



CITY OF GARDEN GROVE FIRE DEPARTMENT

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

FORM 1

Hazardous Materials Business Information Form

Page ____ of ____ 3

BUSINESS INFORMATION

FACILITY # (Supplied by GGFD)	3	0	0	3	5	BEGINNING DATE	1	ENDING DATE	2		
BUSINESS NAME	DRIESSEN AIRCRAFT INTERIOR SYSTEMS, INC.							4	BUSINESS PHONE	5	
714-265-2911											
BUSINESS SITE ADDRESS	10781 FORBES AVENUE									6	
CITY	GARDEN GROVE						7	STATE	8	ZIP	9
DUN & BRADSTREET							10	SIC CODE (4 DIGIT #)	11	FIRE DISTRICT	12
15-395-3930							4977				
COUNTY	ORANGE									13	
BUSINESS OPERATOR NAME							14	OPERATOR'S PHONE	15		

BUSINESS OWNER

OWNER NAME	FACILITY MANAGER						16	OWNER PHONE	17		
714-265-6204											
OWNER MAILING ADDRESS	10781 FORBES AVENUE									18	
CITY	GARDEN GROVE						19	STATE	20	ZIP	21
							CA		92843		

ENVIRONMENTAL CONTACT

CONTACT NAME							22	CONTACT PHONE	23		
CONTACT MAILING ADDRESS	10781 FORBES AVENUE									24	
CITY	GARDEN GROVE						25	STATE	26	ZIP	27
							CA		92843		

PRIMARY

EMERGENCY CONTACTS

SECONDARY

NAME							28	NAME	DEL HERBERT						33
TITLE	FACILITY MANAGER						29	TITLE	PRESIDENT						34
BUSINESS PHONE	714-265-6204						30	BUSINESS PHONE	714-265-6205						35
24-HR. PHONE							31	24-HR. PHONE							36
PAGER #							32	PAGER #							37

ADDITIONAL LOCALLY COLLECTED INFORMATION

DESCRIBE THE TYPE OF BUSINESS OPERATION:	MANUFACTURER OF AIRCRAFT INTERIORS						38	TOTAL # OF EMPLOYEES	39						
370															
BILLING ADDRESS (IF DIFFERENT FROM ABOVE)							40	ATTENTION	41						
PROPERTY OWNER NAME	PASKIN PROPERTIES						42	ADDRESS	LA JOLLA, CA 92037						43
8550 EL PASO GRANDE							PHONE					858-456-6144			44
Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.															
SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE							45	DATE	6/17/09			46			
NAME OF SIGNER (print)							47	NAME OF DOCUMENT PREPARER (print)							49
TITLE OF SIGNER	FACILITY MANAGER						48	TITLE OF DOCUMENT PREPARER	FACILITY MANAGER						50



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

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☐ REVISED 1

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FACILITY ID#	3	0	0	3	5							38	BUSINESS NAME	DRIESSEN AHS, INC.	3
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I. FACILITY INFORMATION

CHEMICAL LOCATION	10781 FORBES AVENUE														4
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5	MAP #	DRAWING #1	6	GRID #	MACHINE SHOP	7						

II. CHEMICAL INFORMATION

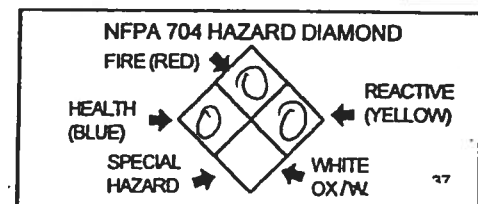
CHEMICAL NAME	ARGON										WASTE	<input type="checkbox"/> Yes <input type="checkbox"/> No	8	TRADE SECRET	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11																			
COMMON NAME	ARGON										9	An EHS Chemical	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12	* If EPCRA see instructions * If EHS is "Yes", all amounts must be LBS																				
CAS #	7440-37-1										10	FIRE CODE HAZARD CLASSES (supplied by GGFD)										13													
TYPE (Check one item only)	<input checked="" type="checkbox"/> a. PURE <input type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE										14	RADIOACTIVE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15	CURIES		16																		
PHYSICAL STATE (Check one item only)	<input type="checkbox"/> a. SOLID <input type="checkbox"/> b. LIQUID <input checked="" type="checkbox"/> c. GAS										17	FED HAZARD CATEGORIES	<input checked="" type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input checked="" type="checkbox"/> c. PRESSURE RELEASE <input type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH				18																		
AVERAGE DAILY AMOUNT	15 cu ft.										19	MAXIMUM DAILY AMOUNT	100 cu ft.										20	ANNUAL WASTE AMOUNT	0	21	STATE WASTE CODE		22						
UNITS	<input type="checkbox"/> a. GALLONS <input checked="" type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS										23	DAYS ON SITE	365										24	LARGEST CONTAINER	336 cu ft.										25
STORAGE CONTAINER (Check all that apply)															<input type="checkbox"/> a. ABOVEGROUND TANK <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> c. TANK INSIDE BLDG <input type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> e. PLASTIC DRUM <input type="checkbox"/> f. NONMETALLIC DRUM <input type="checkbox"/> g. METAL CONTAINER <input type="checkbox"/> h. CARBOY <input type="checkbox"/> i. VAT <input type="checkbox"/> j. FIBER DRUM <input type="checkbox"/> k. BAG(S) <input type="checkbox"/> l. BOX(S) <input checked="" type="checkbox"/> m. CYLINDER <input type="checkbox"/> n. GLASS CONTAINER <input type="checkbox"/> o. PLASTIC CONTAINER <input type="checkbox"/> p. IN MACH OR EQUIP <input type="checkbox"/> q. TANK WAGON <input type="checkbox"/> r. RAIL CAR <input type="checkbox"/> s. TOTE BIN <input type="checkbox"/> t. OTHER										26										
STORAGE PRESSURE															<input type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT										27										
STORAGE TEMPERATURE															<input type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC										28										

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

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

PLACARDING INFORMATION

UNDOT #	UN 1006	33
Refer to shipping papers or MSDS		
DOT HAZARD CLASS	Non Flammable Gas	34
Refer to shipping papers or MSDS		
EPCRA	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	35
X		36
If EPCRA, Please Sign Here		



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

**AIR LIQUIDE**

MATERIAL SAFETY DATA SHEET

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

1. PRODUCT IDENTIFICATION

CHEMICAL NAME; CLASS: **ARGON**

SYNONYMS: Not applicable.

CHEMICAL FAMILY NAME: Inert Gas

FORMULA: Ar

PRODUCT USE:

Document Number: 10016
Inerting, welding and general analytical
or synthetic chemical uses.

SUPPLIER/MANUFACTURER'S NAME:
ADDRESS:

AIR LIQUIDE AMERICA CORPORATION
2700 Post Oak Drive
Houston, TX 77056-8229

EMERGENCY PHONE:

CHEMTREC: 1-800-424-9300

BUSINESS PHONE:

General MSDS Information 1-713/896-2896
Fax on Demand: 1-800/231-1366

2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	mole %	EXPOSURE LIMITS IN AIR					
			ACGIH		OSHA			OTHER
			TLV ppm	STEL ppm	PEL ppm	STEL ppm	IDLH ppm	
Argon	7440-37-1	99.98%	There are no specific exposure limits for Argon. Argon is a simple asphyxiant (SA). Oxygen levels should be maintained above 19.5%.					
Maximum Impurities		<0.02	None of the trace impurities in Argon contribute significantly to the hazards associated with the product. All hazard information pertinent to Argon has been provided in this Material Safety Data Sheet, per the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and State equivalents standards.					

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: Argon is a colorless, odorless gas. The main health hazard associated with releases of this gas is asphyxiation, by displacement of oxygen.

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE: The most significant route of over-exposure for this gas is by inhalation.

INHALATION: High concentrations of this gas can cause an oxygen-deficient environment. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses.

Under some circumstances of over-exposure, death may occur, due to the displacement of oxygen. The following effects associated with various levels of oxygen are as follows:

<u>CONCENTRATION</u>	<u>SYMPTOM OF EXPOSURE</u>
12-16% Oxygen:	Breathing and pulse rate increased, muscular coordination slightly disturbed.
10-14% Oxygen:	Emotional upset, abnormal fatigue, disturbed respiration.
6-10% Oxygen:	Nausea and vomiting, collapse or loss of consciousness.
Below 6%:	Convulsive movements, possible respiratory collapse, and death.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms. Over-exposure to Argon may cause the following health effects:

ACUTE: The most significant hazard associated with this gas is inhalation of oxygen-deficient atmospheres. Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion, nausea, and, at high concentrations, unconsciousness or death may occur. The skin of a victim of over-exposure may have a blue color.

CHRONIC: There are currently no known adverse health effects associated with chronic exposure to Argon.

TARGET ORGANS: Respiratory system.

HAZARDOUS MATERIAL INFORMATION SYSTEM			
HEALTH (BLUE)			0
FLAMMABILITY (RED)			0
REACTIVITY (YELLOW)			0
PROTECTIVE EQUIPMENT			B
EYES	RESPIRATORY	HANDS	BODY
See Section 8			
For routine industrial applications			

4 FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO ARGON WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus should be worn.

Remove victim(s) to fresh air, as quickly as possible. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Only trained personnel should administer supplemental oxygen.

Victim(s) must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to physician or other health professional with victim(s).

5. FIRE-FIGHTING MEASURES

FLASH POINT: Not applicable.

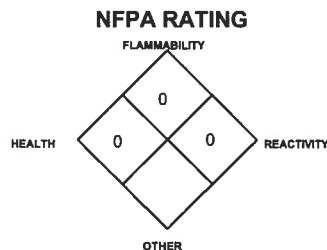
AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): Not applicable.

Upper (UEL): Not applicable.

FIRE EXTINGUISHING MATERIALS: Non-flammable, inert gas. Use extinguishing media appropriate for surrounding fire.



5. FIRE-FIGHTING MEASURES Continued)

UNUSUAL FIRE AND EXPLOSION HAZARDS: Argon does not burn; however, containers, when involved in fire, may rupture or burst in the heat of the fire.

Explosion Sensitivity to Mechanical Impact: Not Sensitive.

Explosion Sensitivity to Static Discharge: Not Sensitive.

SPECIAL FIRE-FIGHTING PROCEDURES: Structural fire-fighters must wear Self-Contained Breathing Apparatus and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES

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

Minimum Personal Protective Equipment should be: **Level B: Self-Contained Breathing Apparatus.** Locate and seal the source of the leaking gas. Allow the gas, which is heavier, than air to dissipate. Monitor the surrounding area for oxygen levels. The atmosphere must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus.

If leaking incidentally from the cylinder or its valve, contact your supplier.

7. HANDLING and USE

WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of Argon could occur without any significant warning symptoms, due to oxygen deficiency.

STORAGE AND HANDLING PRACTICES: Cylinders should be stored upright and be firmly secured to prevent falling or being knocked-over. Cylinders can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting. Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Keep storage area clear of materials which can burn. Do not allow area where cylinders are stored to exceed 52°C (125°F). Store containers away from heavily trafficked areas and emergency exits. Store away from process and production areas, away from elevators, building and room exits or main aisles leading to exits. Protect cylinders against physical damage.

Use a check valve or other protective device in the discharge line to prevent hazardous backflow. Never tamper with pressure relief valves and cylinders.

Keep the smallest amount necessary on-site at any one time. Full and empty cylinders should be segregated. Use a first-in, first-out inventory systems to prevent full containers from being stored for long periods of time.

SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS: Compressed gases can present significant safety hazards. The following rules are applicable to work situations in which cylinders are being used.

Before Use: Move cylinders with a suitable hand-truck. Do not drag, slide or roll cylinders. Do not drop cylinders or permit them to strike each other. Secure cylinders firmly. Leave the valve protection cap (where provided) in-place until cylinder is ready for use.

During Use: Use designated CGA fittings and other support equipment. Do not use adapters. Do not heat cylinder by any means to increase the discharge rate of the product from the cylinder. Do not use oils or grease on gas-handling fittings or equipment. Immediately contact the supplier if there are any difficulties associated with operating cylinder valve. Never insert an object (e.g wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, causing a leak to occur. Use an adjustable strap wrench to remove over-tight or rusted caps. Never strike an arc, on a compressed gas cylinder or make a cylinder part of and electric circuit.

After Use: Close main cylinder valve. Replace valve protection cap. Mark empty cylinders "EMPTY".

NOTE: Use only DOT or ASME code containers designed for gas storage. Close valve after each use and when empty. Cylinders must not be recharged except by or with the consent of owner. For welding and brazing operations, refer to ANSI Z-49.1 "Safety in Welding and Cutting" and OSHA safety regulations for welding, cutting, and brazing (29 CFR 1910.252). In addition, see the National Fire Protection Association (NFPA) publication 51 *Oxygen Fuel Gas Welding and Cutting*.

7. HANDLING and USE (Continued)

STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA: Use the proper CGA connections, DO NOT USE ADAPTERS:

<u>THREADED:</u>	0-3000 psig	CGA 580
	3001-5500 psig	CGA 680
	5501-7500 psig	CGA 677
<u>PIN-INDEXED YOKE:</u>	Not Applicable	
<u>ULTRA HIGH INTEGRITY:</u>	0-3000 psig	718

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Always use product in areas where adequate ventilation is provided.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation. Local exhaust ventilation is preferred, because it prevents chemical dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the level of oxygen.

RESPIRATORY PROTECTION: Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection if oxygen levels are below 19.5% or during emergency response to a release of Argon. If respiratory protection is required, follow the requirements of the Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), or equivalent State standards.

EYE PROTECTION: Safety glasses.

HAND PROTECTION: Wear glove protection appropriate to the specific operation for which Argon is used.

BODY PROTECTION: Use body protection appropriate for task. Safety shoes are recommended when handling cylinders.

9. PHYSICAL and CHEMICAL PROPERTIES

GAS DENSITY @ 21.1°C (70°F) and 1 atm: 0.103 lbs/cu ft (1.650 kg/m³)

BOILING POINT @ 1 atm: -185.9 °C (-302°F)

FREEZING/MELTING POINT @ 10 psig: -189.2 °C (-308.9 °F)

SPECIFIC GRAVITY (air = 1) @ 21.1°C (70°F): 1.38

pH: Not applicable.

SOLUBILITY IN WATER vol/vol @ 0°C (32°F); and 1 atm: 0.056

MOLECULAR WEIGHT: 39.95

EVAPORATION RATE (nBuAc = 1): Not applicable.

EXPANSION RATIO: Not applicable.

ODOR THRESHOLD: Not applicable. Odorless.

SPECIFIC VOLUME (ft³/lb): 9.7

VAPOR PRESSURE @ 21.1°C (70°F) psig: Not applicable.

COEFFICIENT WATER/OIL DISTRIBUTION: Not applicable.

APPEARANCE AND COLOR: Argon is a colorless, odorless gas.

HOW TO DETECT THIS SUBSTANCE (warning properties): There are no unusual warning properties associated with a release of Argon.

10. STABILITY and REACTIVITY

STABILITY: Normally stable, inert gas.

DECOMPOSITION PRODUCTS: None.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: None. Argon is an inert gas.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Avoid exposing cylinders to extremely high temperatures, which could cause the cylinders to rupture or burst.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: The following data are for Argon:

Standard animal toxicity values are not available. Male rats were exposed for 6 days to 20% oxygen and 80% Argon at 1 atmosphere ambient pressure. No significant changes in blood cell counts or bone marrow were observed. Other animal studies concern the deficiency of (hypoxia) or the narcotic effects of various pressures of Argon, the effects of increased Argon pressures on the central nervous system and decompression sickness.

11. TOXICOLOGICAL INFORMATION (Continued)

SUSPECTED CANCER AGENT: Argon is not found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC, and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

IRRITANCY OF PRODUCT: Not applicable.

SENSITIZATION OF PRODUCT: Argon is not a sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects Argon on the human reproductive system.

Mutagenicity: Argon is not expected to cause mutagenic effects in humans.

Embryotoxicity: Argon is not expected to cause embryotoxic effects in humans.

Teratogenicity: Argon is not expected to cause teratogenic effects in humans.

Reproductive Toxicity: Argon is not expected to cause adverse reproductive effects in humans.

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation 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 respiratory conditions may be aggravated by over-exposure to Argon.

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

BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, Biological Exposure Indices (BEIs) are not applicable for Argon.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: Argon occurs naturally in the atmosphere. The gas will be dissipated rapidly in well-ventilated areas.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: Any adverse effect on animals would be related to oxygen deficient environments. No adverse effect is anticipated to occur to plant-life, except for frost produced in the presence of rapidly expanding gases.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on Argon's effects on aquatic life.

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Return cylinders with any residual product to Air Liquide. Do not dispose of locally.

For emergency disposal, secure the cylinder and slowly discharge the gas to the atmosphere in a well-ventilated area or outdoors.

14. TRANSPORTATION INFORMATION

THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Argon, compressed

HAZARD CLASS NUMBER and DESCRIPTION: 2.2 (Non-Flammable Gas)

UN IDENTIFICATION NUMBER: UN 1006

PACKING GROUP: Not applicable.

DOT LABEL(S) REQUIRED: Non-Flammable Gas

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (1996): 121

MARINE POLLUTANT: Argon is not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B).

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles present serious safety hazards and should be discouraged.

NOTE: Shipment of compressed gas cylinders which have not been filled with the owners consent is a violation of Federal law (49 CFR, Part 173.301 (b)).

14. TRANSPORTATION INFORMATION (Continued)

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: THIS MATERIAL IS CONSIDERED AS DANGEROUS GOODS. Use the above information for the preparation of Canadian Shipments.

15. REGULATORY INFORMATION

SARA REPORTING REQUIREMENTS: Argon is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.

SARA Threshold Planning Quantity: Not applicable.

TSCA INVENTORY STATUS: Argon is listed on the TSCA Inventory.

CERCLA REPORTABLE QUANTITIES (RQ): Not applicable.

CALIFORNIA PROPOSITION 65: Argon is not on the California Proposition 65 lists.

STATE REGULATORY INFORMATION: Argon is covered under the following specific State regulations:

Alaska - Designated Toxic and Hazardous Substances: Argon.

California - Permissible Exposure Limits for Chemical Contaminants: Argon.

Florida - Substance List: Argon.

Illinois - Toxic Substance List: Argon.

Kansas - Section 302/313 List: No.

Massachusetts - Substance List: Argon.

Minnesota - List of Hazardous Substances: Argon.

Missouri - Employer Information/Toxic Substance List: Argon.

New Jersey - Right to Know Hazardous Substance List: Argon.

North Dakota - List of Hazardous Chemicals, Reportable Quantities: No.

Pennsylvania - Hazardous Substance List: Argon.

Rhode Island - Hazardous Substance List: Argon.

Texas - Hazardous Substance List: No.

West Virginia - Hazardous Substance List: No.

Wisconsin - Toxic and Hazardous Substances: No.

OTHER FEDERAL REGULATIONS:

- Argon does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82).
- Argon is not listed as a Regulated Substance, per 40 CFR, Part 68, of the Risk Management for Chemical Accidental Release.
- Argon is not subject to the reporting requirements of Section 112(r) of the Clean Air Act.
- Argon is not listed in Appendix A as a highly hazardous chemical, per 29 CFR 1910.119: Process Safety Management of Highly Hazardous Chemicals.

OTHER CANADIAN REGULATIONS: Argon is categorized as a Controlled Product, Hazard Class A, as per the Controlled Product Regulations.

16. OTHER INFORMATION

MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Further information about Argon can be found in the following pamphlets published by: Compressed Gas Association Inc. (CGA), 1725 Jefferson Davis Highway, Suite 1004, Arlington, VA 22202-4102. Telephone: (703) 412-0900.

G-11.1	"Commodity Specification for Argon"
P-1	"Safe Handling of Compressed Gases in Containers"
P-9	"Inert Gases--Argon, Nitrogen, and Helium"
P-14	"Accident Prevention in Oxygen-Rich, Oxygen-Deficient Atmospheres"
SB-2	"Oxygen Deficient Atmospheres"
AV-1	"Safe Handling and Storage of Compressed Gases"
	"Handbook of Compressed Gases"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc.
9163 Chesapeake Drive, San Diego, CA 92123-1002
619/565-0302
Fax on Demand: 1-800/231-1366



AIR LIQUIDE

This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to Argon. To the best of Air Liquide America Corporation's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If Argon is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

☐ ADD☐ DELETE☐ REVISED 1

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FACILITY ID#	3	0	0	3	5								38	BUSINESS NAME	DRIESSEN AIS, INC.	3
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I. FACILITY INFORMATION

CHEMICAL LOCATION	10781 FORBES AVENUE															4
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				5	MAP #	DRAWING #1	6	GRID #	HAZMAT STORAGE	7					

II. CHEMICAL INFORMATION

CHEMICAL NAME	ISOPROPYL ALCOHOL										WASTE	<input type="checkbox"/> Yes <input type="checkbox"/> No	8	TRADE SECRET	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11
COMMON NAME	ISOPROPYL ALCOHOL										9	An EHS Chemical	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12		
CAS #	67-63-0										10	FIRE CODE HAZARD CLASSES (supplied by GGFD)	13			

TYPE (Check one item only)	<input checked="" type="checkbox"/> a. PURE <input type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE				14	RADIOACTIVE	<input type="checkbox"/> Yes <input type="checkbox"/> No	15	CURIES	16							
PHYSICAL STATE (Check one item only)	<input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS				17	FED HAZARD CATEGORIES	<input checked="" type="checkbox"/> a. FIRE <input checked="" type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH					18					
AVERAGE DAILY AMOUNT	802				19	MAXIMUM DAILY AMOUNT	56AL				20	ANNUAL WASTE AMOUNT	0	21	STATE WASTE CODE	22	
UNITS	<input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS				23	DAYS ON SITE	365				24	LARGEST CONTAINER	55 GALLONS				25

STORAGE CONTAINER (Check all that apply)	<input type="checkbox"/> a. ABOVEGROUND TANK <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> c. TANK INSIDE BLDG <input type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> e. PLASTIC DRUM <input type="checkbox"/> f. NONMETALLIC DRUM <input 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															26
--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

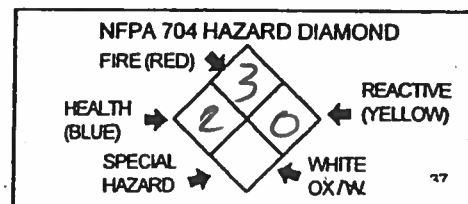
STORAGE PRESSURE	<input type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT															27
STORAGE TEMPERATURE	<input type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC															28

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

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

PLACARDING INFORMATION

UNDOT #	UN-1219	33
Refer to shipping papers or MSDS		
DOT HAZARD CLASS	3, PACKING GROUP 2	34
Refer to shipping papers or MSDS		
EPCRA	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	35
X		36
If EPCRA, Please Sign Here		



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#1 R

MATERIAL SAFETY DATA SHEET

Information Telephone No. (323) 776-6233

PHILIP SERVICES CORP
RHO-CHEM FACILITY
425 ISIS AVENUE
INGLEWOOD, CA 90301

24-HOUR CHEMICAL EMERGENCIES
INFOTRAC 800-535-5053

Issue Date: April 26, 2002

SECTION 1 - PRODUCT INFORMATION

Product: ISOPROPYL ALCOHOL
Chemical Family: Alcohol
Synonym: IPA, Isopropanol, 2-Propanol
Stock Number: Technical Grade: 1104
Electronic/Semi Grade: 1954
Reconstituted Grade: N/A
A.C.S. Reagent Grade: 3954

Department of Transportation (DOT) - Identification:

DOT Proper Shipping Name: Isopropanol
DOT Hazard Class: 3, Packing Group II
DOT Identification Number: UN1219
Emergency Response Guide Number: 129
Reportable Quantity (RQ): N/A

Hazardous Waste Identification

Waste Number: US EPA D001
South Coast Air Quality Management District:
This chemical is photochemically reactive.
Volatile Organic Compound (VOC) = 785 GRAMS/LITER

California: 212

SECTION 2 - PRODUCT COMPOSITION DATA

<u>COMPONENT #</u>	<u>COMPONENT</u>	<u>CAS #</u>	<u>VOL/PERCENT</u>
1	Isopropyl alcohol	67-63-0	100

SECTION 3 - PHYSICAL DATA

Boiling Point: 180°F
Vapor Density (Air = 1): 2.1
% Volatile by Volume: 100%
Specific Gravity (25/25C): 0.79
Vapor Pressure (mm Hg): 32 @ 20C
Solubility in water @25C (wt %): Complete

ISOPROPYL ALCOHOL 1104

Evaporation Rate (n-Butyl Acetate = 1): 1.4

Appearance: Colorless liquid

Odor: Mild Odor

Shelf Life: 3 Years

SECTION 4 - FIRE AND EXPLOSION HAZARDS

Flash Point: 53°F (TCC)

Flammable Limits: Volume in upper limits - 12%
Volume in lower limits - 2.5%

EXTINGUISHING MEDIA:

Use water fog, foam, dry chemical, or CO₂. Do not use a direct stream of water; product will float and can be reignited on surface of water.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

Warning. Flammable. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots) including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

SECTION 5 - REACTIVITY

STABILITY: Reacts with air to form dangerous peroxides

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID:

Avoid heat, sparks, flame, contact with strong oxidizing agents, acetaldehyde, chlorine, ethylene oxide, acids, and isocyanates. Do not store or handle in aluminum equipment or at temperatures above 120°F.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide and unidentified organic compounds may be formed during combustion.

ISOPROPYL ALCOHOL 1104

SECTION 6A - HEALTH INFORMATION - HEALTH RATING

HAZARDOUS MATERIALS IDENTIFICATION SYSTEMS (NFPA)

Health (2)

Fire (3)

Reactivity (0)

Based on the National Fire Protection Association Standard 704

SECTION 6B - HEALTH INFORMATION - ACUTE TOXICITY DATA

COMPONENT **ACUTE ORAL (LD50)** **ACUTE DERMAL (LD50)** **ACUTE INHALATION (LC50)**

1 RAT: 5045 MG/KG RABBIT: 12800 MG/KG RAT: 12000ppm/8hr

SECTION 6C - HEALTH INFORMATION - OCCUPATIONAL EXPOSURE LIMITS

Comp #	CAL/OSHA PEL (PPM)			OSHA PEL (PPM)			ACGIH TLV (PPM)	
	PEL/TWA	CEILING	STEL	PEL/TWA	CEILING	STEL	TLV/TWA	STEL
1	400	---	500	400	-	-	400	500
SECTION VID - HEALTH INFORMATION - EFFECTS OF EXPOSURE								

Effects described in this section are believed not to occur if exposures to the product are maintained below the occupational exposure limits listed in section 6c.

Primary route of entry: Inhalation (x) Skin (x) Ingestion (x)

AGGRAVATED MEDICAL CONDITIONS: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.

EFFECTS OF OVEREXPOSURE:

Inhalation:

Vapors may be irritating to the nose, throat, and respiratory tract. High vapor concentrations may cause central nervous system (CNS) depression.

Skin:

Mildly irritating to the skin.

Eyes:

Liquid is irritating to the eyes.

ISOPROPYL ALCOHOL 1104

Ingestion:

Irritating to the gastrointestinal tract; causing abdominal pain and vomiting; may cause CNS depression, low blood pressure, rapid heart beat and liver damage.

Signs and symptoms of excessive exposure:

Irritation as noted above. Early to moderate CNS (Central Nervous System) depression may be evidenced by giddiness, headache, dizziness, and nausea. In extreme cases, unconsciousness, respiratory depression, and death may occur. Liver damage may be evidenced by loss of appetite, jaundice (yellowish skin color) and sometimes pain in the upper right side of the abdomen.

EMERGENCY FIRST AID:

Eye contact:

Immediately flush eyes with plenty of water for at least fifteen minutes while holding eyelids open. Get medical attention.

Skin contact:

Remove contaminated clothing and shoes. Flush skin with water. If irritation occurs, get medical attention. Launder contaminated clothes before reuse.

Inhalation:

Remove victim to fresh air. Have qualified individual provide oxygen if breathing is difficult. Administer artificial respiration if victim has stopped breathing. Get medical attention.

Ingestion:

Do not give liquids if victim is unconscious or very drowsy. Otherwise, give no more than 2 glasses of water and induce vomiting by giving 30cc (2 tablespoon) syrup of IPECAC.* If IPECAC is unavailable, give 2 glasses of water and induce vomiting by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. Get medical attention.

Note to physician:

*If victim is a child, give no more than 1 glass of water and 15cc or 1 tablespoon syrup of IPECAC. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.

SECTION VII - EMPLOYEE PROTECTION
--

Ventilation:

Maintain work place vapor concentrations below the occupational exposure limits listed in section 6c. Do not use in closed or confined space. Open doors and windows. Use adequate explosion-proof ventilation to maintain exposures below the OSHA-recommended exposure limits.

ISOPROPYL ALCOHOL 1104

Protective measures for maintenance:

Exercise reasonable care and caution. Store in a cool place, away from heat or aluminum containers in which temperature may exceed 120°F. Concentrated vapors are heavier than air and will collect in low areas such as pits, degreasers, storage tanks, and other confined areas. Do not enter areas where vapors of this product are suspected unless a NIOSH-approved self-contained breathing apparatus is used and an experienced, trained observer is present for assistance.

Industrial hygiene:

Avoid skin contact and avoid breathing vapors. Do not eat, drink, or smoke in work area. Wash hands prior to eating, drinking, or using restroom. To determine exposure level(s), monitoring should be performed regularly. Safety shower and eyewash station should be available.

Respiratory protection:

Avoid breathing of vapors. If exposure exceeds or may exceed occupational exposure limits (section 6c), use a NIOSH-approved respirator to prevent overexposure. Use either an atmosphere-supplying or an air-purifying respirator for organic vapors.

Skin protection:

Avoid prolonged or repeated contact with skin. Wear chemical-resistant gloves and other clothing as required to minimize contact.

Eye protection:

Avoid contact with eyes. Wear safety glasses or goggles as appropriate. Contact lenses should not be worn. Use face shield if there is danger of splashing.

SECTION VIII - SPECIAL PRECAUTIONS

Handling and Storage - Handle with reasonable care and caution. Avoid breathing vapors. Keep liquid and vapor away from heat, sparks and flame. Surfaces that are sufficiently hot may ignite liquid product in the absence of sparks or flame. Extinguish pilot light, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone. Vapors may accumulate and travel to ignition sources distant from the handling site; flash-fire can result. Keep containers closed when not in use. Use with adequate ventilation. Vapors of this product are heavier than air and will collect in low areas such as pits, degreasers, storage tanks, and other confined areas. Do not enter these areas where vapors of this product are suspected unless special breathing apparatus is used and an observer is present for assistance.

Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

Static electricity may accumulate and create a fire hazard. To avoid static electricity, ground fixed equipment, transfer containers and equipment.

Store securely closed drums in a cool place. Storage tanks should be adequately vented for filling and pressure equalization. Vents from indoor tanks should terminate outdoors.

Do not store or handle in aluminum equipment at temperatures over 120 degree fahrenheit.

ISOPROPYL ALCOHOL 1104

Spill and Disposal - Evacuate the area, ventilate, and avoid breathing vapors. Dike area to contain spill. Use proper absorbent material. Contaminated absorbent material is disposed as hazardous waste. Avoid contamination of ground and surface waters. Do not flush to sewer.

Waste Disposal - Recovered liquids may be sent to a licensed reclaimer or incineration facility. Contaminated material must be disposed at a permitted hazardous waste management facility.

SECTION IX - SARA TITLE III INFORMATION

SARA Title III:

	Reportable Quantity (40 CFR 302.4)	SARA 311/312 Categories	SARA 313	SARA 302 Extremely Hazardous Substance
Isopropyl alcohol	-	H-1, P-3	-	-

H-1: Immediate (acute) health hazard

H-2: Delayed (chronic) health hazard

P-3: Fire hazard

Hazard category for SARA Title III Section 311/312 reporting

HEALTH

H-1 = Immediate (acute) health hazard

H-2 = Delayed (chronic) health hazard

PHYSICAL

P-3 = Fire Hazard

P-4 = Sudden release of pressure hazard

P-5 = Reactive Hazard

24 Hour Emergency Information Line: INFOTRAC 800-535-5053

PREPARED BY: La Weeda Jones Ward
Environmental Compliance Manager
Rho-Chem Corporation
425 Isis Avenue
Inglewood, CA 90301
(323) 776-6233

REV. 2/15/01



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

☐ ADD

☐ DELETE

☐ REVISED 1

Page _____ of _____ 2

FACILITY ID#	3	0	0	3	5								38	BUSINESS NAME	DRIESSEN AIS, INC	3
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I. FACILITY INFORMATION

CHEMICAL LOCATION	10781 FORBES AVE.															4
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5	MAP #	DRAWING #1	6	GRID #	HAZ MAT STORAGE	7							

II. CHEMICAL INFORMATION

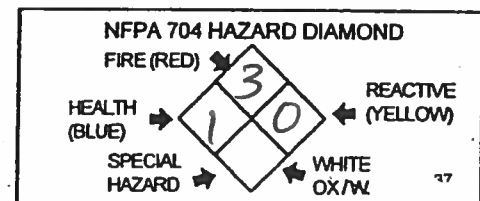
CHEMICAL NAME	KETONE										WASTE	<input type="checkbox"/> Yes <input type="checkbox"/> No	8	TRADE SECRET	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11											
COMMON NAME	ACETONE										9	An EHS Chemical	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12	* If EPCRA see instructions * If EHS is "Yes", all amounts must be LBS												
CAS #	67-64-1										10	FIRE CODE HAZARD CLASSES (supplied by GGFD)	13														
TYPE (Check one item only)	<input checked="" type="checkbox"/> a. PURE <input type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE										14	RADIOACTIVE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15	CURIES	16											
PHYSICAL STATE (Check one item only)	<input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS										17	FED HAZARD CATEGORIES	<input checked="" type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE		18												
												<input checked="" type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH															
AVERAGE DAILY AMOUNT	802										19	MAXIMUM DAILY AMOUNT	5 GAL										20				
UNITS	<input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS										23		DAYS ON SITE	365										24			
* If EHS, amount must be in pounds.														LARGEST CONTAINER										25			
														55 GALLON DRUM										25			
STORAGE CONTAINER (Check all that apply)	<input type="checkbox"/> a. ABOVEGROUND TANK <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> c. TANK INSIDE BLDG <input type="checkbox"/> d. STEEL DRUM												<input type="checkbox"/> e. PLASTIC DRUM <input type="checkbox"/> f. NONMETALLIC DRUM <input 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		26
STORAGE PRESSURE	<input type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT										27																
STORAGE TEMPERATURE	<input type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC										28																

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	29	<input type="checkbox"/> Yes <input type="checkbox"/> No	31
2	29	<input type="checkbox"/> Yes <input type="checkbox"/> No	31
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 #	UN 1090	33
Refer to shipping papers or MSDS		
DOT HAZARD CLASS	3	34
Refer to shipping papers or MSDS		
EPCRA	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	35
X		36
If EPCRA, Please Sign Here		



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MATERIAL SAFETY DATA SHEET

Rho-Chem Corporation
a wholly-owned subsidiary of
Philip Services Corporation

425 Isis Avenue
Inglewood, California 90301
Telephone: (323) 776-6233

Section 1 – Product Identification

Product Name: Rho-Solv 7176
Synonyms: n/a
Chemical Family: Hydrocarbon
Stock Number: Technical Grade: Reconstituted Grade:
Electronic/Semiconductor Grade: ACS Reagent Grade:

Section 2 – Chemical Composition

#	Component	CAS #	Volume Percent
1	Acetone	67-64-1	50%
2	Methyl Acetate	79-20-9	50%

Section 3 – Physical Properties

Boiling Point: 56-59°C Vapor Density* (Air = 1): 2.0
% Volatile by Volume: 100% Specific Gravity (@ 25°C): 0.86
Vapor Pressure (mm Hg): 163-185 Solubility in Water (wt %, @ 25°C)*: Complete
Evaporation Rate * (Ethyl ether = 1): 5.6 Odor: Pungent/Ester-like
Appearance: Clear light yellow liquid

Section 4 – Fire and Explosion Hazards

Flash Point: < 70°F Flammable Limits (in air)*: Upper Flammable Limit: 12.8
Lower Flammable Limit: 2.6

*Data is for Acetone (please refer to attached MSDS for Methyl Acetate)

EXTINGUISHING MEDIA:

Use water fog, foam, dry chemical, or CO₂ for small fires. Use alcohol type aqueous film forming foam for large fires.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

DANGER—EXTREMELY FLAMMABLE. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves, and rubber boots), including a positive pressure NIOSH-approved self-contained breathing apparatus.

MATERIAL SAFETY DATA SHEET

Acetone
Rho-Chem Corporation

Stock Number 7240
rev. 09/25/01

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup, which could result in container rupture. Containers exposed to direct flame should be cooled with large quantities of water as needed to prevent weakening of container structure or rupture.

Section 5 – Reactivity

Stability: This product is stable.

Hazardous Polymerization: Will not occur.

Incompatibility:

Avoid contact with strong oxidizers..

Conditions to Avoid:

Heat, sparks, and flame.

Hazardous Decomposition Products:

Carbon monoxide and unidentified organic compounds may be formed during combustion.

Section 6 – Health Information

OCCUPATIONAL EXPOSURE LIMITS:

Component	Cal/OSHA PEL (ppm)			OSHA PEL (ppm)			ACGIH TLV (ppm)	
	TWA	Ceiling	STEL	TWA	Ceiling	STEL	TWA	STEL
Acetone	750	3000	1000	1000	-	1000	750	1000
Methyl Acetate	200	--	250	200		250	200	250

TOXICOLOGY

Acute Toxicity Data:

Component	Acute Oral LD ₅₀	Acute Dermal	Acute Inhalation
Acetone	5,800 mg/kg (rat)	20g/kg (LD ₅₀ , rabbit)	50,100 mg/m ³ /8 hr (LC ₅₀ , rat)
Methyl Acetate	3,705 mg/kg (rabbit)	20 mg/24H MOD	15,000 mg/m ₃ (TCLo, human)

CHRONIC TOXICITY DATA

Is the product or a component of the product listed as carcinogen by the National Toxicity Program (NTP), International Agency for Research on Cancer (IARC), or the Occupational Safety and Health Administration (OSHA), or is it listed in the State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) "Chemicals known to the State to cause cancer or reproductive toxicity"?

Component	NTP	IARC	OSHA	Prop 65
Acetone	No	No	No	No
Methyl Acetate	No	No	No	No

Section 7 – Employee Exposure and Protection

MATERIAL SAFETY DATA SHEET

Acetone
Rho-Chem Corporation

Stock Number 7240
rev. 09/25/01

MEDICAL CONDITIONS AGGRAVATED

Pre-existing eye and skin disorders may be aggravated by exposure to this product.

PRIMARY ROUTE(S) OF ENTRY: Inhalation (x) Skin (x) Ingestion (x)

EFFECTS OF OVEREXPOSURE

Inhalation:

Moderate to high vapor concentrations may cause central nervous system (CNS) depression. Irritating to the mucous membranes of the nose, throat and lungs.

Skin:

Liquid is mildly irritating to the skin. Prolonged or repeated liquid contact can result in defatting, drying, crusting, scaling, weeping and itching, which may result in skin irritation and dermatitis.

Eyes:

Liquid is severely irritating to the eyes. High vapor concentrations are also irritating.

Ingestion:

Liquid may produce CNS depression.

Signs and Symptoms of Overexposure:

Irritation as noted above. Early to moderate CNS depression may be evidenced by labored breathing, giddiness, headache, dizziness, and nausea. In severe cases, unconsciousness, respiratory depression, and death may occur.

EMERGENCY FIRST AID

Eye Contact:

Immediately flush eyes with plenty of water for at least fifteen minutes while holding eyelids open. Get medical attention.

Skin Contact:

Remove contaminated clothing and shoes; launder before reuse. Immediately wash skin thoroughly with water for 5 minutes, and then with soap and water as soon as possible. Get medical attention if pain and/or irritation should persist.

Inhalation:

Remove victim to fresh air. Have qualified individual administer oxygen if victim has difficulty breathing. Administer artificial respiration if victim has stopped breathing. Get medical attention.

Ingestion:

Do not give liquids if victim is unconscious or very drowsy. Otherwise, give no more than two glasses of water and induce vomiting by giving 30 cc (two tablespoons) syrup of ipecac. If ipecac is unavailable, give two glasses of water and induced vomiting by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. Get medical attention.

EMPLOYEE PROTECTION

MATERIAL SAFETY DATA SHEET

Acetone
Rho-Chem Corporation

Stock Number 7240
rev. 09/25/01

Ventilation:

Maintain workplace vapor concentrations below the occupational exposure limits listed herein. Do not use in closed or confined spaces. Open doors and windows. Use adequate explosion-proof ventilation to maintain exposures below exposure limits.

Protective Measures For Maintenance:

Exercise reasonable care and caution. Store in a cool. Concentrated vapors are heavier than air and will collect in low areas such as pits, degreasers, storage tanks, and other confined areas. Do not enter areas where vapors of this product are suspected unless a NIOSH-approved self-contained breathing apparatus is used, and an experienced, trained observer is present for assistance.

Industrial Hygiene:

Avoid skin contact and avoid breathing vapors. Do not eat, drink, or smoke in work area. Wash hands prior to eating, drinking, or using restroom. To determine exposure levels, monitoring should be performed regularly. Safety shower and eyewash station should be available.

Respiratory Protection:

Avoid prolonged or repeated breathing of vapors. If exposure exceeds or may exceed occupational exposure limits (see above), use a NIOSH-approved respirator to prevent overexposure. In accordance with 29 CFR 1910.134, use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

Skin Protection:

Avoid prolonged or repeated contact with skin. Wear chemical-resistant gloves and other clothing as required to minimize contact.

Eye Protection:

Avoid contact with eyes. Wear splash-proof goggles as appropriate. Contact lenses should not be worn. Use face shield if there is danger of splashing.

Section 8 – Special Precautions

Handling and Storage:

DANGER—Flammable. Keep liquid and vapor away from heat, sparks, and flame. Surfaces that are sufficiently hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot light, cigarettes, and turn off other sources of ignition prior to use and until all vapors are gone. Vapors may accumulate and travel to ignition sources distant from the handling site; flash fire may result.

Keep containers closed when not in use. Use with adequate ventilation. Vapors of this product are heavier than air and will collect in low areas such as pits, degreasers, storage tanks, and other confined areas. Do not enter these areas where vapors of this product are suspected unless special breathing apparatus is used and an observer is present for assistance.

Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld, or perform similar operations on or near containers.

Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground transfer containers and equipment.

In Case of Spills:

MATERIAL SAFETY DATA SHEET

Acetone
Rho-Chem Corporation

Stock Number 7240
rev. 09/25/01

DANGER—Extremely Flammable. Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking.

Evacuate the area, ventilate, and avoid breathing vapors. Provide maximum ventilation. Dike area to contain spill. Clean up area (wearing protective equipment) by mopping, or with absorbent material, and place in closed containers for disposal. Avoid contamination of ground and surface waters. Do not flush to sewer.

Recovered liquids may be sent to a permitted reclaimer or incineration facility. Contaminated material must be disposed of at a permitted hazardous waste management facility. Consult federal state, or local disposal authorities for approved procedures. Philip Services Corp. can provide assistance.

Section 9 – Regulatory Information

Hazardous Materials Identification System (NFPA HMIS):

Health: 1

Reactivity: 0

Fire: 3

Special Hazards: none

SARA Title III:

	Acetone	Methyl Acetate
Reportable Quantity (40 CFR 302.4)	5000 lb.	None
SARA 311/312 Categories	H-1, H-2, P-3	H-1, P-3
SARA 313	Listed	Not Listed
SARA 302 Extremely Hazardous Substance	Not Listed	Not Listed

South Coast Air Quality Management District:

This chemical is photochemically reactive.
VOC content: 0 g/l (exempt compounds)

U.S. Department of Transportation:

Proper Shipping Name: Acetone
Additional Description:
Hazard Class: 3
Packing Group: II
Identification Number: UN1090
Reportable Quantity: 5000 lb (2270 kg)

California Proposition 65:

not applicable

Revised 09/25/01



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

☐ ADD

☐ DELETE

☐ REVISED 1

Page _____ of _____ 2

FACILITY ID#	3	0	0	3	5								38	BUSINESS NAME	PRIESSEN A/S, INC.	3
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I. FACILITY INFORMATION

CHEMICAL LOCATION	14231 Commerce Drive															4
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				5	MAP #	DRAWING #2	6	GRID #	STATIC TEST	7					

II. CHEMICAL INFORMATION

CHEMICAL NAME	ACETYLENE, ETHYNE, ETHYLE										WASTE	<input type="checkbox"/> Yes <input type="checkbox"/> No	8	TRADE SECRET	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11	
COMMON NAME	ACETYLENE										9	An EHS Chemical	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12	* If EPCRA see instructions		
CAS #	74-86-2										10	FIRE CODE HAZARD CLASSES (supplied by GGFD)					13

TYPE (Check one item only)	<input checked="" type="checkbox"/> a. PURE <input type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE				14	RADIOACTIVE	<input type="checkbox"/> Yes <input type="checkbox"/> No	15	CURIES	16	
PHYSICAL STATE (Check one item only)	<input type="checkbox"/> a. SOLID <input type="checkbox"/> b. LIQUID <input checked="" type="checkbox"/> c. GAS				17	FED HAZARD CATEGORIES	<input checked="" type="checkbox"/> a. FIRE <input checked="" type="checkbox"/> b. REACTIVE <input checked="" type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH				18

AVERAGE DAILY AMOUNT	15 cu	19	MAXIMUM DAILY AMOUNT	100 cu	20	ANNUAL WASTE AMOUNT	0	21	STATE WASTE CODE	22	
UNITS	<input type="checkbox"/> a. GALLONS <input checked="" type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS				23	DAYS ON SITE	365	24	LARGEST CONTAINER	150 cu ft.	25
*If EHS, amount must be in pounds.											

STORAGE CONTAINER (Check all that apply)	<input type="checkbox"/> a. ABOVEGROUND TANK <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> c. TANK INSIDE BLDG <input type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> e. PLASTIC DRUM <input type="checkbox"/> f. NONMETALLIC DRUM <input type="checkbox"/> g. METAL CONTAINER <input type="checkbox"/> h. CARBOY <input type="checkbox"/> i. VAT <input type="checkbox"/> j. FIBER DRUM <input type="checkbox"/> k. BAG(S) <input type="checkbox"/> l. BOX(S) <input checked="" type="checkbox"/> m. CYLINDER <input type="checkbox"/> n. GLASS CONTAINER <input type="checkbox"/> o. PLASTIC CONTAINER <input type="checkbox"/> p. IN MACH OR EQUIP <input type="checkbox"/> q. TANK WAGON <input type="checkbox"/> r. RAIL CAR <input type="checkbox"/> s. TOTE BIN <input type="checkbox"/> t. OTHER										26
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STORAGE PRESSURE	<input type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT										27
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STORAGE TEMPERATURE	<input type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC										28
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%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	29	<input type="checkbox"/> Yes <input type="checkbox"/> No	31
2	29	<input type="checkbox"/> Yes <input type="checkbox"/> No	31
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 # _____ 33

Refer to shipping papers or MSDS

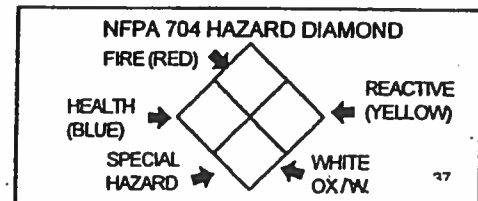
DOT HAZARD CLASS FLAMMABLE GAS 34

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

Acetylene Material Safety Data Sheet

Industrial Gas Division
Air Products and Chemicals, Inc.
P.O. Box 538
Allentown, PA 18105
Tel. (215) 481-4911 • TWX 510-651-3686
CABLE-AIRPROD • TELEX 84-7418

PRODUCTS 

EMERGENCY PHONE: 800—523-9374		IN PENNSYLVANIA: 800—322-9092	
ISSUE DATE	Issued: 31 January 1978	TRADE NAME AND SYNONYMS	CHEMICAL NAME AND SYNONYMS
		Acetylene, Ethyne, Ethine	Acetylene, Ethyne, Ethine
REVISIONS	Rev: 10 July 1986	FORMULA	CHEMICAL FAMILY
		C ₂ H ₂ MW: 26.04	Alkynes CAS#74-86-2

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Acetylene is classified as a simple asphyxiant and has no threshold limit value (TLV). Acetylene is not listed as a carcinogen by NTP, IARC, or OSHA.

SYMPTOMS IF INGESTED, CONTACTED WITH SKIN, OR VAPOR INHALED

Symptoms such as headaches, dizziness, shortness of breath, and loss of consciousness may occur if the gas is present in quantities sufficient to dilute the oxygen concentration in air. Symptoms of anoxia occur only when the gas concentrations are within the flammable range and the mixture has not ignited. (DO NOT ENTER AREAS WITHIN THE FLAMMABLE RANGE DUE TO THE IMMEDIATE FIRE AND EXPLOSION HAZARD.) Use a suitable flammable gas meter (explosimeter) calibrated for acetylene to measure concentrations of gas in the air.

TOXICOLOGICAL PROPERTIES

Acetylene is a simple asphyxiant, irritant, and anesthetic. About 100 mg per liter may be tolerated for 0.5–1.0 hour. There is no experimental evidence of chronic harmful effects.

RECOMMENDED FIRST AID TREATMENT

First degree and minor second degree thermal burns from fires should be immersed in cool water for 30 minutes. Major second and third degree burns should be covered in the cleanest material available. Seek immediate aid of a physician. Persons suffering from lack of oxygen should be moved to areas with normal atmosphere. Assisted respiration and supplemental oxygen should be given if the victim is not breathing.

FIRE AND EXPLOSION HAZARD DATA

FIRE AND EXPLOSION HAZARD DATA				
FLASH POINT (Method used)	AUTO IGNITION TEMP	FLAMMABLE LIMITS	LEL	UEL
0F (–18C) (CC)	581F (305C)	In air @ 1 atm	2.5%	100%
EXTINGUISHING MEDIA			ELECTRICAL CLASSIFICATION	
Carbon dioxide, dry chemical, Halon			GROUP Class I, Group A	
SPECIAL FIRE FIGHTING PROCEDURES				
Stop gas flow and fight fire conventionally. Use water spray to keep cylinders or other containers cool if exposed to fire. Keep personnel well away since containers can rupture violently when exposed to fire. For additional information, see Compressed Gas Association Safety Bulletin SB-4.				

UNUSUAL FIRE AND EXPLOSION HAZARDS

ACETYLENE IS EXTREMELY FLAMMABLE AND EXPLOSIVE. IT MAY DECOMPOSE VIOLENTLY IN ITS FREE STATE UNDER PRESSURE IN EXCESS OF 15 PSIG. It burns with an intensely hot flame. Potential explosion hazard exists from reignition if fire is extinguished without shutting off acetylene source. Ignites very easily due to low minimum ignition energy; very wide flammable limits. Acetylene gas has an approximate specific gravity of 1.0 and tends to stay in pockets rather than dissipate.

PHYSICAL DATA

PHYSICAL DATA			
BOILING POINT (°F.) @ 1 atm - 119.2F (- 84.0C)		FREEZING POINT (°F) @ 1 atm - 113.4F (- 80.8C)	
VAPOR PRESSURE (psia) @ 62.2F (16.8C) 590 psia (40 atm)		SOLUBILITY IN WATER @ 64F (18C), 1 atm 1.0 CuF/CuFtH ₂ O	
VAPOR DENSITY (lb/cu ft) @ 68F (20C), 1 atm 0.0681	SPECIFIC GRAVITY (AIR = 1) @ 68F (20C), 1 atm 0.906	LIQUID DENSITY (lb/cu ft) @ - 116F (- 82C), 1 atm 38.76	SPECIFIC GRAVITY (H ₂ O = 1) @ - 116F (- 82C), 1 atm 0.621
APPEARANCE AND ODOR Pure acetylene is colorless and odorless. Impurities in carbide generated acetylene impart a characteristic garlic-like odor.			

Printed in U.S.A. 310-81

REACTIVITY DATA

STABILITY	UNSTABLE STABLE	X	CONDITIONS TO AVOID Never utilize free gas outside the cylinder at pressures in excess of 15 psig. Avoid mechanical shocks to containers of acetylene. Never expose cylinders or acetylene systems to sources of heat.
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INCOMPATIBILITY (Materials to avoid)
Oxidizers such as oxygen, and halogens. Forms explosive compounds with copper, brass, copper salts, Hg and Hg salts, K, Ag and Ag salts, and HNO₃.

HAZARDOUS DECOMPOSITION PRODUCTS
Acetylene will decompose into elemental carbon and hydrogen under the above conditions.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Ventilate area to prevent flammable mixture from forming. Remove sources of ignition, heat, sparks, etc. Avoid entering area of flammable atmosphere. Carefully remove cylinders with slow leaks to a remote outdoor location. Contact Air Products for assistance.

WASTE DISPOSAL METHOD
Do not attempt to dispose of residual gaseous acetylene in cylinders. Return to Air Products for disposal.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)
Oxygen-deficient atmospheres are in the flammable range. DO NOT ENTER. Respirators will not function.

VENTILATION Natural or mechanical where gas is present.	LOCAL EXHAUST	SPECIAL Mechanical ventilation for enclosed storage areas must meet National Electrical Code requirements for Class 1, Group A
	MECHANICAL (General)	OTHER

PROTECTIVE GLOVES
Ordinary leather work gloves recommended for cylinder handling. Welders gloves required for cutting and welding operations.

EYE PROTECTION
Safety glasses recommended for handling cylinders. Welders goggles, etc., required for cutting and welding.

OTHER PROTECTIVE EQUIPMENT
Leather sleeves, leather apron and other standard protective equipment for cutting and welding.

SPECIAL PRECAUTIONS*

SPECIAL LABELING INFORMATION
Acetylene shipments must be in accordance with Department of Transportation (DOT) regulations using the DOT "FLAMMABLE GAS" label. Consult DOT regulations for details on the shipping of hazardous materials.

SPECIAL HANDLING RECOMMENDATIONS
Use only in well ventilated areas. Acetylene gas cylinders contain gas at high pressure and should be handled with care. Use a pressure-reducing regulator set at less than 15 psig. Always keep acetylene cylinders upright and secure cylinders when in use. Never expose an acetylene cylinder to heat. Always open and close acetylene valves slowly. Return cylinders to Air Products with positive pressure and cylinder valve closed. Avoid dragging, rolling, or sliding cylinders, even for a short distance. Use a suitable hand truck. For additional handling recommendations on compressed gas cylinders, consult Compressed Gas Association Pamphlet P-1.

SPECIAL STORAGE RECOMMENDATIONS
Storage of 2500 cubic feet or less is permissible within buildings. Storage in excess of 2500 cubic feet must be outdoors or in well ventilated special rooms or buildings. Keep cylinders away from sources of heat. Storage should not be in heavy traffic areas to prevent accidental knocking over or damage from passing or falling objects. Valve caps should remain on cylinders not connected for use. Segregate full and empty cylinders. Keep acetylene cylinders storage areas away from storage of oxygen and other oxidizers. Storage areas should be free of combustible material. Avoid exposure to areas where salt or other corrosive chemicals are present. Store acetylene cylinders with the valve end up. See Compressed Gas Association Pamphlet P-1 and National Fire Protection Association Standard No. 51 for additional storage recommendations.

SPECIAL PACKAGING RECOMMENDATIONS
Acetylene is packaged in cylinders meeting DOT specification 8 or 8AL. The cylinder contains a porous filler saturated with acetone. The acetylene stored in the cylinder is dissolved in acetone. A full cylinder should not exceed 250 psig @ 70F.

OTHER RECOMMENDATIONS OR PRECAUTIONS
Acetylene cylinders should be stored and used in an upright position. When using acetylene, close the cylinder valve before shutting off the regulator to permit the gas to bleed from the regulator. Avoid hazardous mixtures and sources of ignition. Formation of explosive copper acetylides can be avoided by using copper alloys proved successful through use in industry. Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipment of a compressed gas cylinder filled without the permission of the owner is a violation of Federal Law.

*Various Government agencies (i.e., Department of Transportation, Occupational Safety and Health Administration, Food and Drug Administration and others) may have specific regulations concerning the transportation, handling, storage or use of this product which will not be reflected in this data sheet. The customer should review these regulations to ensure that he is in full compliance.



HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

☐ ADD☐ DELETE☐ REVISED 1

Page _____ of _____ 2

FACILITY ID#	3	0	0	3	5								38	BUSINESS NAME	DRIESSEN AIS, INC.	3
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I. FACILITY INFORMATION

CHEMICAL LOCATION	14231 Commerce Drive															4
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	5	MAP #	Drawings #2	6	GRID #	STATILTEST	7							

II. CHEMICAL INFORMATION

CHEMICAL NAME	Oxygen, Compressed										WASTE	<input type="checkbox"/> Yes	8	TRADE SECRET	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	11
COMMON NAME	Oxygen										9	An EHS Chemical	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	12		
CAS #	7782-44-7										10	FIRE CODE HAZARD CLASSES (supplied by GGFD)					13

TYPE (Check one item only)	<input checked="" type="checkbox"/> a. PURE	<input type="checkbox"/> b. MIXTURE	<input type="checkbox"/> c. WASTE	14	RADIOACTIVE	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	15	CURIES	16	
PHYSICAL STATE (Check one item only)	<input type="checkbox"/> a. SOLID	<input type="checkbox"/> b. LIQUID	<input checked="" type="checkbox"/> c. GAS	17	FED HAZARD CATEGORIES	<input checked="" type="checkbox"/> a. FIRE	<input type="checkbox"/> b. REACTIVE	<input checked="" type="checkbox"/> c. PRESSURE RELEASE	18	<input type="checkbox"/> d. ACUTE HEALTH	<input type="checkbox"/> e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT	25 cu ft	19	MAXIMUM DAILY AMOUNT	150 cu ft	20	ANNUAL WASTE AMOUNT	0	21	STATE WASTE CODE	22
UNITS	<input type="checkbox"/> a. GALLONS	<input checked="" type="checkbox"/> b. CUBIC FEET	23	DAYS ON SITE	365	24	LARGEST CONTAINER	251 cu ft.	25	
*If EHS amount must be in pounds.										

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

STORAGE PRESSURE	<input type="checkbox"/> a. AMBIENT	<input type="checkbox"/> b. ABOVE AMBIENT	<input type="checkbox"/> c. BELOW AMBIENT	27
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STORAGE TEMPERATURE	<input type="checkbox"/> a. AMBIENT	<input type="checkbox"/> b. ABOVE AMBIENT	<input type="checkbox"/> c. BELOW AMBIENT	<input type="checkbox"/> d. CRYOGENIC	28
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%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	29	<input type="checkbox"/> Yes <input type="checkbox"/> No	31
2	29	<input type="checkbox"/> Yes <input type="checkbox"/> No	31
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 #	UN 1072	33
Refer to shipping papers or MSDS		
DOT HAZARD CLASS	2.2 non flammable gas	34
Refer to shipping papers or MSDS		
EPCRA	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	35
X		36
If EPCRA, Please Sign Here		

NFPA 704 HAZARD DIAMOND

FIRE (RED) → 0

HEALTH (BLUE) → 0

SPECIAL HAZARD → 0

WHITE OX/WL → 0

REACTIVE (YELLOW) → 0

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

06/05/1998 13:50

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MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: Oxygen, Compressed
CHEMICAL NAME: Oxygen **FORMULA:** O₂
SYNONYMS: Oxygen gas, Gaseous Oxygen, GOX
MANUFACTURER: Air Products and Chemicals, Inc.
7201 Hamilton Boulevard
Allentown, PA 18195 - 1501
1-800-752-1597

PRODUCT INFORMATION:
MSDS NUMBER: 1012
REVISION DATE: January 1995

REVISION: 5
REVIEW DATE: August 1997**

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Oxygen is sold as pure product > 99%.

CAS NUMBER: 7782-44-7

EXPOSURE LIMITS:

OSHA: Not established.

ACGIH: Not established

NIOSH: Not established.

SECTION 3: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Oxygen is an odorless, colorless, nonflammable gas stored in cylinders at high pressure. It is an oxidizing gas and vigorously accelerates combustion. Keep away from oils or grease. Rescue personnel should be aware of the extreme fire hazards associated with oxygen-enriched (>23%) atmospheres, and that self contained breathing apparatus (SCBA) may be required.

EMERGENCY TELEPHONE NUMBERS

(800) 523-9374 Continental U.S., Canada and Puerto Rico
(610) 481-7711 other locations

POTENTIAL HEALTH EFFECTS INFORMATION:

INHALATION: Breathing 80% or more oxygen at atmospheric pressure for more than a few hours may cause nasal stuffiness, cough, sore throat, chest pain and breathing difficulty. Breathing oxygen at higher pressure increases the likelihood of adverse effects within a shorter time period. Breathing pure oxygen under pressure may cause lung damage and also central nervous system effects resulting in dizziness, poor coordination, tingling sensation, visual and hearing disturbances, muscular twitching, unconsciousness and convulsions. Breathing oxygen under pressure may cause prolongation of adaptation to darkness and reduced peripheral vision.

EYE / SKIN CONTACT: No adverse effect.

CARCINOGENIC POTENTIAL: Oxygen is not listed as a carcinogen or potential carcinogen by NTP, IARC, or OSHA Subpart Z.

05/05/1999 12:50

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APCI DEC MTC 3.0.05

EXPOSURE INFORMATION**ROUTE OF ENTRY:** Inhalation**TARGET ORGANS:** Eyes, central nervous system**MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** Patients with chronic obstructive pulmonary disease retain carbon dioxide abnormally. If oxygen is administered to them, raising the oxygen concentration in the blood depresses their breathing and raises their retained carbon dioxide to a dangerous level.**SECTION 4: FIRST AID****INHALATION:** Move victim to fresh air or if in elevated pressures reduce oxygen pressures to 1 atmosphere. Call a physician. The physician should be advised that the victim has been exposed to a high concentration of oxygen. No treatment is required in the absence of symptoms or high pressure exposure.**EYE / SKIN CONTACT:** Not applicable.**NOTES TO PHYSICIAN:** Animal studies suggest that the administration of certain drugs, including phenothiazine drugs and chloroquine, increase the susceptibility to toxicity from oxygen at high pressures. Animal studies also indicate that vitamin "E" deficiency may increase susceptibility to oxygen toxicity.

Airway obstruction during high oxygen tension may cause alveolar collapse following absorption of the oxygen. Similarly, occlusion of the Eustachian tubes may cause retraction of the eardrum and obstruction of the paranasal sinuses may produce "vacuum-type" headache.

All individuals exposed for long periods to oxygen at high pressure and who exhibit overt oxygen toxicity should have ophthalmologic examinations.

SECTION 5: FIRE AND EXPLOSION**FLASH POINT:**
N/A**AUTOIGNITION TEMP:**
Nonflammable**FLAMMABLE LIMITS:**
Nonflammable**EXTINGUISHING MEDIA:** Oxygen is nonflammable but will support combustion. Use extinguishing media appropriate for surrounding fire.**HAZARDOUS COMBUSTION PRODUCTS:** None**SPECIAL FIRE FIGHTING INSTRUCTIONS:** Evacuate all personnel from the danger area. If possible, shut off flow of oxygen which is supporting the fire. Immediately cool containers with water spray from maximum distance. When cool move cylinders from fire area, if possible without risk. Self contained breathing apparatus may be required for rescue workers.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Oxygen vigorously accelerates combustion. Some materials which are noncombustible in air will burn in the presence of an oxygen enriched atmosphere (over 23%). Fire resistant clothing may burn and offer no protection in oxygen rich atmospheres. Oxygen may form explosive compounds when exposed to combustible materials or oil, grease, and other hydrocarbon materials. Pressure in a container can build up due to heat and it may rupture if pressure relief devices should fail to function. Upon exposure to intense heat or flame cylinder will vent rapidly and/or rupture violently. Most cylinders are designed to vent contents when exposed to elevated temperatures. Pressure in a container can build up due to heat and it may rupture if pressure relief devices should fail to function.**SECTION 6: ACCIDENTAL RELEASE MEASURES**Evacuate all personnel from affected area. Shut off source of oxygen if possible. Increase ventilation to release area. Personnel who have been exposed to high concentrations of oxygen should stay in a well-ventilated or open area for 30 minutes before going into a confined space or near an ignition source.
If leak is from container or its valve, call the Air Products emergency telephone number. If leak is in user's system close cylinder valve and vent pressure before attempting repairs.

2 of 6

OXYGEN
UPPER CYLINDER VALVE AND VENT PRESSURE BEFORE ATTEMPTING REPAIRS.
Pub 6 310-507

06/05/1998 13:50 610/06/5/8

APOL GEG MK16 SVCS

PAGE 03

SECTION 7: STORAGE AND HANDLING

STORAGE: Cylinders should be stored upright in a well-ventilated, secure area, protected from the weather. Storage area temperatures should not exceed 125° F (52° C) and area should be free of combustible materials. Storage should be away from heavily traveled areas and emergency exits. Avoid areas where salt or other corrosive materials are present. Cylinders should be separated from flammables by a minimum distance of 20 ft. or by a barricade of non-combustible material at least five ft. high having a fire resistance rating of at least 1/2 hour. Valve protection caps and valve outlet seals should remain on cylinders not connected for use. Separate full from empty cylinders. Avoid excessive inventory and storage time. Use a first-in first-out system. Keep good inventory records.

HANDLING: Do not drag, roll, or slide cylinder. Use a suitable handtruck designed for cylinder movement. Never attempt to lift a cylinder by its cap. Secure cylinders at all times while in use. Use a pressure reducing regulator or separate control valve to safely discharge gas from cylinder. Use a check valve to prevent reverse flow into cylinder. Do not overheat cylinder to increase pressure or discharge rate. Always open cylinder valve slowly. Do not use rapid opening valves (i.e., ball valves). If user experiences any difficulty operating cylinder valve, discontinue use and contact supplier. Never insert an object (e.g., wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve causing a leak to occur. Use an adjustable strap-wrench to remove over-tight or rusted caps.

All gauges, valves, regulators, piping and equipment to be used in oxygen service must be cleaned for oxygen service in accordance with Compressed Gas Association pamphlet G-4.1.

Carbon steel, stainless steel, copper, brass, nickel and their alloys are materials of construction that can be used in oxygen service. Use piping and equipment adequately designed to withstand pressures to be encountered. Oxygen is not to be used as a substitute for compressed air. Never use an oxygen jet for cleaning purposes of any sort, especially clothing, as it increases the likelihood of an engulfing fire. Use a check valve or other protective apparatus in any line or piping from the cylinder to prevent reverse flow.

When used in welding and cutting read and understand the manufacturer's instructions and the precautionary label on the products. Never strike an arc on a compressed gas cylinder or make a cylinder a part of an electrical circuit.

SPECIAL REQUIREMENTS: Always store and handle compressed gases in accordance with Compressed Gas Association, Inc. (ph. 703-412-0900) pamphlet CGA P-1, *Safe Handling of Compressed Gases in Containers*. Local regulations may require specific equipment for storage or use.

CAUTION: Compressed gas cylinders shall not be refilled except by qualified producers of compressed gases. Shipment of a compressed gas cylinder which has not been filled by the owner or with the owner's written consent is a violation of federal law.

SECTION 8: PERSONAL PROTECTION / EXPOSURE CONTROL

ENGINEERING CONTROLS: Provide ventilation and/or local exhaust to prevent accumulation of high concentrations of gas (>23%).

RESPIRATORY PROTECTION

GENERAL USE: None required.

EMERGENCY: Use SCBA due to possibility of fire when concentrations exceed 23%.

OTHER PROTECTIVE EQUIPMENT: Safety shoes and work gloves are recommended when handling cylinders. Clothing exposed to high concentrations may retain oxygen 30 minutes or longer and become a potential fire hazard. Stay away from ignition sources.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless gas

ODOR: Odorless

MOLECULAR WEIGHT: 32

BOILING POINT: -297.3°F (-183.0°C)

SPECIFIC GRAVITY (Air =1): At 70°F (21.1°C) and 1 Atm: 1.10

SPECIFIC VOLUME: 12.08 ft³/lb (0.754 m³/kg)

FREEZING / MELTING POINT: -361.9°F (-218.8°C)

VAPOR PRESSURE: Not applicable @ 70°F

GAS DENSITY: At 70°F (21.1°C) and 1 Atm: 0.083 lb /ft³ (1.328 kg/m³)

SOLUBILITY IN WATER: Vol./Vol. at 32°F (0°C): 0.049

SECTION 10: REACTIVITY / STABILITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY: Oils, grease, hydrocarbons and flammable materials.

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

At atmospheric concentration and pressure, oxygen poses no toxicity hazards.

Premature infants exposed to high oxygen concentrations may suffer delayed retinal damage which can progress to retinal detachment and blindness. Retinal damage may also occur in adults exposed to 100 % oxygen for extended periods (24 to 48 Hr).

At two or more atmospheres central nervous system (CNS) toxicity occurs. Symptoms include nausea, vomiting, dizziness or vertigo, muscle twitching, vision changes, and loss of consciousness and generalized seizures. At three atmospheres, CNS toxicity occurs in less than two hours, and at six atmospheres in only a few minutes.

SECTION 12: ECOLOGICAL INFORMATION

The atmosphere contains 21% oxygen. No adverse ecological effects are expected. Oxygen does not contain any Class I or Class II ozone depleting chemicals. Oxygen is not listed as a marine pollutant by DOT (49 CFR 171).

SECTION 13: DISPOSAL

UNUSED PRODUCT / EMPTY CONTAINER: Return container and unused product to supplier. Do not attempt to dispose of residual or unused quantities.

DISPOSAL: For emergency disposal, secure cylinder and slowly discharge gas to the atmosphere in a well ventilated area or outdoors.

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SECTION 14: TRANSPORTATION**DOT HAZARD CLASS:** 2.2 (Nonflammable Gas)**DOT SHIPPING LABEL:** Nonflammable Gas, Oxidizer**DOT SHIPPING NAME:** Oxygen, compressed**IDENTIFICATION NUMBER:** UN 1072**REPORTABLE QUANTITY (RQ):** None**PLACARD:** Nonflammable Gas or Oxygen

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure upright position in a well ventilated truck. Never transport in passenger compartment of a vehicle. An Oxygen label may be used for domestic shipment in the United States and Canada in place of the Non-flammable and Oxidizer labels (49CFR Part 172).

SECTION 16: REGULATORY INFORMATION**U.S. FEDERAL REGULATIONS****EPA - ENVIRONMENTAL PROTECTION AGENCY**

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 requires notification to the National Response Center of releases of quantities of hazardous substances equal to or greater than the reportable quantities (RQ) in 40 CFR 302.4.

CERCLA Reportable Quantity: None.

SARA TITLE III: Superfund Amendments and Reauthorization Act of 1980

SECTION 302: Requires emergency planning based on threshold planning quantities (TPQ) and release reporting based on reportable quantities (RQ) of EPA's extremely hazardous substances (40 CFR 355).

Oxygen is not listed as an Extremely Hazardous Substance.

SECTIONS 311 / 312: Require submission of material safety data sheets (MSDSs) and chemical inventory reporting with identification of EPA defined hazard classes. The hazard classes for this product are:

IMMEDIATE:	No	PRESSURE:	Yes
DELAYED:	No	REACTIVITY:	No
		FIRE:	Yes

SECTION 313: Requires submission of annual reports of releases of toxic chemicals that appear in 40 CFR 372.

Oxygen is not listed as a toxic chemical.

40 CFR PART 68: Risk Management for Chemical Accident Release Prevention. Requires the development and implementation of risk management programs at facilities that manufacture, use, store, or otherwise handle regulated substances in quantities that exceed specified thresholds.

Oxygen is not listed as a regulated substance.

TOXIC SUBSTANCE CONTROL ACT (TSCA): Oxygen is listed on the TSCA Inventory.

OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

29 CFR 1910.119: Process Safety Management of Highly Hazardous Chemicals. Requires facilities to develop a process safety management program based on Threshold Quantities (TQ) of highly hazardous chemicals.

Oxygen is not listed as a Highly Hazardous Chemical.

STATE REGULATIONS**CALIFORNIA:**

Proposition 65: This product does NOT contain any listed substances for which the State of California requires warning under this statute.

SCAQMD Rule: VOC = N/A

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SECTION 18: SUPPLEMENTAL INFORMATION**HAZARD RATINGS:****NFPA RATINGS:**

HEALTH: 0
FLAMMABILITY: 0
REACTIVITY: 0
SPECIAL: OX (oxidizer)

HMIS RATINGS:

HEALTH: 0
FLAMMABILITY: 0
REACTIVITY: 0

**Documents with Review Dates of January 1995 and August 1997 are identical in content and either may be used.

OXYGEN



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

CUPA

FACILITY INFORMATION

BUSINESS ACTIVITIES

Page 1 of 1

I. FACILITY IDENTIFICATION

FACILITY ID#	3	0	0	3	5						1. EPA ID # (Hazardous Waste Only)	2.	
												CAL00006333b	
BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As)												3.	
DRIESSEN AIRCRAFT INTERIOR SYSTEMS, 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)

1. Own or operate underground storage tanks?

☐ YES ☒ NO

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

2. Intent to upgrade existing or install new USTs?

☐ YES ☒ NO

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

3. 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

1. Generate hazardous waste?

☒ YES ☐ NO

9. ☒ EPA ID NUMBER - provide at the top of this page

2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC §25143.2)?

☐ YES ☒ NO

10. ☒ RECYCLABLE MATERIALS REPORT (one per recycler)

3. Treat hazardous waste on site?

☐ YES ☒ NO

11. ☒ ONSITE HAZARDOUS WASTE TREATMENT - FACILITY (Formerly DTSC Forms 1772)

4. Treatment subject to financial assurance requirements (for Permit by Rule and Condition Authorization)?

☐ YES ☒ NO

12. ☒ CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232)

5. Consolidate hazardous waste generated at a remove site?

☐ YES ☒ NO

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

6. Need to report the closure/removal of a tank that was classified waste and cleaned onsite?

☐ YES ☒ NO

14. ☒ HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)

E. LOCAL REQUIREMENTS

Cal-ARP: California Accidental Release Prevention Program
H&SC Chapter 6.95, Article 2, §25531 et seq

— Stationary Source with more than a Threshold Quantity of a Regulated Substance in a Process

☐ YES ☒ NO

15. ☒ REGULATED SUBSTANCE REPORTING FORM (Orange County CUPA)

**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.).

VOCAL + PAGING SYSTEM

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:

MAP + Plan Attached.

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.

1. Notify employees. Initiate evacuation procedures.
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 are available at your business. (List below any mitigation procedures specific to your business, if any.)

DRIESSEN AIRCRAFT INTERIOR SYSTEMS

ON-SITE EMERGENCY RESPONSE PLANNING GUILD

FOR OFFICE AND MANUFACTURING OPERATIONS

OCTOBER 2007
REVISED

DEVELOPED BY:

DRIESSEN: Human Resources

10781 Forbes Ave.
Garden Grove, CA 92868

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Section I

In Section I, you will learn the following about emergency response:

- **Purpose of Emergency Response Procedures**
- **OSHA Regulation Compliance**
- **Emergency Response Strategies**

Purpose

Establishing emergency procedures for the protection of facility employees is an standardized the various procedures written for this facility. This document has been developed by: Human Resources Department. Designated Safety Coordinator is Ana Lassek.

The objective of this procedure is to comply with relevant OSHA and voluntary professional standards and best practices of emergency planning to protect employees, property, and the public. OSHA standards addressed include:

Maintaining clear exit paths from buildings and the need for emergency plans.
Employee Emergency Plans and Fire Prevention Plans
Hazardous Materials
Medical Supplies and First Aid

These OSHA standards require a planned response for every facility, including the following:

- Facilities must have an Emergency Response Plan that addresses the actions employees must take to assure their collective safety during an emergency.
- The Emergency Response Plan must include information on applicable emergency procedures for general evacuation, fire reporting, medical emergencies, bomb threats, notification procedure for deaths, earthquakes or structural failure, and media-related events.
- All employees must be trained to respond to various emergencies that may occur. Employees must be notified whenever there are major changes to the procedures.
- The Safety Coordinator is responsible for training staff on actions to take when the emergency response plan is activated. Notify the Safety Coordinator of changes in personnel filling roles specified in the emergency response plan.

Emergency Response Strategy and Chain of Command

The general purpose of developing on-site emergency response procedures is to anticipate emergencies and lessen the potential for loss of life and property. Instituting appropriate response procedures will minimize the impact of an emergency. All employees must understand their responsibilities and those of their co-workers in the event of an emergency.

The Emergency Response Strategy and Chain of Command Overview outlines the response strategy and command chain for dealing with emergencies.

Emergency Response Strategy and Chain of Command Overview

1. Initial Notification is received by the Emergency Operations Center at: Human Resources Department. Initial call to 911 will be determined..

Emergency Personnel Notification

IF AN EMERGENCY SHOULD OCCUR THE FOLLOWING PERSONNEL ARE TO BE CONTACTED:

- The Human Resources Department will be the official Emergency Operations Center. Our Safety Coordinator, Ana Lassek, receives calls during normal hours of operation.
- The Facility Manager, Cynthia Funke, will take on the responsibility of the alternative Safety Coordinator during the absence of Ana Lassek. The Facility Manager will coordinate and work closely with the Safety Coordinator.
- The Stairwell Monitors should be a supervisor and/or lead person in the department closest to the top and bottom stairwells.
- The Searchers concerning verification of alarm and water systems during an emergency situation will be from the Facility Department.
- The Special Response Team Members are employees who have received specific training to respond to reasonably anticipated specific emergencies such as a chemical spill or medical emergency.

Chain Of Command

It is the responsibility of all employees to report immediately all incidents or conditions that pose a threat to life or property.

Call the Emergency Operations Center at ext. **270, Ana Lassek**, during 1st shift working hours. During 2nd shift working hours call **365 Tam Le and/or the security guard on duty.** * If you are not able to contact designated representative immediately inform the operator.

The person receiving the initial call will make necessary notifications regarding the reported emergency.

Director of Crisis Management _____ Del Hebert
Phone ext. (Include all ext. numbers.): _____ 205

Assistant Director of Crisis Management: _____ Jackie Fitzpatrick
Phone ext. (Include all ext. numbers.): _____ 219

Safety Coordinator: _____ Ana Lassek
Phone ext. (Include all ext. numbers.): _____ 270

Facility Manager: _____ 
Phone ext.: _____ 

Section II

General Information

In Section II, you will learn about the following emergency response systems:

- **Evacuation Alarm Systems**
- **Fire Detection Systems**
- **Types of Fire-Fighting Equipment**
- **Duties of the Following Key Employees:**
 - **Director of Crisis Management**
 - **Assistant Director of Crisis Management**
 - **Safety Coordinator**
 - **Facility Manager**
 - **Searchers**
 - **Special Response Team Members**
 - **Receptionist/Operator**

Evacuation Alarms and Building Fire Protection Systems

Driessen Aircraft Interior Systems has installed heat/rise fire detectors/sprinklers. ADT Security monitors this alarm 24-hours a day, seven days a week. Heat/rise detectors/sprinklers are installed throughout the office and warehouse areas. If an alarm is triggered, ADT will notify the local fire department.

On-Site Fire-Fighting Equipment and Systems

This part of the plan details the types of on-site fire-fighting equipment and systems. A variety of fire extinguishers are available. Always note the type of fire that the extinguisher is made for before using it on a fire. Driessen uses fire extinguisher that extinguish A,B and C fires. Basically, fires are classified into the following four kinds:

- Class A fires occur in ordinary materials, such as wood, paper, excelsior, rags, and rubbish.
- Class B fires occur in the vapor-air mixture over the surface of flammable liquids, such as gasoline, oil, grease, paints, and thinners.
- Class C fires occur in or near energized electrical equipment where nonconducting extinguishing agents must be used.
- Class D fires occur in combustible metals such as magnesium, titanium, zirconium, lithium, potassium, and sodium.

Facility Sprinkler System

Driessen has a sprinkler system throughout the warehouse and office areas. These sprinklers will only be activated in the area where the fire is located.

Emergency Response Roles For Employees

DIRECTOR OF CRISIS MANAGEMENT

The director is selected because he or she is familiar with and/or oversees facility activities during normal operations.

Director of Crisis Management: Del Hebert

Duties of Director of Crisis Management

Evaluates incoming emergency-related information as provided by safety coordinator.

- Notifies and updates upper management of status of the crisis.
- Acts as the official representative of the facility, communicating with outside fire and rescue agencies.
- Supports and monitors the emergency plan and activities.
- Provides information to media contacts.
- Assists in determining when the resumption of normal activities can begin.

ASSISTANT DIRECTOR OF CRISIS MANAGEMENT

The assistant director is also needs to be familiar with the facility activities. The assistant will also assume the role of Director of Crisis Management in the event of Directors absence.

Assistant Director of Crisis Management: Jackie Fitzpatrick

Duties of an Assistant Director of Crisis Management

- Evaluates the site of the emergency and assists emergency efforts of facility personnel.
- Communicates directly with the Director of Crisis Management.
- Assists contractors, visitors, and others as necessary.
- Responds to the emergency as necessary.
- Assists outside rescue and fire agencies.
- Assumes the role of the Director of Crisis Management when he or she is not available; assigns a temporary Assistant Director of Crisis Management.

SAFETY COORDINATOR

The Safety Coordinator instructs new employees on the facility's emergency response procedures, trains Searchers and Stairwell Monitors for their department, and performs a roll call in the event of an actual evacuation.

Safety Coordinator: Ana Lassek

Duties of a Safety Coordinator

- Safety Coordinator must be familiar with all Emergency Response Procedures.
- The protection of personnel is priority one. If there is ample time, designated department employees will secure any records of value and confidentiality.
- Safety Coordinator will assist, appoint and train the appropriate number of Stairwell Monitors, and their alternates. The Safety Coordinator will maintain a current list of these personnel and appoint replacements as necessary.
- The Safety Coordinator is responsible for training new department personnel in emergency response procedures as well as annual refresher training.
- In the event of an evacuation, the Safety Coordinator will perform a roll call and account for all persons and visitors. The Safety Coordinator will forward the results of the roll call immediately to the Director of Crisis Management.

FACILITY MANAGER

Facility Manager: [REDACTED]

Duties of an Facility manager

- Performs duties of Safety Coordinator when the Safety Coordinator is not available.
- Assists the Safety Coordinator during emergencies.
- Assures that gates and doors are open for emegancy personnel and fire vehicles.

- Evaluates emergency situation regarding the need to shut off utilities.
- Inspect the site for any possible hazardous conditions, i.e., fires, electrical shorts, plumbing leaks, structural damage, etc.
- During an emergency provide any assistance possible and review with the safety coordinator information status to make notifications to the emergency services as needed

SEARCHERS

Duties of Department Searchers (Facility Department)

- Searchers will seek out alarm systems for verification of potential emergency.
- Searchers shall carefully check all closed doors for the presence of heat and smoke before opening by checking the door with the back of the hand to detect heat, standing off to the side when opening doors.
- Searchers will close all open doors in areas that are vacated.
- Searchers will exit the building, proceed to their assigned assembly points, and report to the Safety Coordinator.

SPECIAL RESPONSE TEAM

In an emergency or disaster, the role of Special Response Team is crucial. They must be trained and must drill to practice their skills. Special Response Team may be the first line of defense in emergencies. The Special Response Team is trained in the following areas at your site:

- | | |
|--|---|
| <ul style="list-style-type: none"> • First aid, including cardiopulmonary resuscitation (CPR) • Critical operations and emergency shutdown procedures • Evacuation procedures | <ul style="list-style-type: none"> • Chemical spill control procedures • Search and emergency rescue procedures • Assistance to disabled employees • Identify the cause of emergency. |
|--|---|

1 st Shift	Upstairs:	Downstairs	Production Floor
	Yvette Hale Fermin Martinez Peter Huynh	Jane Mussman Ana Lassek Berenice Villegas	Jose Orozco Francisco Arceo Robert Calson
2 nd Shift	Production Floor	Tam Le	

Thi Nguyen is designated for building #1
 Jose Orozco/Francisco Arceo is designated to building #2
 Robert Carlson is designated to building #3

If the designated building ERT is not available the following ERT members can be called.

Jane Mussmann * Fermin Martinez * Peter Huynh * Tam Le * Berenice Villegas

RECEPTIONIST/OPERATOR

- Notify all personnel via paging system to evacuate building
- Coordinate communication regarding 911 emergency call with Emergency Operations Center (Ana Lassek).
- Is trained in various aspects of dealing with threats via mail, verbal or bombs.

ALL OTHER EMPLOYEES

All employees have the responsibility to report emergencies immediately to the Safety Coordinator

Duties of All Employees

- If an evacuation alarm sounds, evacuate immediately to your designated emergency site.
- Know the location of the nearest emergency exit in all areas you may enter.
- Assist any employee who is disabled.
- Assist visitors who are on company property during emergencies.

Section III Site-Specific Emergency Response Procedures

In this section, you will learn how to respond to emergencies through individual Action Plans. Notifying the Safety Coordinator of changes in personnel or phone extensions is the responsibility of each department.

- **General Evacuation Procedures**
- **Alternate Site Relocation Plan**
- **Bomb Threat Procedures**
- **Medical Emergency Procedures**
- **Death Notification Procedures**
- **Hazardous Materials Emergency Procedures**
- **Earthquake/Structural Failure Procedures**

- **Workplace Violence Emergency Response Procedures**
- **Media-Related Events**

General Evacuation Procedures

Responsibilities of All Facility Personnel

All facility personnel must understand the correct emergency response and general evacuation procedures for their location. During an evacuation, all facility personnel must assist visitors to exit the facility premises.

Use of Evacuation Procedure

The evacuation procedure can be used for a variety of events. All employees should be familiar with it.

- In the event that the facility needs to be evacuated you will hear the fire alarm or you will hear instructions over the intercom and/or by bull horn by management.

Upon notification that an evacuation is in progress, all company personnel and visitors will immediately use the nearest emergency exit and proceed to their designated colored emergency site located in the company's parking lot in front of buildings #1, #2, or #3.

Designated Evacuation Site Locations:

GREEN EMERGENCY SQUARE □

- All employees from Production, Spares, Machine Shop, and Stockroom in Building #1.

ORANGE EMERGENCY SQUARE □

- All employees from Production in Building #2

YELLOW EMERGENCY SQUARE □

- All employees from departments in Facility, Finance, Engineering, Human Resources, Material Resources, Quality Assurance, Program Administration and Sales in Building #1.
 - All employees from Static Test in Building #2
- The department manager/supervisor will take a roll call provided by human resources.
 - The Safety Coordinator will report these roll call results to the Director of Crisis Management or his alternate. The manager/supervisor shall emphasize the names of the persons from his or her department who may still be in the building.
 - Visitors will remain with a member of the company.
 - All personnel will stay assembled by department until further instructions are received from the Safety Coordinator.

Summary of Employees' Duties

Following are the duties of employees during an evacuation of the facility:

- Supervisors will oversee the evacuation of their own departments.
- Stairwell Monitors will check for heat and smoke to ensure the exit is safe and assist in the movement of people.

- Disabled Employees: Assign at least two employees to assist in the event of an evacuation or any other emergency that may occur.

Alternate Site Relocation Plan

If it is determined that your building cannot be reoccupied, your department's Alternate Site Relocation Plan shall be implemented. Our alternate site location is

Outside Building #3 YELLOW EMERGENCY SQUARE 

Bomb Threat Procedures

All company personnel should know the procedures for handling a bomb threat emergency. The procedures should be readily available and in the hands of all facility employees who, by reason of their assignment, might be expected to receive a phone call, a verbal or physical threat, or suspicious mail or packages. This category includes all telephone operators, mail handling personnel, receptionists, and secretaries to company officers.

Receiving a Threat

- If you receive a call, follow and document the call as outlined in the Bomb Threat Checklist for Phoned Threats later in this procedure.
- Record the time and the exact words of the message with particular emphasis on the description and the possible location of the device.
- Be familiar with Letter and Parcel Recognition Points outlined in this procedure.

Reporting a Threat

- Immediately call your Safety Coordinator.

Ana Lassek Ext. 270

- Local law enforcement agency will be contacted immediately by:

Ana Lassek, will call 911, they will deploy the bomb squad

What to Do While Speaking to a Caller

Basic instructions are to be calm, be courteous. Listen, do not interrupt the caller. Pretend difficulty with hearing the caller's conversation. Keep the caller talking. Did the caller appear familiar with the facility or building when he or she described the location of the bomb(s) or device(s)? If the caller seems agreeable to further conversation, ask questions like the following, jotting down his or her responses.

- What kind of bomb or device is it?
- How many devices did you place?
- When will it/they go off? At a certain hour?
- How much time remains until it goes off?
- Where is it located? In which building? In which area?

If the building is occupied, inform the caller that if the device detonates (goes off) it could cause injury or death.

Action to Take Immediately after Bomb Threat Call

Notify : **Call 911**

This person will contact local law enforcement agencies. Company executives will need to be notified.

Letter and Parcel Bomb Recognition Points

The following are letter and parcel bomb recognition points.

- Foreign mail, air mail, and/or special delivery
- Restrictive markings, such as "confidential" or "personal"
- Excessive postage
- Hand written or poorly typed addresses
- Incorrect titles
- Titles but no names
- Misspellings of common words
- Oily stains or discolorations
- No return address
- Excessive weight
- Rigid envelope
- Lopsided or uneven envelope
- Protruding wires or tinfoil
- Excessive securing material, such as masking tape or string
- Visual distractions

Action to Take after Receiving Suspicious Package

DO NOT HANDLE PACKAGE. EVACUATE AREA PACKAGE IS IN.

Notify: Ana Lassek On Extension: 270

The Director of Crisis Management will then notify local law enforcement agencies.
Local Emgerancyy Personnel: 911 FBI: (310) 477-6565 ATF: (213) 534-2450.

Medical Emergency Response Procedures

Purpose

The following describes the procedure that facility personnel should follow in the event of a serious injury, illness, or death. This procedure covers employees, visitors, contractors, and vendors.

Initial Response First Aid

- Do not attempt to move anyone who is unconscious, has a broken limb, or injured back. Keep person from moving.
- Administer first aid as trained. Practice Universal Precautions.
- Do check for breathing/open airway and administer rescue breathing if needed.
- Do administer CPR, if needed (and you are trained).
- Do try to stop severe bleeding.
- Do treat for shock and make patient comfortable.
- Do get all information concerning the victim and accident or illness if person is conscious (signs, symptoms, allergies, medication taken, pertinent past illnesses, last oral intake, events leading to pertinent past illnesses, events leading to the illness/injury).
If contact was made with blood or body fluids follow the company's Bloodborne Pathogens Standard Exposure Control Plan.
- Document the exposure event in writing.
- Do have victim follow up with visit to his or her physician.

Death Notification Procedure

Upon discovering a person who is dead, contact Human Resources Department and provide the following information.

1. Location of body.
2. Name of deceased, department, or employer, if known.
3. If known, circumstances related to the death.

Secure the area and minimize disturbing the death area prior to the arrival of the police. Remain with the deceased until the police arrive. Assist police and outside agencies with their investigation.

Hazardous Materials Emergencies

Off site Chemical spill/airborne Release

- If a hazardous chemical spill/airborne occurs in the surrounding outside areas of building one and two you will be notified as the course of action:

Courses of Action

- *General evacuation:* Announce evacuation routes to employees. Follow your facility's General Evacuation Procedure. All employees and other building occupants will exit to a predetermined point of assembly. **[In the parking lot close to building #1, #2, or #3]**
- *Isolate building:* If authorities order that people be sheltered in place, employees and building occupants would remain in the building. Outside air sources, such as fans and doors, would be shut down.

On-Site Spill or Release of Hazardous Materials

Spill

In the event Driessen has a hazardous waste spill or Air Release of potentially harmful material call Cynthia Funke Facilities Manager Ext. 204:

- Evacuate employees, contractors, and visitors from the immediate area affected.
- If you have been trained to do so, try to stop the source of the release.

List of On-Site Hazardous Materials

Plan ahead. Develop response plans for hazardous releases from materials you may have on site. This is crucial during new construction or remodeling. List your on-site hazardous materials and their locations in the following table.

MSDSs are kept, outside of quality control

LIST OF ON-SITE HAZARDOUS MATERIALS		
HAZARDOUS MATERIAL	MANUFACTURER	LOCATION IN THE FACILITY
Methylene Chloride	Gallade Chemical Inc	Spare and Decor
Acetone		Throughout Company
Alcohol		Throughout Company

Earthquake/Structural Failure Procedures

In the event of an earthquake and/or structural failure, there will be very little, if any, warning time in which to react. Advise facility employees, contractors, and visitors (all building occupants) to take the following actions:

- If you are inside, protect yourself immediately by going under the nearest table or desk.
- During the tremors, do not attempt to exit the building. Most fatalities occur when people fail to take cover.
- When tremors have stopped, evacuate immediately. Damage to the structure is likely.
- Follow your facility's general evacuation plan.
- If the building is not to be reoccupied, follow the facility Alternate Site Relocation Plan.
- Do not enter a damaged building until the Director of Crisis Management gives approval to reenter the structure.

Important note: At the first opportunity, shut off utility service to the building structure if damage occurred. Services should remain off until the building can be inspected.

Workplace Violence Emergency Response Procedures

Workplace Violence

All employees are entitled to a safe and violence-free workplace. If you know of a potential concern or need to report an incident, contact your supervisor and human resources.

Description of Physical Characteristics Form

Perpetrator 1

Perpetrator 2

Male/Female _____

Race/Nationality _____

Height _____ Weight _____ Build _____

Hair Color/Length _____ Glasses _____ Eye Color _____

Scars or Marks _____

Weapon Type_____ (revolver, automatic rifle, shotgun, etc.)

Jewelry_____ Clothing: Jacket_____

Shirt_____ Pants_____ Hat_____ Shoes_____

Vehicle: Type_____ Model/Year_____

Color_____ License Plate_____

Additional Information on Perpetrator 1: _____

Additional Information on Perpetrator 2: _____

Do not discuss any details of the event until the police are through taking statements from you and your co-workers. Thank you for your cooperation.

Media-Related Events

Duties of Company Spokesperson

To best serve the interests of the facility, **TBD** has been designated as a spokesperson.

Jackie Fitzpatrick is the backup spokesperson.

The designated spokesperson should do the following:

- If the incident or disaster occurred at the company facility, set up the press area away from incident area.
- Remain in contact with the press.
- Provide information that is factual.
- Log and record all information given to the media.
- Avoid speculation on causes of events, amount of damage, and seriousness of injuries.
- Never release names of persons to the press. Let law enforcement agencies handle this area.
- Always stress the positive.

Notifying Relatives of Injured Employees, Contractors, and/or Visitors

When relatives of people injured in an emergency need to be notified, follow these steps:

1. Director of Crisis Management and Human Resources will contact family members.

Section V

Site-Specific Information

This section, can be located within Driessens Training Manual.

- **Drills and Testing Information**
- **Emergency Response Exercise/Event Documentation Form**
- **Exit, Stairs, and Assembly Point Information**
- **Location Maps of Buildings, Floors, Exits, Fire-Fighting Equipment**
- **Maps of Grounds and Assembly Points**

Exit, Stairs, & Assembly Information

Exit Door Information

See attached floor plan for exit locations

Building #1

DOOR # 1: Lobby Doors

DOOR # 2: Next to Human Resources, leads to production floor

DOOR # 3: Next to Purchasing, leads to production floor

DOOR # 4: Roll up door off of shipping, leads to left side of building

DOOR # 5: Off of spares, leads to front of building

DOOR # 6: In production cafeteria, leads to the back of the building

DOOR #7: Off of bonding, leads to right side of the building

DOOR # 8: Off the lobby into the small cafeteria, leads to patio and front of building

DOOR # 9: Off of electrical department, leads to the front far right side of the building

DOOR # 10: Off of the panel press department, leads to the back right side of the building

DOOR # 11: Off of painting department, leads to the back of the building in the middle

DOOR # 12: Stockroom roll up door, leads to the back of the building in the middle

EXIT DOORS

BUILDING #2

DOOR #1: Exit side door by Building#3

DOOR#2: Exit side door by bike racks

DOOR#3: Exit front glassed door through offices

BUILDING#3

DOOR#1: Exit side door by Building #2

DOOR#2: Exit side glassed door by Forbes Avenue

Stairway Information

STAIRWAY # 1: Front lobby stairday

STAIRWAY # 2: From engineer to Human Resources.

STAIRWAY #3: Emergency stairwell from Engineering to front of building

STAIRWAY # 4: From Training Room to outside of Electrical dept.

**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.

Agency

Garden Grove Fire Department, Police, Paramedics
Office of Emergency Services (OES)

National Response Center

Phone Numbers

911
(800) 852-7550 or
(916) 427-4341
(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.
- ☒ 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.

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.

FACILITIES MANAGER / OFFICE - BUSINESS PLAN BINDER

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: _____

Name: _____

Title: _____

Date: _____



FACILITY MANAGER

6/19/09



CALIFORNIA CHEMICAL INVENTORY FORM

DESCRIPTION PAGE

FORM 3

(1) ☒ ADD ☒ DELETE ☐ REVISE

(2) PAGE 1 OF 1

BUSINESS NAME (3)

Driessen Aircraft Interior Systems

CHEMICAL LOCATION (4)
(Address, Area, Building, etc.)

10781 Forbes Av. / All mfg. areas

(5) CONFIDENTIAL LOCATION
EPCRA ☐ YES ☒ NO

MAP # (if more than one) (6)

GRID #
(FROM MAP)

(7) A-6 + 1-5

CHEMICAL NAME (8)

Araldite 2015 / A

COMMON NAME (9)

Epoxy Adhesive Resin

CAS# (10)

FIRE CODE

HAZARD CLASSES (13)

TRADE SECRET (11)

☐ YES ☒ NO

*IF EPCRA SEE INSTRUCTIONS

AN EHS CHEMICAL (12)

☐ YES ☒ NO*IF EHS BOX IS "YES"
ALL AMOUNTS MUST BE LBS

(36) FACILITY ID# 30 035

TYPE (14)

☐ PURE ☒ MIXTURE ☐ WASTE

RADIOACTIVE (15)

☐ YES ☒ NO CURIES

PHYSICAL STATE (17)

☐ SOLID ☒ LIQUID ☐ GAS

LARGEST CONTAINER (21)

55 gal. drum

FED HAZARD
CATEGORIES (18)☒ FIRE ☐ REACTIVE ☐ PRESSURE RELEASE ☒ ACUTE HEALTH ☒ CHRONIC HEALTHSTATE WASTE
CODE (19)

UNITS (22)

☒ GAL ☐ CU FT
☐ LBS ☐ TONS

MAX DAILY AMT (23)

10 GAL

DAYS ON SITE (20)

365

*If EHS, amounts must be in lbs.

AVG DAILY AMT (24)

1 GAL

ANNUAL WASTE AMT (25)

256 GAL

STORAGE
CONTAINER (26)☐ ABOVE GROUND TANK ☐ CAN ☐ BOX(S) ☐ TANK WAGON
☐ UNDER GROUND TANK ☐ CARBOY ☐ CYLINDER ☐ RAIL CAR
☐ TANK INSIDE BUILDING ☐ SILO ☐ GLASS CONTAINER ☐ TOTE BIN
☒ STEEL DRUM ☐ FIBER DRUM ☐ PLASTIC CONTAINER ☐ Other
☐ PLASTIC/NONMETALLIC DRUM ☐ BAG(S) ☐ IN MACHINERY OR EQUIP.PRESSURE
STORAGE (27)☐ AMBIENT ☐ ABOVE AMBIENT ☐ BELOW AMBIENTSTORAGE
TEMPERATURE (28)☐ AMBIENT ☐ ABOVE AMBIENT ☐ BELOW AMBIENT ☐ CRYOGENIC

(29) % WT

(30) HAZARDOUS COMPONENTS

(31) EHS

(32) CAS#

(1) 0.447

Quartz (SiO₂) / Crystalline Silica☒ YES ☐ NO

14808-60-7

(2)

Oxirane / Butanediol Diglycidyl Ether

☐ YES ☒ NO

2425-79-8

(3)

Phenol

☐ YES ☒ NO

25068-38-6

(4)

☐ YES ☐ NO

(5)

☐ YES ☐ 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.

(33) NFPA CLASSIFICATION

UNDOT#

Refer to shipping papers or MSDS

DOT HAZARD CLASS not regulated

Refer to shipping papers or MSDS

NFPA 704 HAZARD DIAMOND

FIRE (RED)

HEALTH
(BLUE)REACTIVE
(YELLOW)SPECIAL
HAZARDWHITE
OX/WL(34) EPCRA ☐ YES ☒ NO

X

(35) If EPCRA, Please Sign Here

MAKE AS MANY COPIES OF CHEMICAL
INVENTORY FORM AS NEEDED

4917 Dawn Avenue
East Lansing, MI 48823-5691

8am to 4:30pm Phone: (517) 351-5900
24-Hour Health/Environmental Emergency Phone: 1-888-354-3323

Effective Date: 1/8/01

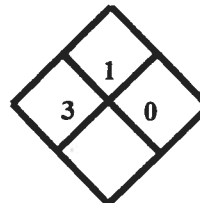
Material Safety Data Sheet

MSDS No: 5631

1. PRODUCT IDENTIFICATION

Trade Name: Araldite 2015/A

Chemical Family: Epoxy



NFPA RATING

Health	3*
Flammability	1
Reactivity	0
Protective Equipment	

HMIS RATING

Intended Use or Product Type: Toughened Adhesive Resin.

2. COMPOSITION / INFORMATION ON INGREDIENTS

O S H A	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS					CARCINOGEN STATUS		
			ACGIH		OSHA		MFR.	IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
*	14808-60-7	Quartz (SiO ₂)	.1	NE	mg/m ³	NE	NE	Yes	Yes	NR
	Common Name:	Crystalline Silica								
*	2425-79-8	Oxirane, 2,2'-[1,4-butanediylbis(oxyethylene)]bis-Butanediol Diglycidyl Ether	NE	NE	NE	NE	NE	NR	NR	NR
	Common Name:									
*	25068-38-6	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane Bisphenol A Diglycidyl Ether Polymer	NE	NE	NE	NE	NE	NR	NR	NR
	Common Name:									
*	60506-81-2	2-Propenoic acid, 2-[[[3-hydroxy-2,2-bis[[[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester	NE	NE	NE	NE	NE	NR	NR	NR
	Common Name:									
*	67924-34-9	Phenol, 4-(1,1-dimethylethyl)-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol] Bisphenol A Epoxy Resin	NE	NE	NE	NE	NE	NR	NR	NR
	Common Name:									

* = OSHA Hazardous Ingredient

3. HAZARDS IDENTIFICATION

Emergency Overview: Causes severe skin irritation. Causes eye irritation. May cause skin burns and allergic skin reaction.

Primary Route(s) of Entry: Dermal; heated product may produce inhalable vapors.

Chronic: Notice! Contains crystalline silica. Breathing dust may cause cancer and delayed lung injury. This product contains Crystalline silica. Repeated inhalation of respirable free Crystalline silica dust may cause delayed lung injury (silicosis) and cancer.

4. FIRST AID MEASURES

Ingestion: If conscious, give 2 - 4 glasses of water to drink. Do not induce vomiting. Call a physician.

Skin: Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes.

Inhalation: Remove to fresh air. Call a physician.

Eyes: Immediately flush eyes with water for at least 15 minutes. Call a physician.

Overexposure Effects: Causes severe skin irritation. Causes eye irritation. May cause skin burns and allergic skin reaction.

Medical Conditions Aggravated by Exposure: Skin and eye conditions.

Additional Information: Referral to a physician is recommended if there is any question about the seriousness of any injury.

5. FIRE FIGHTING MEASURES

Flash Point:	> 200°F (> 93 °C)
Flash Point Method Used:	Estimated
Flammable Limits in Air (Lower - % by volume):	Not established
Flammable Limits in Air (Upper - % by volume):	Not established

Fire Fighting Extinguishing Media: Carbon dioxide, dry chemical, foam, water.

Fire Fighting Equipment: Use self-contained breathing apparatus.

Fire and Explosion Hazards: Decomposition and combustion products may be toxic.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Remove spillage by absorbing in absorbent material.

7. HANDLING AND STORAGE

Signal Word: Danger!

Precautions: Causes severe skin irritation and may cause skin burns. Can cause eye irritation and allergic skin reaction. Do not get on skin or on clothing. Avoid contact with eyes. Wash thoroughly after handling. Notice! Contains crystalline silica. Breathing dust may cause cancer and delayed lung injury.

Other Handling Information: Crystalline silica may be generated when machining cured products. Overexposure may create possible cancer and silicosis hazard.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin Protection: Wear impermeable gloves.

Respiratory Protection: Use NIOSH approved organic vapor cartridge respirator when vapor/mist exposure is likely.

Eye Protection: Wear splash-proof chemical goggles.

Engineering Controls: General mechanical and local exhaust in accordance with ACGIH recommendations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Light Beige
Odor:	Slight
Physical State:	Paste
Solubility in Water:	Insoluble
Vapor Pressure:	Not Determined
Specific Gravity:	1.43 g/ml
Boiling Point:	Not Determined
Evaporation Rate:	Not Determined
Vapor Density:	Not Determined
VOC:	0 g/L
pH:	Not Determined

Percent Volatile: Negligible.

10. STABILITY AND REACTIVITY

Conditions to Avoid: Excessive heat for prolonged periods of time.

Stability: Stable.

Incompatibility: Strong oxidizers, acids and bases.

Hazardous Decomposition Products: Combustion may form toxic materials, such as carbon dioxide, carbon monoxide.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Sensitization: Possible in susceptible individuals.

Carcinogenicity: Notice! Contains crystalline silica. Breathing dust may cause cancer and delayed lung injury.

Skin Irritation: Severe skin irritant.

Eye Irritation: Irritant.

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Consult qualified local or corporate personnel for method that will comply with local, state and federal health and environmental regulations.

14. TRANSPORT INFORMATION

DOT: Non-Bulk

Proper Shipping Name:

Resin compounds, N.O.I.

Department of Transportation: Not regulated as a hazardous material by the U.S. Dept. of Transportation (DOT) 49 CFR 172.101 hazardous materials table.

15. REGULATORY INFORMATION

US Federal Regulations:

Occupational Safety and Health Act (OSHA): This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261).

SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372).

TSCA Section 8(b) - Inventory Status: Chemical components listed on TSCA Inventory.

TSCA Section 12(b) - Export Notification: This product contains the following chemical(s) that are subject to a Section 12(b) export notification:

Effective Date: 1/8/01

Chemical Name: Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-
Common Name: Diglycidyl Ether of Bisphenol A
CAS Number: 1675-54-3

State Regulations:

California Proposition 65: The following is required composition information. This product contains the following chemical(s) which are currently listed on the California list of Known Carcinogens and Reproductive Toxins:

Chemical Name: Quartz (SiO₂)
Common Name: Crystalline Silica
CAS Number: 14808-60-7
Percent in Composition: 0.447 % by wt
Comment: Warning! This chemical is known to the State of California to cause cancer.

Chemical Name: Arsenic
CAS Number: 7440-38-2
Percent in Composition: 0 % by wt
Comment: Warning! This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm.

Chemical Name: Lead
CAS Number: 7439-92-1
Percent in Composition: 0 % by wt
Comment: Warning! This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm.

Pennsylvania Right-to-Know: The following is required composition information:

Chemical Name: Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane
Common Name: Bisphenol A Diglycidyl Ether Polymer
CAS Number: 25068-38-6
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Carbonic acid calcium salt (1:1)
Common Name: Calcium Carbonate
CAS Number: 471-34-1
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Talc
Common Name: Talc
CAS Number: 14807-96-6
Comment: Hazardous Substance

Chemical Name: Oxirane, 2,2'-[1,4-butanediylbis(oxymethylene)]bis-
Common Name: Butanediol Diglycidyl Ether
CAS Number: 2425-79-8
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Siloxanes and silicones, di-me, reaction products with silica
Common Name: Amorphous Hydrophobic Fumed Silica
CAS Number: 67762-90-7

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Phenol, 4-(1,1-dimethylethyl)-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol]

Common Name: Bisphenol A Epoxy Resin

CAS Number: 67924-34-9

Comment: Not on Pennsylvania Hazardous Substance List

16. OTHER INFORMATION

MSDS No:

5631

Approved By:

Kenneth L. Payne

Title:

E,H&S Manager

Disclaimer: The following supercedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled or lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.



CALIFORNIA CHEMICAL INVENTORY FORM

DESCRIPTION PAGE

FORM 3

(1) ☒ ADD ☒ DELETE ☐ REVISE

(2) PAGE 1 OF 1

BUSINESS NAME (3)

Driessen Aircraft Interior Systems

CHEMICAL LOCATION (4)

(Address, Area, Building, etc.)

10781 Forbes Av. / All mfg. areas

(5) CONFIDENTIAL LOCATION

EPCRA ☐ YES ☒ NO

MAP # (if more than one) (6)

GRID #
(FROM MAP)

(7) A-L-1-5

CHEMICAL NAME (8)

Araldite 2015/B

COMMON NAME (9)

Adhesive Hardener

CAS# (10)

FIRE CODE

HAZARD CLASSES (13)

TRADE SECRET (11)

☐ YES ☒ NO

*IF EPCRA SEE INSTRUCTIONS

AN EHS CHEMICAL (12)

☐ YES ☒ NO*IF EHS BOX IS "YES"
ALL AMOUNTS MUST BE LBS

(36) FACILITY ID# 300035

TYPE (14)

☐ PURE ☒ MIXTURE ☐ WASTE

RADIOACTIVE (15)

☐ YES ☒ NO CURIES

PHYSICAL STATE (17)

☐ SOLID ☒ LIQUID ☐ GAS

LARGEST CONTAINER (21)

55 gal. Drum

FED HAZARD
CATEGORIES (18)☒ FIRE ☐ REACTIVE ☐ PRESSURE RELEASE ☒ ACUTE HEALTH ☒ CHRONIC HEALTHSTATE WASTE
CODE (19)UNITS (22) ☒ GAL ☐ CU FT
☐ LBS ☐ TONS

MAX DAILY AMT (23)

10 Gal

DAYS ON SITE (20)

365

*If EHS, amounts must be in lbs.

AVG DAILY AMT (24)

1 Gal

ANNUAL WASTE AMT (25)

75 Gal

STORAGE
CONTAINER (26)☐ ABOVE GROUND TANK ☐ CAN ☐ BOX(S) ☐ TANK WAGON
☐ UNDER GROUND TANK ☐ CARBOY ☐ CYLINDER ☐ RAIL CAR
☐ TANK INSIDE BUILDING ☐ SILO ☐ GLASS CONTAINER ☐ TOTE BIN
☒ STEEL DRUM ☐ FIBER DRUM ☐ PLASTIC CONTAINER ☐ Other
☐ PLASTIC/NONMETALLIC DRUM ☐ BAG(S) ☐ IN MACHINERY OR EQUIP.PRESSURE
STORAGE (27)☐ AMBIENT ☐ ABOVE AMBIENT ☐ BELOW AMBIENTSTORAGE
TEMPERATURE (28)☐ AMBIENT ☐ ABOVE AMBIENT ☐ BELOW AMBIENT ☐ CRYOGENIC

(29) % WT

(30) HAZARDOUS COMPONENTS

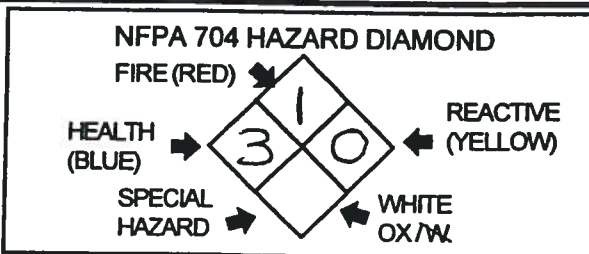
(31) EHS

(32) CAS#

(1)	Diethylene Triamine	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	111-40-0
(2)	Aminoethylpiperazine	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	140-31-8
(3)	Synthetic Rubber	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	68683-29-4
(4)		<input type="checkbox"/> YES <input type="checkbox"/> NO	
(5)		<input type="checkbox"/> YES <input type="checkbox"/> NO	

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

(33) NFPA CLASSIFICATION

UNDOT# UN 2735
Refer to shipping papers or MSDS
DOT HAZARD CLASS 8 Corrosive
Refer to shipping papers or MSDS(34) EPCRA ☐ YES ☒ NO

X

(35) If EPCRA, Please Sign Here

MAKE AS MANY COPIES OF CHEMICAL
INVENTORY FORM AS NEEDED

4917 Dawn Avenue
East Lansing, MI 48823-5691

8am to 4:30pm Phone: (517) 351-5900
24-Hour Health/Environmental Emergency Phone: 1-888-354-3323

Effective Date: 2/28/01

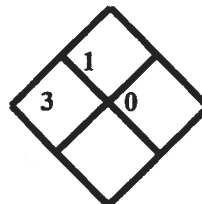
Material Safety Data Sheet

MSDS No: 5632

1. PRODUCT IDENTIFICATION

Trade Name: Araldite 2015/B

Chemical Family: Amine



NFPA RATING

Health	3*
Flammability	1
Reactivity	0
Protective Equipment	

HMIS RATING

Intended Use or Product Type: Toughened Adhesive Hardener.

2. COMPOSITION / INFORMATION ON INGREDIENTS

O S H A	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS					CARCINOGEN STATUS		
			ACGIH		OSHA		MFR.	IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
*	111-40-0	1,2-Ethanediamine, N-(2-aminoethyl)- Diethylenetriamine Common Name:	1 ppm	NE	ppm	NE	NE	NR	NR	NR
*	140-31-8	1-Piperazineethanamine Aminoethylpiperazine Common Name:	NE	NE	NE	NE	NE	NR	NR	NR
*	68683-29-4	Pentanoic Acid, 4,4'-Azobis(4-Cyano-, polymer with 1,3-Butadiene, 1-Piperazine Ethanamine and 2-Propenenitrile) Synthetic Rubber Common Name:	NE	NE	NE	NE	NE	NR	NR	NR
*	80-05-7	Phenol, 4,4'-(1-methylethylidene)bis- Bisphenol A Common Name:	NE	NE	NE	NE	TLV 5 mg/m3	NR	NR	NR
*	90-72-2	Phenol, 2,4,6-tris[(dimethylamino)methyl]- 2,4,6-Tris(Dimethylaminomethyl)Phenol Common Name:	NE	NE	NE	NE	TLV 5 ppm	NR	NR	NR
	31326-29-1	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N-(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane	NE	NE	NE	NE	NE	NR	NR	NR

Effective Date: 2/28/01

	Common Name:	DETA/Epoxy resin adduct								
	35860-37-8	TRIISOPROPYLNAPHTHALENE	NE	NE	NE	NE	NE	NR	NR	NR
	38640-62-9 Common Name:	Naphthalene, bis(1-methylethyl)- Diisopropyl naphthalene	NE	NE	NE	NE	NE	NR	NR	NR
	68605-86-7 Common Name:	Fatty acids, tall-oil, polymers with linoleic acid dimers and tetraethylenepentamine Amine adduct	NE	NE	NE	NE	NE	NR	NR	NR

NE = Not Established NR = Not Reviewed * = OSHA Hazardous Ingredient

3. HAZARDS IDENTIFICATION

Emergency Overview: Corrosive - Causes skin and eye burns. Causes respiratory irritation. May cause allergic skin and respiratory reactions. Harmful if absorbed through skin.

Primary Route(s) of Entry: Dermal; heated product may produce inhalable vapors.

Acute Exposure: Corrosive. Causes skin and eye burns.

Chronic: Overexposure may cause damage to blood, kidney, liver, skin, and urinary bladder.

4. FIRST AID MEASURES

Ingestion: If conscious, give 2 - 4 glasses of water to drink. Do not induce vomiting. Call a physician.

Skin: Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes.

Inhalation: Remove to fresh air. Call a physician.

Eyes: Immediately flush eyes with water for at least 15 minutes. Call a physician.

Overexposure Effects: Corrosive - causes skin and eye burns. Causes respiratory irritation. Harmful if absorbed through skin. May cause allergic skin and respiratory reactions.

Medical Conditions Aggravated by Exposure: Skin, eye and pulmonary conditions.

Additional Information: Referral to a physician is recommended if there is any question about the seriousness of any injury.

5. FIRE FIGHTING MEASURES

Flash Point: > 200°F (> 93 °C)

Effective Date: 2/28/01

Flash Point Method Used:	Estimated
Flammable Limits in Air (Lower - % by volume):	Not established
Flammable Limits in Air (Upper - % by volume):	Not established

Fire Fighting Extinguishing Media: Carbon dioxide, dry chemical, foam, water.

Fire Fighting Equipment: Use self-contained breathing apparatus.

Fire and Explosion Hazards: Decomposition and combustion products may be toxic.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Remove spillage by absorbing in absorbent material.

7. HANDLING AND STORAGE

Signal Word: Danger!

Precautions: Corrosive - causes skin and eye burns. Causes irritation if inhaled and can cause allergic respiratory reaction and allergic skin reaction. Can be harmful if absorbed through skin. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or mist. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling. Notice! Overexposure may have effects on blood, kidney, liver, skin, and urinary bladder.

Other Handling Information: Nuisance dust may be generated when sanding or sawing cured material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin Protection: Wear impermeable gloves.

Respiratory Protection: Use NIOSH approved organic vapor cartridge respirator when vapor/mist exposure is likely.

Eye Protection: Wear splash-proof chemical goggles.

Engineering Controls: General mechanical and local exhaust in accordance with ACGIH recommendations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber Liquid
Color:	Caramel Color
Odor:	Ammoniacal
Physical State:	Thixotropic Paste
Solubility in Water:	Not Determined
Vapor Pressure:	Not Determined
Specific Gravity:	1.381 g/ml (water = 1)
Boiling Point:	Not Determined
Evaporation Rate:	Not Determined
Vapor Density:	Not Determined
VOC:	87.849 g/L

Effective Date: 2/28/01

pH: Not Determined

Percent Volatile: Negligible.

10. STABILITY AND REACTIVITY

Conditions to Avoid: Excessive heat for prolonged periods of time.

Stability: Stable.

Incompatibility: Strong oxidizers, acids and bases.

Hazardous Decomposition Products: Combustion may form toxic materials, such as carbon dioxide, carbon monoxide.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Sensitization: Causes allergic skin and respiratory sensitivity in some people.

Skin Irritation: Corrosive. Causes burns.

Eye Irritation: Corrosive. Causes burns.

12. ECOLOGICAL INFORMATION**13. DISPOSAL CONSIDERATIONS**

Waste Disposal Method: Consult qualified local or corporate personnel for method that will comply with local, state and federal health and environmental regulations.

14. TRANSPORT INFORMATION

DOT: Non-Bulk

Proper Shipping Name:

Technical Shipping Name (If n.o.s.):

Hazard Class:

ID Number:

Packing Group:

Label:

Polyamines, liquid, corrosive, n.o.s.

Diethylene triamine, N-aminoethyl piperazine

8

UN 2735

PG II

Corrosive

15. REGULATORY INFORMATION

Effective Date: 2/28/01

US Federal Regulations:

Occupational Safety and Health Act (OSHA): This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261).

SARA Title III: Section 313 Toxic Chemical List (TCL): This product contains a toxic chemical(s) for routine annual toxic chemical release reporting under section 313 (40 CFR 372). This information must be included in all MSDS's copied or distributed for this material.

Chemical Name: Phenol, 4,4'-(1-methylethylidene)bis-

Common Name: Bisphenol A

Percent in Composition: 1.2574 % by wt

Comment:

TSCA Section 8(b) - Inventory Status: Chemical components listed on TSCA Inventory.

TSCA Section 12(b) - Export Notification: This product contains the following chemical(s) that are subject to a Section 12(b) export notification:

Chemical Name: 1,2-Ethanediamine, N-(2-aminoethyl)-

Common Name: Diethylenetriamine

CAS Number: 111-40-0

State Regulations:

California Proposition 65: The following is required composition information. This product contains the following chemical(s) which are currently listed on the California list of Known Carcinogens and Reproductive Toxins:

Chemical Name: Benzene, methyl-

Common Name: Toluene

CAS Number: 108-88-3

Percent in Composition: 0 % by wt

Comment: Warning! This chemical is known to the State of California to cause birth defects or other reproductive harm.

Pennsylvania Right-to-Know: The following is required composition information:

Chemical Name: Sulfuric acid, barium salt (1:1)

Common Name: Barium Sulfate

CAS Number: 7727-43-7

Comment: Hazardous Substance

Chemical Name: Pentanoic Acid, 4,4'-Azobis(4-Cyano-, polymer with 1,3-Butadiene, 1-Piperazine Ethanamine and 2-Propenenitrile)

Common Name: Synthetic Rubber

CAS Number: 68683-29-4

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Naphthalene, bis(1-methylethyl)-

Effective Date: 2/28/01

Common Name: Diisopropylnaphthalene
CAS Number: 38640-62-9
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Fatty acids, tall-oil, polymers with linoleic acid dimers and tetraethylenepentamine
Common Name: Amine adduct
CAS Number: 68605-86-7
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: 1,2-Ethanediamine, N-(2-aminoethyl)-
Common Name: Diethylenetriamine
CAS Number: 111-40-0
Comment: Hazardous Substance

Chemical Name: TRIISOPROPYLNAPHTHALENE
CAS Number: 35860-37-8
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: 1-Piperazineethanamine
Common Name: Aminoethylpiperazine
CAS Number: 140-31-8
Comment: Hazardous Substance

Chemical Name: Phenol, 4,4'-(1-methylethylidene)bis-
Common Name: Bisphenol A
CAS Number: 80-05-7
Comment: Environmental Hazardous Substance

16. OTHER INFORMATION

MSDS No:	5632
Approved By:	Kenneth L. Payne
Title:	E,H&S Manager

Disclaimer: The following supercedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled or lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.



CALIFORNIA CHEMICAL INVENTORY FORM
DESCRIPTION PAGE

FORM 3

(1) ☒ ADD ☒ DELETE ☐ REVISE

(2) PAGE 1 OF 1

BUSINESS NAME (3) Driessen Aircraft Interior Systems
CHEMICAL LOCATION (4) 10781 Forbes Av. / Panel Press (5) CONFIDENTIAL LOCATION EPCRA ☐ YES ☒ NO
MAP # (if more than one) (6) GRID# (FROM MAP) (7) J-2

CHEMICAL NAME (8) Nitrogen, or LIN TRADE SECRET (11) ☐ YES ☒ NO
COMMON NAME (9) Nitrogen *IF EPCRA SEE INSTRUCTIONS
CAS# (10) 7727-37-9 AN EHS CHEMICAL (12) ☐ YES ☒ NO
FIRE CODE
HAZARD CLASSES (13) *IF EHS BOX IS "YES"
ALL AMOUNTS MUST BE LBS
(36) FACILITY ID# 300035

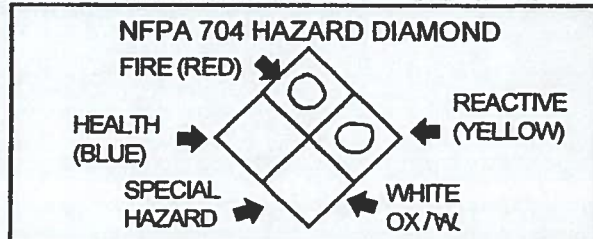
TYPE (14) ☒ PURE ☐ MIXTURE ☐ WASTE RADIOACTIVE (15) ☐ YES ☒ NO CURIES
PHYSICAL STATE (17) ☐ SOLID ☒ LIQUID ☒ GAS LARGEST CONTAINER (21) 304 Cu ft.
FED HAZARD CATEGORIES (18) ☐ FIRE ☐ REACTIVE ☒ PRESSURE RELEASE ☒ ACUTE HEALTH ☐ CHRONIC HEALTH
STATE WASTE CODE (19) UNITS (22) ☒ GAL ☒ CU FT ☐ LBS ☐ TONS MAX DAILY AMT (23) 912 cu ft
DAYS ON SITE (20) 365 *If EHS, amounts must be in lbs. AVG DAILY AMT (24) 608 cu ft
ANNUAL WASTE AMT (25) 0

STORAGE CONTAINER (26) ☐ ABOVE GROUND TANK ☐ CAN ☐ BOX(S) ☐ TANK WAGON
☐ UNDER GROUND TANK ☐ CARBOY ☒ CYLINDER ☐ RAIL CAR
☐ TANK INSIDE BUILDING ☐ SILO ☐ GLASS CONTAINER ☐ TOTE BIN
☐ STEEL DRUM ☐ FIBER DRUM ☐ PLASTIC CONTAINER ☐ Other
☐ PLASTIC/NONMETALLIC DRUM ☐ BAG(S) ☐ IN MACHINERY OR EQUIP.
PRESSURE STORAGE (27) ☐ AMBIENT ☐ ABOVE AMBIENT ☐ BELOW AMBIENT
STORAGE TEMPERATURE (28) ☐ AMBIENT ☐ ABOVE AMBIENT ☐ BELOW AMBIENT ☒ CRYOGENIC

(29) % WT (30) HAZARDOUS COMPONENTS (31) EHS (32) CAS#
(1) ☐ YES ☐ NO
(2) ☐ YES ☐ NO
(3) ☐ YES ☐ NO
(4) ☐ YES ☐ NO
(5) ☐ YES ☐ NO

(33) NFPA CLASSIFICATION

UNDOT# UN 1066
Refer to shipping papers or MSDS
DOT HAZARD CLASS nonflammable gas
Refer to shipping papers or MSDS



(34) EPCRA ☐ YES ☒ NO

X

(35) If EPCRA, Please Sign Here

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

REACTIVITY DATA

STABILITY Inert	UNSTABLE		CONDITIONS TO AVOID None
	STABLE	X	

INCOMPATIBILITY (Materials to avoid)
None

HAZARDOUS DECOMPOSITION PRODUCTS
None

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID None
	WILL NOT OCCUR	X	

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Avoid contact of skin with liquid nitrogen or its cold boil-off gas. Flush liquid nitrogen spill with water to disperse. Ventilate enclosed areas to prevent formation of oxygen-deficient atmospheres caused by the evaporation of liquid nitrogen or the release of gaseous nitrogen.

WASTE DISPOSAL METHOD

Allow liquid nitrogen to evaporate in a well ventilated outdoor location remote from work areas. Vent nitrogen gas slowly to a well ventilated outdoor location remote from work areas. Do not attempt to dispose of residual nitrogen in compressed gas cylinders. Return cylinders to Air Products with residual pressure, the cylinder valve tightly closed and valve caps in place.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)
Use self-contained breathing apparatus in oxygen-deficient atmospheres. Caution! Respirators will not function. Use may result in asphyxiation.

VENTILATION Natural or mechanical where gas is present.	LOCAL EXHAUST As necessary	SPECIAL As necessary
	MECHANICAL (General) As necessary	OTHER Vents should be situated to avoid higher than normal concentration of nitrogen in work areas.

PROTECTIVE GLOVES

(LIN) Loose-fitting gloves of impermeable materials such as leather. Leather work gloves are recommended when handling compressed gas cylinders.

EYE PROTECTION

(LIN) Chemical goggles or safety glasses. Safety glasses are recommended when handling high-pressure cylinders.

OTHER PROTECTIVE EQUIPMENT
None

SPECIAL PRECAUTIONS*

SPECIAL LABELING INFORMATION
Nitrogen shipments must be in accordance with Department of Transportation (DOT) regulations using DOT "NON-FLAMMABLE GAS" label. Consult DOT regulations for details on the shipping of hazardous materials.

SPECIAL HANDLING RECOMMENDATIONS

Prevent contact of liquid nitrogen or cold boil-off gas with exposed skin. Prevent entrapment of liquid in closed systems. Use only in well ventilated areas. Compressed gas cylinders contain nitrogen at extremely high pressure and should be handled with care. Use a pressure-reducing regulator and pressure relief devices when connecting to lower pressure piping systems. Secure cylinders when in use. Never use direct flame to heat a compressed gas cylinder. Use a check valve to prevent back flow into storage container. Avoid dragging, rolling, or sliding cylinders, even for a short distance. Use a suitable hand truck. For additional handling recommendations on compressed gas cylinders, consult Compressed Gas Association Pamphlet P-1.

SPECIAL STORAGE RECOMMENDATIONS

It is recommended that liquid cylinders be stored outside and the gas or liquid piped to the use point. However, if liquid cylinders are to be stored or transported in an enclosed area, it is essential that the area be well ventilated. In case of poor natural ventilation, forced ventilation should be installed. Keep cylinders away from sources of heat. Storage should not be in heavy traffic areas to prevent accidental knocking over or damage from passing or falling objects. Valve caps should remain on cylinders not connected for use. Segregate full and empty cylinders. Storage areas should be free of combustible material. Replace the cylinder cap when the cylinder is not in use. Avoid exposure to areas where salt or other corrosive chemicals are present. See Compressed Gas Association Pamphlet P-1 for additional storage recommendations.

SPECIAL PACKAGING RECOMMENDATIONS

Gaseous nitrogen containers meet DOT specifications or American Society of Mechanical Engineers (ASME) codes. Liquid nitrogen is stored in vacuum-insulated containers meeting DOT specifications or ASME codes.

OTHER RECOMMENDATIONS OR PRECAUTIONS

Liquid nitrogen is a cryogenic liquid. Materials of construction must be selected for compatibility with extremely low temperatures. Avoid use of carbon steel and other materials which become brittle at low temperatures. Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipment of a compressed gas cylinder filled without the permission of the owner is a violation of Federal Law. If oxygen-deficient atmospheres are suspected or can occur, use oxygen monitoring equipment to test for oxygen deficient atmospheres.

*Various Government agencies (i.e., Department of Transportation, Occupational Safety and Health Administration, Food and Drug Administration and others) may have specific regulations concerning the transportation handling, storage or use of this product which will not be reflected in this data sheet. The customer should review these regulations to ensure that he is in full compliance.

Nitrogen Material Safety Data Sheet

Industrial Gas Division
Air Products and Chemicals, Inc.
Allentown, PA 18195
Tel. (215) 481-4911 • TWX 510-851-3686
Telecopy (215) 481-5900
CABLE-AIRPROD • TELEX 847418

AIR
PRODUCTS

EMERGENCY PHONE: 800—523-9374		IN PENNSYLVANIA: 800—322-9092	
ISSUE DATE	Issued: 13 April 1977	TRADE NAME AND SYNONYMS Nitrogen, or LIN (in cryogenic liquid state)	CHEMICAL NAME AND SYNONYMS Nitrogen
REVISIONS	Rev: 1 August 1988	FORMULA N ₂ MW: 28.01	CHEMICAL FAMILY Inert gas CAS#7727-37-9

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
Nitrogen is a simple asphyxiant and has no threshold limit value (TLV). Nitrogen is not listed as a carcinogen by NTP, IARC, or OSHA.

SYMPTOMS IF INGESTED, CONTACTED WITH SKIN, OR VAPOR INHALED
Nitrogen is odorless and nontoxic, but may produce suffocation by diluting the concentration of oxygen in air below levels necessary to support life. **PERSONNEL, INCLUDING RESCUE WORKERS, SHOULD NOT ENTER AREAS WHERE THE OXYGEN CONCENTRATION IS BELOW 19%, UNLESS PROVIDED WITH A SELF-CONTAINED BREATHING APPARATUS OR AIRLINE RESPIRATOR.** Exposure to oxygen-deficient atmospheres may produce dizziness, nausea, vomiting, loss of consciousness, and death. Death may result from errors in judgment, confusion, or loss of consciousness which prevents self-rescue. At low oxygen concentrations unconsciousness and death may occur in seconds without warning. Extensive tissue damage or burns can result from exposure to liquid nitrogen or cold nitrogen vapors.

TOXICOLOGICAL PROPERTIES
Nitrogen is a simple asphyxiant and constitutes 78% of the air we breathe. Nitrogen does not support life and may produce immediately hazardous atmospheres through the displacement of oxygen. Nitrogen under high pressure can produce narcosis even though oxygen sufficient for life is present.

RECOMMENDED FIRST AID TREATMENT
Persons suffering from lack of oxygen should be moved to areas with normal atmospheres. **SELF-CONTAINED BREATHING APPARATUS MAY BE REQUIRED TO PREVENT ASPHYXIATION OF RESCUE WORKERS.** Assisted respiration and supplemental oxygen should be given if the victim is not breathing. If cryogenic liquid or cold boil-off gas contacts a worker's skin or eyes, frozen tissues should be flooded or soaked with tepid water (105–115F; 41–46C). **DO NOT USE HOT WATER.** Cryogenic burns which result in blistering or deeper tissue freezing should be seen promptly by a physician.

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) N/A	AUTO IGNITION TEMP N/A	FLAMMABLE LIMITS N/A	LEL N/A	UEL N/A
EXTINGUISHING MEDIA N/A	ELECTRICAL CLASSIFICATION GROUP N/A			
SPECIAL FIRE FIGHTING PROCEDURES N/A				
UNUSUAL FIRE AND EXPLOSION HAZARDS N/A				

PHYSICAL DATA

BOILING POINT (°F.) @ 1 atm -320.5F (-195.8C)		FREEZING POINT (°F.) @ 1 atm -348.0F (-210.0C)	
VAPOR PRESSURE (psia) N/A		SOLUBILITY IN WATER @ 68F (20C), 1 atm 1.52% by volume	
VAPOR DENSITY (lb/cu ft) @ 70F (21.1C), 1 atm 0.07245	SPECIFIC GRAVITY (AIR = 1) @ 68F (20C), 1 atm 0.967	LIQUID DENSITY (lb/cu ft) @ boiling point, 1 atm 50.48	SPECIFIC GRAVITY (H ₂ O = 1) @ boiling point, 1 atm 0.808
APPEARANCE AND ODOR Both liquid and gaseous nitrogen are colorless and odorless.			



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: 10781 FORBES AVENUE Date: 6/4/09
Occupant or DBA: DRIESSEN AIRCRAFT INTERIOR SYSTEMS, INC. File No: 285
Owner/Manager: [REDACTED] Phone: [REDACTED]

☒ 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:

Responsible Party: [Signature] Re-inspection Date: 6/18/09

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 #: 0018

Condition Upon Re-inspection: _____ Date: _____

**CITY OF GARDEN GROVE FIRE DEPARTMENT**

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

FORM 1

Hazardous Materials Business Information Form

Page ___ of ___ 3

BUSINESS INFORMATION

FACILITY # (Supplied by GGFD)	3	0	0	3	5									BEGINNING DATE	1	ENDING DATE	2	
BUSINESS NAME	DRIESEN AIRCRAFT INTERIOR SYSTEMS, INC.														4	BUSINESS PHONE	5	714-265-2911
BUSINESS SITE ADDRESS	10781 FORBES AVENUE																	6
CITY	GARDEN GROVE											7	STATE	8	CA	9	ZIP	92843
DUN & BRADSTREET	15-395-3930										10	SIC CODE (4 DIGIT #)	11	4977	FIRE DISTRICT	12	2721	
COUNTY	ORANGE																	13
BUSINESS OPERATOR NAME	[REDACTED]												14	OPERATOR'S PHONE	15	714-265-6204		

BUSINESS OWNER

OWNER NAME	FACILITY MANAGER [REDACTED]												16	OWNER PHONE	17	714-265-6204		
OWNER MAILING ADDRESS	10781 FORBES AVENUE																	18
CITY	GARDEN GROVE											19	STATE	20	CA	21	ZIP	92843

ENVIRONMENTAL CONTACT

CONTACT NAME	NEALE ROMNEY												22	CONTACT PHONE	23	714-265-6262		
CONTACT MAILING ADDRESS	10781 FORBES AVENUE																	24
CITY	GARDEN GROVE											25	STATE	26	CA	27	ZIP	92843

PRIMARY**EMERGENCY CONTACTS****SECONDARY**

NAME	[REDACTED]												28	NAME	NEALE ROMNEY												33
TITLE	FACILITY MANAGER												29	TITLE	FACILITY Supt.												34
BUSINESS PHONE	714-265-6204												30	BUSINESS PHONE	714-265-6262												35
24-HR. PHONE	[REDACTED]												31	24-HR. PHONE	[REDACTED]												36
PAGER #	[REDACTED]												32	PAGER #	N/A												37

ADDITIONAL LOCALLY COLLECTED INFORMATION

DESCRIBE THE TYPE OF BUSINESS OPERATION:	MANUFACTURER OF AIRCRAFT INTERIORS												38	TOTAL # OF EMPLOYEES	39	380														
BILLING ADDRESS (IF DIFFERENT FROM ABOVE)																		40	ATTENTION	41										
PROPERTY OWNER NAME	PASKIN PROPERTIES												42	ADDRESS	8550 EL PASO GRANDE La Jolla, CA 92037												43	PHONE	44	858-456-6444
Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.																														
SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE														45	[Signature]				46	DATE	11/1/06									
NAME OF SIGNER (print)														47	[REDACTED]				48	NAME OF DOCUMENT PREPARER (print)				49	[REDACTED]					
TITLE OF SIGNER														48	FACILITY MANAGER				49	TITLE OF DOCUMENT PREPARER				50	FACILITY MANAGER					



**GARDEN GROVE FIRE DEPARTMENT
ENVIRONMENTAL PROTECTION SECTION**

11301 Acacia Parkway
Garden Grove, CA 92840
Business: 714 741-5600 Haz Mat: 714 741-5636

**Hazardous Materials Business Emergency Plan And
Inventory Certification Statement**

Business Name: DRISSEN AIRCRAFT INT.

Telephone: (714) 265-6204

Site Address: 10781 FORBES AVE.

Zip Code: 92843

The California Health & Safety Code, Division 20, Chapter 6.95, Section 25505(c) and Section 25503.3(c) provide the following:

A business that handles hazardous materials shall review AND certify their Hazardous Materials Business Emergency Plan (HMBEP) once every three years from the date of acceptance by the Garden Grove Fire Department. A business may comply with the annual chemical inventory reporting requirement by submitting a certification statement to the Garden Grove Fire Department. **A business may not utilize this certification to meet the annual inventory submission requirements of the Emergency Planning and Community Right to Know Act (Section 11022, Title 42, United States Code).**

Note: A business may comply with the annual inventory reporting requirements using this certification statement if both of the following apply:

1. The business has previously filed an inventory reporting form and;
2. The business attests to the following:
 - The information contained in the annual inventory form most recently submitted to the Garden Grove Fire Department is complete, accurate, and up to date.
 - There has been no change in the quantity of any hazardous material as reported in the most recently submitted annual inventory form.
 - No hazardous material subject to the inventory requirements is being handled that is not listed on the most recently submitted annual inventory form.

THIS IS TO CERTIFY THAT THE HMBEP AND/OR CHEMICAL INVENTORY HAS BEEN REVIEWED.
(Please check applicable boxes.)

- ☐ No changes are required to the HMBEP submitted to the Garden Grove Fire Department.
- ☒ All the necessary changes/revisions have been made to the HMBEP. The changes/revisions are attached to this certification.
- ☐ No changes are required to the chemical inventory that was previously on file with the Garden Grove Fire Department.
- ☒ All the necessary changes/revisions have been made to the chemical inventory. The changes/revisions are attached to this certification.

AS AN AUTHORIZED REPRESENTATIVE, I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND BELIEVE THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

Print Name [REDACTED]

Signature [REDACTED]

Job Title FACILITY MANAGER

Date 11/2/06

M. KORICH #3307



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

Date: 10-25-06
Address: 10781 FORBES AVE. File No: 285
Occupant or DBA: DRIESSEN AIR CRAFT INTERIOR
Owner/Manager: [REDACTED] Phone: (714) 265-6204

- ☐ 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):

Violations(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 (FORM 1)
☐ 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)]

Violations(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:

- UP DATE FORM 1 OF HAZ-MAT PACKET.

Responsible party: [Signature] Re-inspection date: 11-02-06

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

Fire Dept. Inspector: M. KORDICH ID#: 3307

Condition upon re-inspection: CLEARED Date: 11-02-06