If necessary, vent material to outside, taking appropriate precautions to prevent environmental contamination. Ensure eyewash/safety shower stations are available near where this product is used.

**RESPIRATORY PROTECTION:** Maintain airborne contaminant concentrations below exposure limits listed in Section 2 (Composition and Information on Ingredients), if applicable. If respiratory protection is needed, use only protection authorized in 29 CFR 1910.134 or applicable State regulations. Use supplied air respiration protection if oxygen levels are below 19.5% or are unknown.

**NIOSH RECOMMENDATIONS FOR OIL MIST (MINERAL), A RELATED COMPOUND, CONCENTRATIONS IN AIR:**

UP TO 50 mg/m<sup>3</sup>: Respirator with high-efficiency particulate filter(s); or Supplier Air Respirator (SAR).  
UP TO 125 mg/m<sup>3</sup>: SAR operated in a continuous-flow mode; or powered air-purifying respirator with high-efficiency particulate filter.

UP TO 250 mg/m<sup>3</sup>: Full-facepiece respirator with high-efficiency particulate filter(s); or SAR with a tight-fitting facepiece operated in a continuous-flow mode; or powered air-purifying respirator with tight-fitting facepiece and high-efficiency particulate filter; or full-facepiece SCBA; or full-facepiece SAR.

UP TO 2500 mg/m<sup>3</sup>: Positive pressure SAR.

**EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS:** Positive pressure, full-facepiece SCBA; or positive pressure, full-facepiece SAR with an auxiliary positive pressure SCBA.

**ESCAPE:** Full-facepiece respirator with high-efficiency particulate filter(s); or escape-type SCBA.

**EYE PROTECTION:** Splash goggles or safety glasses.

**HAND PROTECTION:** Wear vinyl rubber or neoprene gloves for routine industrial use. Use triple gloves for spill response, as stated in Section 6 (Accidental Release Measures) of this MSDS.

**BODY PROTECTION:** Use body protection appropriate for task. An apron or other impermeable body protection is suggested. Full-body chemical protective clothing is recommended for emergency response procedures.

## 9. PHYSICAL and CHEMICAL PROPERTIES

**RELATIVE VAPOR DENSITY (air = 1):** Not established.

**SPECIFIC GRAVITY @ 15°C(59°F) (water = 1):** 0.7811

**SOLUBILITY IN WATER:** Negligible.

**VAPOR PRESSURE, mm Hg @ 20°C:** Negligible.

**ODOR THRESHOLD:** Not available.

**LOG WATER/OIL DISTRIBUTION COEFFICIENT:** Not available.

**EVAPORATION RATE (n-BuAc = 1):** Not established.

**FREEZING/MELTING POINT:** -12.5°C [ 9.5 degrees F]

**BOILING POINT:** Not established.

**pH:** Not applicable.

**APPEARANCE AND COLOR:** This clear, colorless liquid has a mineral spirit odor.

**HOW TO DETECT THIS SUBSTANCE (warning properties):** The odor may be a distinguishing characteristic of this product.

## 10. STABILITY and REACTIVITY

STABILITY: Stable.

DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, barium and phosphorous compounds.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong oxidizing agents.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Contact with incompatible materials.

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## PART IV *Is there any other useful information about this material?*

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## 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: No specific toxicology data are available for components greater than 1 percent in concentration. Toxicological data for a related compound are provided below.

MINERAL OIL, PETROLEUM DISTILLATES, LIGHT PARAFFINIC (a related compound):

Skin Irritancy (rabbit) = 500 mg Moderate irritation effects

Mutation in Microorganisms (*Salmonella typhimurium*) = 5  $\mu$ L/plate

LD (oral, rat) > 5 g/kg

LD (skin, rabbit) > 2 g/kg

SUSPECTED CANCER AGENT: The components of this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, and CAL/OSHA and therefore are not considered to be, nor suspected to be, cancer causing agents by these agencies.

IRRITANCY OF PRODUCT: This product may be irritating to contaminated tissue, especially after prolonged contact.

SENSITIZATION OF PRODUCT: This product contains no component known to be a sensitizer with prolonged or repeated use.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this product and its components on the human reproductive system.

Mutagenicity: This product is not reported to cause mutagenic effects in humans.

Embryotoxicity: This product is not reported to produce embryotoxic effects in humans.

Teratogenicity: This product is not reported to cause teratogenic effects in humans.

Reproductive Toxicity: This product is not reported to cause reproductive toxicity effects in humans.

*A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An embryotoxin is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.*

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing dermatitis, other skin conditions, and respiratory disorders may be aggravated by over-exposure to this product.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate over-exposure.

BIOLOGICAL EXPOSURE INDICES: Currently there are no Biological Exposure Indices (BEIs) associated with the components of this product.

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## 12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: This product will slowly decompose under environmental conditions to carbon dioxide and a variety of organic molecules.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: This product may be harmful to plant and animal life if released into the environment in large quantities.

EFFECT OF CHEMICAL ON AQUATIC LIFE: This product can float on water and prevent oxygen from entering the water system, which can adversely affect or kill aquatic plant and animal life.

### 13. DISPOSAL CONSIDERATIONS

**PREPARING WASTES FOR DISPOSAL:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

**EPA WASTE NUMBER:** Not applicable to wastes consisting only of this product.

### 14. TRANSPORTATION INFORMATION

**THIS MATERIAL IS NOT HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.**

**PROPER SHIPPING NAME:** Not applicable.

**HAZARD CLASS NUMBER and DESCRIPTION:** Not applicable.

**UN IDENTIFICATION NUMBER:** Not applicable.

**PACKING GROUP:** Not applicable.

**DOT LABEL(S) REQUIRED:** Not applicable.

**EMERGENCY RESPONSE GUIDEBOOK NUMBER(1993):** Not applicable.

**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996):** Not applicable.

**MARINE POLLUTANT:** This product does not contain any components which are designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

**TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:** THIS MATERIAL IS NOT CONSIDERED AS DANGEROUS GOODS.

### 15. REGULATORY INFORMATION

**SARA REPORTING REQUIREMENTS:** The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act, as follows:

Component	SARA 302	SARA 304	SARA 313
Naphthalenesulfonic Acid, Dinonyl-, Barium Salt (Barium Compound Category)	No	No	Yes
Paraffins (Petroleum), Normal	No	No	No
Phosphorodithioic Acid, 0,0-Di-C1-C14 Alkyl Esterzincsalts (Zinc Compounds Category)	No	No	Yes

**SARA THRESHOLD PLANNING QUANTITY:** Not applicable.

**TSCA INVENTORY STATUS:** All components of this product are listed on the TSCA Inventory.

**CERCLA REPORTABLE QUANTITY (RQ):** Not applicable.

**OTHER FEDERAL REGULATIONS:** Not applicable.

**STATE REGULATORY INFORMATION:** The components of this product listed in Section 2 (Composition and Information on Ingredients) are covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: Barium Compounds.

California - Permissible Exposure Limits for Chemical Contaminants: None.

Florida - Substance List: None.

Illinois - Toxic Substance List: Barium Compounds, Zinc Compounds.

Kansas - Section 302/313 List: None.

Massachusetts - Substance List: None.

Minnesota - List of Hazardous Substances: Barium Compounds.

Missouri - Employer Information/Toxic Substance List: None.

New Jersey - Right to Know Hazardous Substance List: Barium Compounds, Zinc Compounds.

North Dakota - List of Hazardous Chemicals, Reportable Quantities: Zinc Compounds.

Pennsylvania - Hazardous Substance List: None.

Rhode Island - Hazardous Substance List: Barium Compounds.

Texas - Hazardous Substance List: Barium Compounds.

West Virginia - Hazardous Substance List: Barium Compounds.

Wisconsin - Toxic and Hazardous Substances: Barium Compounds.

## 15. REGULATORY INFORMATION (Continued)

**CALIFORNIA PROPOSITION 65:** No component of this product is on the California Proposition 65 lists.

**LABELING (Precautionary Statements):** CAUTION! MAY IRRITATE EYES AND SKIN. MAY CAUSE GASTRIC DISCOMFORT IF SWALLOWED. ASPIRATION HAZARD IF SWALLOWED—CAN ENTER LUNGS AND CAUSE DAMAGE. MAY BE IRRITATING IF INHALED. CONTACT WITH HEATED MATERIAL MAY CAUSE THERMAL BURNS. Do not get into eyes, on skin, or on clothing. Avoid breathing vapors, sprays, or mists. Do not take internally. Use with adequate ventilation and employ respiratory protection when exposed to mists or sprays. When handling, wear chemical splash goggles, rubber gloves, and protective clothing as appropriate. Wash thoroughly after handling. Keep container closed when not in use. **FIRST-AID:** In case of contact, immediately flush skin or eyes for at least 15 minutes. If inhaled, move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If ingested, do not induce vomiting. Get medical attention. **IN CASE OF FIRE:** Use dry chemical, water spray, or alcohol foam. **IN CASE OF SPILL:** Absorb with polypads or other neutral material. Place in a suitable container. Refer to MSDS for addition information.

**TARGET ORGANS:** Skin, eyes.

**WHMIS SYMBOLS:** Not applicable.

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## 16. OTHER INFORMATION

**PREPARED BY:**

CHEMICAL SAFETY ASSOCIATES, Inc.  
9163 Chesapeake Drive, San Diego, CA 92123-1002  
(619) 565 - 0302  
November 8, 2001

**DATE OF PRINTING:**

The information given here is considered to be correct and is offered for your consideration, investigation, and verification. No warranties, expressed or implied, since the use of our products is beyond our control. Statements concerning the use of MAKINO products are not be construed as recommending the infringement of any patent.

## DEFINITIONS OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these which are commonly used include the following:

**CAS #:** This is the Chemical Abstract Service Number which uniquely identifies each constituent. It is used for computer-related searching.

### EXPOSURE LIMITS IN AIR:

**ACGIH** - American Conference of Governmental Industrial Hygienists, a professional association which establishes exposure limits.

**TLV** - Threshold Limit Value - an airborne concentration of a substance which represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour Time Weighted Average (TWA), the 15-minute Short Term Exposure Limit, and the instantaneous Ceiling Level. Skin absorption effects must also be considered.

**OSHA** - U.S. Occupational Safety and Health Administration.

**PEL** - Permissible Exposure Limit - This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL," is placed next to the PEL which was vacated by Court Order.

**IDLH** - Immediately Dangerous to Life and Health - This level represents a concentration from which one can escape within 30-minutes without suffering escape-preventing or permanent injury. The DFG - MAK is the Republic of Germany's Maximum Exposure Level, similar to the U.S. PEL. NIOSH is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. Occupational Safety and Health Administration (OSHA). NIOSH issues exposure guidelines called Recommended Exposure Levels (RELs). When no exposure guidelines are established, an entry of NE is made for reference.

### FLAMMABILITY LIMITS IN AIR:

Much of the information related to fire and explosion is derived from the National Fire Protection Association (NFPA). **LEL** - the lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. **UEL** - the highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.

### TOXICOLOGICAL INFORMATION:

Possible health hazards as derived from human data, animal studies from the results of studies with similar compounds are presented. Definitions of some terms used in this section are: **LD<sub>50</sub>** - Lethal Dose (solids & liquids) which kills 50% of the exposed animals; **LC<sub>50</sub>** - Lethal Concentration (gases) which kills 50% of the exposed animals; **ppm** - concentration expressed in parts of material per million parts of air or water; **mg/m<sup>3</sup>** - concentration expressed in weight of substance per volume of air; **mg/kg** - quantity of material, by weight, administered to a test subject, based on their body weight in kg. Data from several sources are used to evaluate the cancer-causing potential of the material. The sources are: **IARC** - the International Agency for Research on Cancer; **NTP** - the National Toxicology Program; **RTECS** - the Registry of Toxic Effects of Chemical Substances; **OSHA** and **CAL/OSHA**. **IARC** and **NTP** rate chemicals on a scale of decreasing potential to cause human cancer with rankings from 1 to 4. Subrankings (2A, 2B, etc.) are also used. Other measures of toxicity include **TDLo**, the lowest dose to cause a symptom and **TCLo** the lowest concentration to cause a symptom; **TD<sub>01</sub>**, **LDLo**, and **LDo**, or **TC**, **TC<sub>01</sub>**, **LCLo**, and **LCo**, the lowest dose (or concentration) to cause death. **BEI** - Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV.

### REGULATORY INFORMATION:

This section explains the impact of various laws and regulations on the material. **EPA** is the U.S. Environmental Protection Agency. **WHMIS** is the Canadian Workplace Hazardous Materials Information System. **DOT** and **TC** are the U.S. Department of Transportation and the Transport Canada, respectively. Other acronyms used are: **Superfund Amendments and Reauthorization Act (SARA)**; the **Toxic Substances Control Act (TSCA)**; **Marine Pollutant status** according to the **MTCA**; **California's Safe Drinking Water Act (Proposition 65)**; **Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund)**; and various state regulations. This section also includes information on the precautionary warnings which appear on the material's package label.