



## CITY OF GARDEN GROVE OFFICE OF THE CITY CLERK

*Safeguard all official records of the City.  
Conduct municipal elections and oversee legislative administration.  
Provide reliable, accurate, and timely information to the  
City Council, staff, and the general public.*

**Steven R. Jones**  
Mayor

**John R. O'Neill**  
Mayor Pro Tem - District 2

**George S. Brietigam**  
Council Member - District 1

**Diedre Thu-Ha Nguyen**  
Council Member - District 3

**Patrick Phat Bui**  
Council Member - District 4

**Stephanie Klopfenstein**  
Council Member - District 5

**Kim B. Nguyen**  
Council Member - District 6

October 12, 2021

Requester: SHANNON CASTAGNO  
Company: Environmental Support Services

Re: 12691 Monarch Dr.

Dear Ms. Castagno,

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

The City of Garden Grove Fire Department has utilized its best efforts to locate the records requested. The City does not provide records on spills, leaks and clean-up, as that information is provided through the County of Orange Health Department.

Sincerely,

Amanda Pollock  
City of Garden Grove  
City Clerk's Office



# 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: 12691 MONTECH ST  
 Occupant or DBA: EL COM SOLUTIONS  
 Owner/Manager: RENE HANEK

Date: 2/19/09  
 File No: 6350  
 Phone: 714 230 6138

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:  
• GAS CYLINDERS ACETYLENE / ARGON  
• POLYMERIC ISOCYANATE  
• POLYURETHANE FOAM RESIN

Responsible Party: [Signature] Re-inspection Date: 03/5/09 BEFORE 1000

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: \_\_\_\_\_



**FIRE SAFETY SURVEY  
GARDEN GROVE FIRE DEPARTMENT**

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

File # 6350  
Fire District 2414  
Inspector E5 Shift A  
Next Insp 3 / 2008

Occupant or DBA ~~WHEEL CARE SCOOTERS~~ EL COM SYSTEM SOLUTIONS Business Phone 714 230-6138  
 Address 12691 MONARCH St Suite \_\_\_\_\_ Zip 92841  
 Property Owner PALA LLC Phone 714 230-6122  
 Emergency Contact RENE HAYEK Phone 714 231-7291

Group \_\_\_\_\_ Load \_\_\_\_\_ Sprinklers F/P/N \_\_\_\_\_ F \_\_\_\_\_ 5 yr. Cert. 11/06/2003 Haz Mat

**Fire Permits**

70 C.P. / 374 220 Acetylene Helium or propane above 3x55's  
11/2009  
2 front / BACK RISERS

**An inspection  
SIGNS**

- Provide address
- Provide hazard

**EXITS**

- Provide approach
- Remove locks
- Remove exit cover
- Remove exit door
- Provide illumination
- Provide and maintain

**ACCESS**

- Provide outside key
- Provide access

**FIRE**

- Fire extinguishers
- Fire extinguishers
- Fire extinguishers
- Fire extinguishers

- Service auto-extinguishing system
- 5 yr certification on sprinkler/standp

**ADDITIONAL VIOLATIONS AND**

INSPECTION HOURS  
 EL COM SYSTEM S  
 COMPANY THEY ARE

Business representative signature \_\_\_\_\_  
 Inspector ID # \_\_\_\_\_

Cleared 12/29/08  Mailback card due \_\_\_/\_\_\_/\_\_\_  Re-inspection date \_\_\_/\_\_\_/\_\_\_  Final Notice \_\_\_/\_\_\_/\_\_\_

NEED TO BE  
 IN DISCLOSURE  
 2/5/09

**the following violation(s)**

**ASSEMBLY OCCUPANCIES**

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

**ELECTRICAL SAFETY PRE-CAUTION!**

- Discontinue use of extension cords (CFC 605.6)
- Keep 30" clear for access in front of electrical panel (CFC 605.3)
- Provide/replace electrical cover socket power strip (CFC 605.1)

**HAZ-MAT SAFETY PRE-CAUTIONS**

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

**HAZARDOUS**

- Storage 18" below sprinklers or 2' from ceiling
- Compressed gas cylinders (CFC 3003.5.3)
- Business License Fire Department Permit

**VIOLATIONS**

WELCOM & KING INSTRUMENT  
 ADDRESS OF 12700 PALA DR.

Date \_\_\_\_\_  
 Date \_\_\_\_\_

EL COM SYSTEMS  
 12691 MONARCH  
 NEEDS PACKET  
 Be there 10:00 am  
 Before

# GARDEN GROVE



## FIRE DEPARTMENT

### HAZARDOUS MATERIALS DISCLOSURE PROGRAM

#### REPORTING FORMS PACKET

**SHORT VERSION**

FOR OFFICIAL USE ONLY	
FACILITY ID NO.	<u>6350</u>
BUSINESS NAME	<u>EL-COM</u>
BUSINESS ADDRESS	<u>12691 MONARCH</u>
APPROVED BY	<u>R. MACAS</u> DATE <u>3/4/09</u>
NEW BUSINESS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO UPDATE _____
PICK	<input type="checkbox"/> 4D <input type="checkbox"/> BUSLIST <input type="checkbox"/> CALARP: <input type="checkbox"/> CUPA: <input type="checkbox"/> GIS <input type="checkbox"/>
FEE	_____



CITY OF GARDEN GROVE FIRE DEPARTMENT

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

FORM 1

Hazardous Materials Business Information Form

BUSINESS INFORMATION

FACILITY # (Supplied by GGFD)	3 0 0 3 5	BEGINNING DATE	1	ENDING DATE	2
BUSINESS NAME	EL-COM CABLETEK			BUSINESS PHONE	5
BUSINESS SITE ADDRESS	12691 MONARCH ST				
CITY	GARDEN GROVE	STATE	CA	ZIP	92841
DUN & BRADSTREET	047449038	SIC CODE (4 DIGIT #)		FIRE DISTRICT	
COUNTY	ORANGE				
BUSINESS OPERATOR NAME	EL-COM CABLETEK			OPERATOR'S PHONE	714 230 6100

BUSINESS OWNER

OWNER NAME	EL-ROB			OWNER PHONE	714 230-6100
OWNER MAILING ADDRESS	12691 MONARCH ST				
CITY	GARDEN GROVE	STATE	CA	ZIP	92841

ENVIRONMENTAL CONTACT

CONTACT NAME	RENE HAYEK			CONTACT PHONE	714-231-7291
CONTACT MAILING ADDRESS	12691 MONARCH ST				
CITY	GARDEN GROVE	STATE	CA	ZIP	92841

PRIMARY

EMERGENCY CONTACTS

SECONDARY

NAME	RENE HAYEK	NAME	DOUG LEVERENZ
TITLE	Facilities MGR	TITLE	CONTROLLER
BUSINESS PHONE	714-230-6131	BUSINESS PHONE	714-230-6109
24-HR. PHONE	[REDACTED]	24-HR. PHONE	[REDACTED]
PAGER #	N/A	PAGER #	N/A

ADDITIONAL LOCALLY COLLECTED INFORMATION

DESCRIBE THE TYPE OF BUSINESS OPERATION:	MACHINE SHOP / CABLE ASSEMBLY	TOTAL # OF EMPLOYEES	
BILLING ADDRESS (IF DIFFERENT FROM ABOVE)	12691 MONARCH ST. G.G. 92841	ATTENTION	ACCOUNTING
PROPERTY OWNER NAME	PALA ENTERPRISE	ADDRESS	12691 MONARCH GG
		PHONE	714 230-6100

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	[Signature]	DATE	3-2-09
NAME OF SIGNER (print)	RENE HAYEK	NAME OF DOCUMENT PREPARER (print)	RENE HAYEK
TITLE OF SIGNER	Facility MANAGER	TITLE OF DOCUMENT PREPARER	FACILITY MANAGER



# HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD

DELETE

REVISED 1

Page \_\_\_\_\_ of \_\_\_\_\_ 2

FACILITY ID#	3 0 0 3 5	38 BUSINESS NAME	EL-COM CABLETEK	3
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## I. FACILITY INFORMATION

CHEMICAL LOCATION				4
SW OF BUILDING OUTSIDE IN THE STREET INSIDE THE BUILDING MACHINE SHOP				
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5 MAP #	6 GRID #	7
			8A 5A	

## II. CHEMICAL INFORMATION

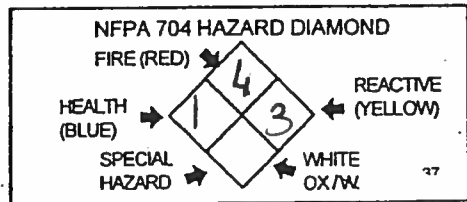
CHEMICAL NAME	ACETYLENE	WASTE <input type="checkbox"/> Yes	8	TRADE SECRET <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11																
COMMON NAME				9	An EHS Chemical <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12															
CAS #				10	FIRE CODE HAZARD CLASSES (supplied by GGFD)	13															
74-86-2																					
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															
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	18															
					<input checked="" type="checkbox"/> a. FIRE	<input type="checkbox"/> b. REACTIVE	<input type="checkbox"/> c. PRESSURE RELEASE	18													
					<input type="checkbox"/> d. ACUTE HEALTH	<input type="checkbox"/> e. CHRONIC HEALTH															
AVERAGE DAILY AMOUNT	20 cuft	19	MAXIMUM DAILY AMOUNT	22 cuft	20	ANNUAL WASTE AMOUNT	21	STATE WASTE CODE	22												
UNITS	<input type="checkbox"/> a. GALLONS	<input checked="" type="checkbox"/> b. CUBIC FEET	23	DAYS ON SITE	24	LARGEST CONTAINER	25														
						141 cuft															
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 checked="" type="checkbox"/> a. AMBIENT	<input type="checkbox"/> b. ABOVE AMBIENT	<input type="checkbox"/> c. BELOW AMBIENT	27																	
STORAGE TEMPERATURE	<input checked="" type="checkbox"/> a. AMBIENT	<input type="checkbox"/> b. ABOVE AMBIENT	<input type="checkbox"/> c. BELOW AMBIENT	<input type="checkbox"/> d. CRYOGENIC	28																

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

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

## PLACARDING INFORMATION

UNDOT #	UN 1001	33
Refer to shipping papers or MSDS		
DOT HAZARD CLASS	4.9 CFR 172.101	34
Refer to shipping papers or MSDS		
EPCRA	<input type="checkbox"/> YES <input type="checkbox"/> NO	35
X		36
If EPCRA, Please Sign Here		



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED



## MATERIAL SAFETY DATA SHEET

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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**POLAR CRYOGENICS**

2734 SE Raymond

Portland, OR 97202

Information: 1-800-426-0689

**Emergency Contact:**

**CHEMTREC 1-800-424-9300**

**Calls Originating Outside the US:**

**703-527-3887 (Collect Calls Accepted)**

**SUBSTANCE: ACETYLENE**

**TRADE NAMES/SYNONYMS:**

MTG MSDS 1; ACETYLENE; ETHYNE; WELDING GAS; ACETYLEN; ETHINE; NARCYLEN;  
VINYLENE; UN 1001; C2H2; 00232566; RTECS AO9600000

**CHEMICAL FAMILY:** hydrocarbons, aliphatic

**CREATION DATE:** May 22 2007

**REVISION DATE:** Dec 11 2008

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### 2. COMPOSITION, INFORMATION ON INGREDIENTS

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**COMPONENT:** ACETYLENE

**CAS NUMBER:** 74-86-2

**PERCENTAGE:** 100

---

### 3. HAZARDS IDENTIFICATION

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**NFPA RATINGS (SCALE 0-4):** HEALTH=1 FIRE=4 REACTIVITY=3



**EMERGENCY OVERVIEW:**

**COLOR:** colorless

**PHYSICAL FORM:** gas

**ODOR:** sweet odor

**MAJOR HEALTH HAZARDS:** central nervous system depression, difficulty breathing

**PHYSICAL HAZARDS:** May explode when heated. Flammable gas. May cause flash fire. Electrostatic charges may be generated by flow, agitation, etc. May polymerize. Containers may rupture or explode.

**POTENTIAL HEALTH EFFECTS:**

**INHALATION:**

**SHORT TERM EXPOSURE:** nausea, vomiting, chest pain, wheezing, headache, drowsiness, dizziness,



loss of coordination, bluish skin color, suffocation, lung congestion, coma

**LONG TERM EXPOSURE:** no information on significant adverse effects

**SKIN CONTACT:**

**SHORT TERM EXPOSURE:** rash

**LONG TERM EXPOSURE:** no information is available

**EYE CONTACT:**

**SHORT TERM EXPOSURE:** no information on significant adverse effects

**LONG TERM EXPOSURE:** no information is available

**INGESTION:**

**SHORT TERM EXPOSURE:** ingestion of a gas is unlikely

**LONG TERM EXPOSURE:** ingestion of a gas is unlikely

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#### 4. FIRST AID MEASURES

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**INHALATION:** If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

**SKIN CONTACT:** Wash exposed skin with soap and water.

**EYE CONTACT:** Flush eyes with plenty of water.

**INGESTION:** If a large amount is swallowed, get medical attention.

**NOTE TO PHYSICIAN:** For inhalation, consider oxygen.

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#### 5. FIRE FIGHTING MEASURES

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**FIRE AND EXPLOSION HAZARDS:** Severe explosion hazard. Vapor/air mixtures are explosive. Electrostatic discharges may be generated by flow or agitation resulting in ignition or explosion.

**EXTINGUISHING MEDIA:** carbon dioxide, regular dry chemical

Large fires: Use regular foam or flood with fine water spray.

**FIRE FIGHTING:** Move container from fire area if it can be done without risk. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck: Stop leak if possible without personal risk. Let burn unless leak can be stopped immediately. For smaller tanks or cylinders, extinguish and isolate from other flammables. Evacuation radius: 800 meters (1/2 mile). Do not attempt to extinguish fire unless flow of material can be stopped first. Flood with fine water spray. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Avoid





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inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Evacuate if fire gets out of control or containers are directly exposed to fire. Evacuation radius: 500 meters (1/3 mile). Consider downwind evacuation if material is leaking. Stop flow of gas.

**LOWER FLAMMABLE LIMIT: 2.5%**

**UPPER FLAMMABLE LIMIT: 100%**

**AUTOIGNITION: 581 F (305 C)**

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## 6. ACCIDENTAL RELEASE MEASURES

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### **OCCUPATIONAL RELEASE:**

Avoid heat, flames, sparks and other sources of ignition. Stop leak if possible without personal risk. Reduce vapors with water spray. Keep unnecessary people away, isolate hazard area and deny entry. Remove sources of ignition. Ventilate closed spaces before entering.

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## 7. HANDLING AND STORAGE

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**STORAGE:** Store and handle in accordance with all current regulations and standards. Protect from physical damage. Store outside or in a detached building. Keep separated from incompatible substances. Store in a cool, dry place. Store in a well-ventilated area. Avoid heat, flames, sparks and other sources of ignition. Grounding and bonding required. Secure to prevent tipping. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. Keep separated from incompatible substances.

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## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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### **EXPOSURE LIMITS:**

#### **ACETYLENE:**

ACGIH (simple asphyxiant)

2500 ppm (2662 mg/m<sup>3</sup>) NIOSH recommended ceiling

**VENTILATION:** Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**EYE PROTECTION:** Eye protection not required, but recommended.

**CLOTHING:** Protective clothing is not required.

**GLOVES:** Protective gloves are not required, but recommended.

**RESPIRATOR:** Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.



**For Unknown Concentrations or Immediately Dangerous to Life or Health -**

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**PHYSICAL STATE:** gas

**COLOR:** colorless

**ODOR:** sweet odor

**MOLECULAR WEIGHT:** 26.04

**MOLECULAR FORMULA:** H-C-C-H

**BOILING POINT:** Not available

**FREEZING POINT:** Not available

**SUBLIMATION POINT:** -119 F (-84 C)

**VAPOR PRESSURE:** 760 mmHg @ -84 C

**VAPOR DENSITY (air=1):** 0.90

**SPECIFIC GRAVITY:** Not applicable

**DENSITY:** 1.1747 g/L @ 0 C

**WATER SOLUBILITY:** 0.94% @ 25 C

**PH:** Not applicable

**VOLATILITY:** Not applicable

**ODOR THRESHOLD:** Not available

**EVAPORATION RATE:** Not applicable

**VISCOSITY:** 0.010 cP @ 20 C

**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not applicable

**SOLVENT SOLUBILITY:**

**Soluble:** acetone, benzene, chloroform, ether

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## 10. STABILITY AND REACTIVITY

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**REACTIVITY:** May decompose violently on heating. May explode when heated.

**CONDITIONS TO AVOID:** Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat.

**INCOMPATIBILITIES:** metals, halogens, oxidizing materials, metal carbide, reducing agents, halo carbons

**HAZARDOUS DECOMPOSITION:**

Thermal decomposition products: oxides of carbon



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**POLYMERIZATION:** Polymerizes with evolution of heat. Avoid contact with curing agents, accelerators, and/or initiators.

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## 11. TOXICOLOGICAL INFORMATION

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**ACETYLENE:**

**TARGET ORGANS:** central nervous system

**ADDITIONAL DATA:** Stimulants such as epinephrine may induce ventricular fibrillation.

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## 12. ECOLOGICAL INFORMATION

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**FATE AND TRANSPORT:**

**KOW:** 2691.53 (log = 3.44) (estimated from water solubility)

**KOC:** 4508.17 (log = 3.66) (estimated from water solubility)

**HENRY'S LAW CONSTANT:** 2.8 E -3 atm-m<sup>3</sup>/mol

**BIOCONCENTRATION:** 3.48 (estimated from water solubility)

**AQUATIC PROCESSES:** 1.3269231 hours (River Model: 1 m deep, 1 m/s flow, 3 m/s wind)

**ENVIRONMENTAL SUMMARY:** Relatively non-persistent in the environment. Not expected to leach through the soil or the sediment. Accumulates very little in the bodies of living organisms. Highly volatile from water.

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## 13. DISPOSAL CONSIDERATIONS

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Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001. D003.

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## 14. TRANSPORT INFORMATION

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**U.S. DOT 49 CFR 172.101:**

**PROPER SHIPPING NAME:** Acetylene, dissolved

**ID NUMBER:** UN1001

**HAZARD CLASS OR DIVISION:** 2.1

**LABELING REQUIREMENTS:** 2.1

**QUANTITY LIMITATIONS:**

**PASSENGER AIRCRAFT OR RAILCAR:** Forbidden

**CARGO AIRCRAFT ONLY:** 15 kg





**CANADIAN TRANSPORTATION OF DANGEROUS GOODS:**

**SHIPPING NAME:** Acetylene, dissolved

**UN NUMBER:** UN1001

**CLASS:** 2.1

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**15. REGULATORY INFORMATION**

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**U.S. REGULATIONS:**

**CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):** Not regulated.

**SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart B):** Not regulated.

**SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart C):** Not regulated.

**SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370 Subparts B and C):**

ACUTE: Yes

CHRONIC: No

FIRE: Yes

REACTIVE: Yes

SUDDEN RELEASE: Yes

**SARA TITLE III SECTION 313 (40 CFR 372.65):** Not regulated.

**OSHA PROCESS SAFETY (29 CFR 1910.119):** Not regulated.

**STATE REGULATIONS:**

**California Proposition 65:** Not regulated.

**CANADIAN REGULATIONS:**

**WHMIS CLASSIFICATION:** ABF

**NATIONAL INVENTORY STATUS:**

**U.S. INVENTORY (TSCA):** Listed on inventory.

**TSCA 12(b) EXPORT NOTIFICATION:** Not listed.

**CANADA INVENTORY (DSL/NDSL):** Not determined.

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**16. OTHER INFORMATION**

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**MSDS SUMMARY OF CHANGES**  
**15. REGULATORY INFORMATION**

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# HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD

DELETE

REVISED 1

Page \_\_\_\_\_ of \_\_\_\_\_ 2

FACILITY ID#	3 0 0 3 5	38	BUSINESS NAME	EL-COM CABLETEK	3
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## I. FACILITY INFORMATION

CHEMICAL LOCATION	S.W. OF BUILDING OUTSIDE IN THE SKED					4		
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	5	MAP #	6	GRID #	8A	7

## II. CHEMICAL INFORMATION

CHEMICAL NAME	ACETONE		WASTE	<input type="checkbox"/> Yes	8	TRADE SECRET	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	11												
COMMON NAME	ACETONE		* If EPCRA see instructions		9	An EHS Chemical	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	12												
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	4.02	19	MAXIMUM DAILY AMOUNT	6.02	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	25	55 GAL										
STORAGE CONTAINER (Check all that apply)	<input type="checkbox"/> a. ABOVEGROUND TANK	<input type="checkbox"/> b. UNDERGROUND TANK	<input type="checkbox"/> c. TANK INSIDE BLDG	<input checked="" type="checkbox"/> d. STEEL DRUM	<input type="checkbox"/> e. PLASTIC DRUM	<input type="checkbox"/> f. NONMETALLIC DRUM	<input type="checkbox"/> g. METAL CONTAINER	<input type="checkbox"/> h. CARBOY	<input type="checkbox"/> i. VAT	<input type="checkbox"/> j. FIBER DRUM	<input type="checkbox"/> k. BAG(S)	<input type="checkbox"/> l. BOX(S)	<input type="checkbox"/> m. CYLINDER	<input type="checkbox"/> n. GLASS CONTAINER	<input type="checkbox"/> o. PLASTIC CONTAINER	<input type="checkbox"/> p. IN MACH OR EQUIP	<input type="checkbox"/> q. TANK WAGON	<input type="checkbox"/> r. RAIL CAR	<input type="checkbox"/> s. TOTE BIN	<input type="checkbox"/> t. OTHER	26
STORAGE PRESSURE	<input checked="" type="checkbox"/> a. AMBIENT	<input type="checkbox"/> b. ABOVE AMBIENT	<input type="checkbox"/> c. BELOW AMBIENT	27																	
STORAGE TEMPERATURE	<input checked="" type="checkbox"/> a. AMBIENT	<input type="checkbox"/> b. ABOVE AMBIENT	<input type="checkbox"/> c. BELOW AMBIENT	<input type="checkbox"/> d. CRYOGENIC	28																

%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	
DOT HAZARD CLASS	4.9 CFR 172.101	34	
EPCRA	<input type="checkbox"/> YES <input type="checkbox"/> NO	35	
X		36	<p>MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED</p>



## MATERIAL SAFETY DATA SHEET

---

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

---

**MATHESON TRI-GAS, INC.**  
**150 Allen Road Suite 302**  
**Basking Ridge, New Jersey 07920**  
**Information: 1-800-416-2505**

**Emergency Contact:**  
**CHEMTREC 1-800-424-9300**  
**Calls Originating Outside the US:**  
**703-527-3887 (Collect Calls Accepted)**

#### **SUBSTANCE: ACETONE**

#### **TRADE NAMES/SYNONYMS:**

MTG MSDS 105; DIMETHYLFORMALDEHYDE; DIMETHYLKETAL; DIMETHYL KETONE; BETA-KETOPROPANE; PROPANONE; 2-PROPANONE; PYROACETIC ETHER; B-KETOPROPANE; A-18; A-18-S; A-18-SK; A-11; A-11-S; A-16-P; A-16-S; A-949; A-40; A-20; A-19; A-946; RCRA U002; UN 1090; C3H6O; MAT00140; RTECS AL3150000

**CHEMICAL FAMILY:** ketones, aliphatic

**CREATION DATE:** Jan 24 1989

**REVISION DATE:** Dec 11 2008

---

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

---

**COMPONENT:** ACETONE  
**CAS NUMBER:** 67-64-1  
**PERCENTAGE:** 100

---

### 3. HAZARDS IDENTIFICATION

---

**NFPA RATINGS (SCALE 0-4):** HEALTH=2 FIRE=3 REACTIVITY=0



#### **EMERGENCY OVERVIEW:**

**COLOR:** colorless

**PHYSICAL FORM:** liquid

**ODOR:** sweet odor, minty odor, pungent odor, pleasant odor

**MAJOR HEALTH HAZARDS:** respiratory tract irritation, skin irritation, eye irritation, central nervous system depression

**PHYSICAL HAZARDS:** Flammable liquid and vapor. Vapor may cause flash fire.

#### **POTENTIAL HEALTH EFFECTS:**



**INHALATION:**

**SHORT TERM EXPOSURE:** irritation, low body temperature, nausea, stomach pain, difficulty breathing, headache, drowsiness, symptoms of drunkenness, kidney damage, liver damage, coma

**LONG TERM EXPOSURE:** same as effects reported in short term exposure

**SKIN CONTACT:**

**SHORT TERM EXPOSURE:** irritation

**LONG TERM EXPOSURE:** tingling sensation

**EYE CONTACT:**

**SHORT TERM EXPOSURE:** irritation

**LONG TERM EXPOSURE:** same as effects reported in short term exposure

**INGESTION:**

**SHORT TERM EXPOSURE:** nausea, diarrhea, symptoms of drunkenness, kidney damage, liver damage, coma

**LONG TERM EXPOSURE:** no information on significant adverse effects

---

#### 4. FIRST AID MEASURES

---

**INHALATION:** It is unlikely that emergency treatment will be required.

**SKIN CONTACT:** Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

**EYE CONTACT:** Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

**INGESTION:** Contact local poison control center or physician immediately. Never make an unconscious person vomit or drink fluids. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.

**NOTE TO PHYSICIAN:** For ingestion, consider gastric lavage and activated charcoal slurry.

---

#### 5. FIRE FIGHTING MEASURES

---

**FIRE AND EXPLOSION HAZARDS:** Severe fire hazard. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Vapor/air mixtures are explosive.

**EXTINGUISHING MEDIA:** alcohol-resistant foam, carbon dioxide, regular dry chemical, water, alcohol-resistant foam

Large fires: Use alcohol-resistant foam or flood with fine water spray.

**FIRE FIGHTING:** Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool





containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck: Evacuation radius: 800 meters (1/2 mile). Water may be ineffective.

**FLASH POINT:** -4 F (-20 C) (CC)  
**LOWER FLAMMABLE LIMIT:** 2.5%  
**UPPER FLAMMABLE LIMIT:** 13%  
**AUTOIGNITION:** 869 F (465 C)  
**FLAMMABILITY CLASS (OSHA):** IB

---

## 6. ACCIDENTAL RELEASE MEASURES

---

### **OCCUPATIONAL RELEASE:**

Avoid heat, flames, sparks and other sources of ignition. Remove sources of ignition. Stop leak if possible without personal risk. Reduce vapors with water spray. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).

---

## 7. HANDLING AND STORAGE

---

**STORAGE:** Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.106. Grounding and bonding required. Keep separated from incompatible substances.

---

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

---

### **EXPOSURE LIMITS:**

#### **ACETONE:**

1000 ppm (2400 mg/m<sup>3</sup>) OSHA TWA  
750 ppm (1780 mg/m<sup>3</sup>) OSHA TWA (vacated by 58 FR 35338, June 30, 1993)  
1000 ppm (2375 mg/m<sup>3</sup>) OSHA STEL (vacated by 58 FR 35338, June 30, 1993)  
500 ppm ACGIH TWA  
750 ppm ACGIH STEL  
250 ppm (590 mg/m<sup>3</sup>) NIOSH recommended TWA 10 hour(s)

**VENTILATION:** Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.



**EYE PROTECTION:** Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**CLOTHING:** Wear appropriate chemical resistant clothing.

**GLOVES:** Wear appropriate chemical resistant gloves.

**RESPIRATOR:** The following respirators and maximum use concentrations are drawn from NIOSH and/or OSHA.

**2500 ppm**

Any air-purifying half-mask respirator equipped with organic vapor cartridge(s).

Any powered, air-purifying respirator with organic vapor cartridge(s).

Any air-purifying full-facepiece respirator (gas mask) with a chin-style, front-mounted or back-mounted organic vapor canister.

Any supplied-air respirator.

Any self-contained breathing apparatus with a full facepiece.

Emergency or planned entry into unknown concentrations or IDLH conditions -

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

**Escape -**

Any air-purifying full-facepiece respirator (gas mask) with a chin-style, front-mounted or back-mounted organic vapor canister.

Any appropriate escape-type, self-contained breathing apparatus.

**For Unknown Concentrations or Immediately Dangerous to Life or Health -**

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**PHYSICAL STATE:** liquid

**APPEARANCE:** clear

**COLOR:** colorless

**ODOR:** sweet odor, minty odor, pungent odor, pleasant odor

**TASTE:** sweet taste

**MOLECULAR WEIGHT:** 58.08

**MOLECULAR FORMULA:** C-H3-C-O-C-H3

**BOILING POINT:** 133 F (56 C)

**FREEZING POINT:** -139 F (-95 C)

**VAPOR PRESSURE:** 180 mmHg @ 20 C



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**VAPOR DENSITY (air=1):** 2.0

**SPECIFIC GRAVITY (water=1):** 0.7899

**WATER SOLUBILITY:** soluble

**PH:** neutral in solution

**VOLATILITY:** 100%

**ODOR THRESHOLD:** 20 ppm

**EVAPORATION RATE:** 14.4 (butyl acetate=1)

**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not available

**SOLVENT SOLUBILITY:**

**Soluble:** ethanol, ether, chloroform, benzene, oils, dimethylformamide

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## 10. STABILITY AND REACTIVITY

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**REACTIVITY:** Stable at normal temperatures and pressure.

**CONDITIONS TO AVOID:** Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat.

**INCOMPATIBILITIES:** acids, amines, halogens, halo carbons, oxidizing materials, metal salts, peroxides, combustible materials, bases

**HAZARDOUS DECOMPOSITION:**

Thermal decomposition products: oxides of carbon

**POLYMERIZATION:** Will not polymerize.

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## 11. TOXICOLOGICAL INFORMATION

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**ACETONE:**

**IRRITATION DATA:** 500 ppm eyes-human; 395 mg open skin-rabbit mild; 500 mg/24 hour(s) skin-rabbit mild; 20 mg/24 hour(s) eyes-rabbit moderate; 10 ul eyes-rabbit mild; 186300 ppm eyes-human mild; 20 mg eyes-rabbit severe

**TOXICITY DATA:** 50100 mg/m<sup>3</sup> inhalation-rat LC<sub>50</sub>; >9400 ul/kg skin-guinea pig LD<sub>50</sub>; 5800 mg/kg oral-rat LD<sub>50</sub>

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

**LOCAL EFFECTS:**

Irritant: inhalation, skin, eye

**ACUTE TOXICITY LEVEL:**

Moderately Toxic: inhalation

Slightly Toxic: ingestion

**TARGET ORGANS:** central nervous system

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** respiratory disorders, skin disorders and allergies

**MUTAGENIC DATA:** Available.



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**REPRODUCTIVE EFFECTS DATA:** Available.

**ADDITIONAL DATA:** Alcohol may enhance the toxic effects.

---

## 12. ECOLOGICAL INFORMATION

---

**ECOTOXICITY DATA:**

**FISH TOXICITY:** 4 ug/L 96 hour(s) LC50 (Mortality) Harlequinfish, red rasbora (Rasbora heteromorpha)

**INVERTEBRATE TOXICITY:** 35 ug/L 48 hour(s) EC50 (Immobilization) Water flea (Daphnia pulex)

**ALGAL TOXICITY:** <14 ug/L 11-14 hour(s) MATC (Growth) Red algae (Champia parvula)

**OTHER TOXICITY:** 0.21 ug/L 96 week(s) LC50 (Mortality) Frog (Rana hexadactyla)

**FATE AND TRANSPORT:**

**BIOCONCENTRATION:** 100000 ug/L 32 hour(s) BCF (Residue) Fathead minnow (Pimephales promelas)  
4.3 ug/L

**ENVIRONMENTAL SUMMARY:** Highly toxic to aquatic life.

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## 13. DISPOSAL CONSIDERATIONS

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Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): U002. Dispose in accordance with all applicable regulations.

---

## 14. TRANSPORT INFORMATION

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**U.S. DOT 49 CFR 172.101:**

**PROPER SHIPPING NAME:** Acetone

**ID NUMBER:** UN1090

**HAZARD CLASS OR DIVISION:** 3

**PACKING GROUP:** II

**LABELING REQUIREMENTS:** 3



**CANADIAN TRANSPORTATION OF DANGEROUS GOODS:**

**SHIPPING NAME:** Acetone

**UN NUMBER:** UN1090

**CLASS:** 3

**PACKING GROUP/CATEGORY:** II

---

## 15. REGULATORY INFORMATION

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**U.S. REGULATIONS:**

**CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):**

**ACETONE: 5000 LBS RQ**

**SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart B):** Not regulated.

**SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart C):** Not regulated.

**SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370 Subparts B and C):**

ACUTE: Yes

CHRONIC: No

FIRE: Yes

REACTIVE: No

SUDDEN RELEASE: No

**SARA TITLE III SECTION 313 (40 CFR 372.65):** Not regulated.

**OSHA PROCESS SAFETY (29 CFR 1910.119):** Not regulated.

**STATE REGULATIONS:**

**California Proposition 65:** Not regulated.

**CANADIAN REGULATIONS:**

**WHMIS CLASSIFICATION:** BD2

**NATIONAL INVENTORY STATUS:**

**U.S. INVENTORY (TSCA):** Listed on inventory.

**TSCA 12(b) EXPORT NOTIFICATION:** Not listed.

**CANADA INVENTORY (DSL/NDSL):** Not determined.

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16. OTHER INFORMATION

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**MSDS SUMMARY OF CHANGES**

5. FIRE FIGHTING MEASURES

15. REGULATORY INFORMATION

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# HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD

DELETE

REVISED 1

Page \_\_\_\_\_ of \_\_\_\_\_ 2

FACILITY ID#	3 0 0 3 5	38 BUSINESS NAME	EL-COM CABLETEK
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## I. FACILITY INFORMATION

CHEMICAL LOCATION	SW OF BUILDING SKEDDORSIDE / INSIDE THE BUILDING MACHINE SHOP		
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5 MAP #	6 GRID 8A / 5A

## II. CHEMICAL INFORMATION

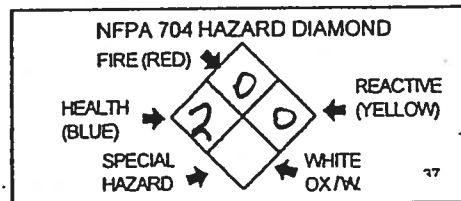
CHEMICAL NAME	OXYGEN	WASTE <input type="checkbox"/> Yes	TRADE SECRET <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
COMMON NAME	OXYGEN	* If EPCRA see instructions	
CAS #	7782-44-7	10 FIRE CODE HAZARD CLASSES (supplied by GGFD)	
TYPE (Check one item only)	<input checked="" type="checkbox"/> 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
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 type="checkbox"/> c. PRESSURE RELEASE
AVERAGE DAILY AMOUNT	15 CUFT	19 MAXIMUM DAILY AMOUNT	20 25 CUFT
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	24 365
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 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
STORAGE PRESSURE	<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT	27	
STORAGE TEMPERATURE	<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC	28	

%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
DOT HAZARD CLASS	42 CFR 172.101	34
EPCRA	<input type="checkbox"/> YES <input type="checkbox"/> NO	35
X	Refer to shipping papers or MSDS	36



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED



## MATERIAL SAFETY DATA SHEET

---

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

---

**MATHESON TRI-GAS, INC.**  
**150 Allen Road Suite 302**  
**Basking Ridge, New Jersey 07920**  
**Information: 1-800-416-2505**

**Emergency Contact:**  
**CHEMTREC 1-800-424-9300**  
**Calls Originating Outside the US:**  
**703-527-3887 (Collect Calls Accepted)**

### SUBSTANCE: OXYGEN, COMPRESSED GAS

#### TRADE NAMES/SYNONYMS:

MTG MSDS 71; OXYGEN; DIOXYGEN; MOLECULAR OXYGEN; OXYGEN MOLECULE; PURE OXYGEN; UN 1072; LOX; HYPEROXIA; O<sub>2</sub>; MAT12831; RTECS RS2060000

**CHEMICAL FAMILY:** inorganic, gas

**CREATION DATE:** Jan 24 1989  
**REVISION DATE:** Dec 11 2008

---

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

---

**COMPONENT:** OXYGEN, COMPRESSED GAS  
**CAS NUMBER:** 7782-44-7  
**PERCENTAGE:** 100

---

### 3. HAZARDS IDENTIFICATION

---

**NFPA RATINGS (SCALE 0-4):** HEALTH=2 FIRE=0 REACTIVITY=0

#### EMERGENCY OVERVIEW:

**COLOR:** colorless

**PHYSICAL FORM:** gas

**ODOR:** odorless

**MAJOR HEALTH HAZARDS:** No significant target effects reported.

**PHYSICAL HAZARDS:** Containers may rupture or explode if exposed to heat. May ignite combustibles.

#### POTENTIAL HEALTH EFFECTS:

##### INHALATION:

**SHORT TERM EXPOSURE:** irritation, chest pain, cough, changes in body temperature, nausea, difficulty breathing, irregular heartbeat, dizziness, disorientation, hallucinations, mood swings, pain in extremities,







tremors, lung congestion, convulsions

**LONG TERM EXPOSURE:** irritation, cough, chest pain, lung damage

**SKIN CONTACT:**

**SHORT TERM EXPOSURE:** frostbite, blisters

**LONG TERM EXPOSURE:** no information on significant adverse effects

**EYE CONTACT:**

**SHORT TERM EXPOSURE:** irritation, frostbite, blurred vision

**LONG TERM EXPOSURE:** no information on significant adverse effects

**INGESTION:**

**SHORT TERM EXPOSURE:** ingestion of a gas is unlikely

**LONG TERM EXPOSURE:** ingestion of a gas is unlikely

---

#### 4. FIRST AID MEASURES

---

**INHALATION:** If adverse effects occur, remove to uncontaminated area. Get medical attention.

**SKIN CONTACT:** If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115 F; 41-46 C). DO NOT USE HOT WATER. If warm water is not available, gently wrap affected parts in blankets. Get immediate medical attention.

**EYE CONTACT:** Contact with liquid: Immediately flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

**INGESTION:** If a large amount is swallowed, get medical attention.

---

#### 5. FIRE FIGHTING MEASURES

---

**FIRE AND EXPLOSION HAZARDS:** Negligible fire hazard. Oxidizer. May ignite or explode on contact with combustible materials. Containers may rupture or explode if exposed to heat.

**EXTINGUISHING MEDIA:** carbon dioxide, regular dry chemical

Large fires: Use regular foam or flood with fine water spray.

**FIRE FIGHTING:** Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Use extinguishing agents appropriate for surrounding fire. Cool containers with water. Apply water from a protected location or from a safe distance.

---

#### 6. ACCIDENTAL RELEASE MEASURES

---



**OCCUPATIONAL RELEASE:**

Stop leak if possible without personal risk. Avoid contact with combustible materials. Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.

---

**7. HANDLING AND STORAGE**

---

**STORAGE:** Store and handle in accordance with all current regulations and standards. Protect from physical damage. Avoid heat, flames, sparks and other sources of ignition. Store in a clean, cool, dry place. Store in a well-ventilated area. Store below 125 F. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. Keep separated from incompatible substances.

---

**8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

---

**EXPOSURE LIMITS:**

**OXYGEN, COMPRESSED GAS:**

No occupational exposure limits established.

**VENTILATION:** Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**EYE PROTECTION:** For the gas: Eye protection not required, but recommended. For the liquid: Wear splash resistant safety goggles. Contact lenses should not be worn. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**CLOTHING:** For the gas: Protective clothing is not required. For the liquid: Wear appropriate protective, cold insulating clothing.

**GLOVES:** Wear insulated gloves.

**RESPIRATOR:** Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

**For Unknown Concentrations or Immediately Dangerous to Life or Health -**

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

---

**PHYSICAL STATE:** gas

**COLOR:** colorless



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**ODOR:** odorless  
**TASTE:** tasteless  
**MOLECULAR WEIGHT:** 31.9988  
**MOLECULAR FORMULA:** O<sub>2</sub>  
**BOILING POINT:** -297.33 F (-182.96 C)  
**FREEZING POINT:** -361.1 F (-218.4 C)  
**VAPOR PRESSURE:** 760 mmHg @ -183 C  
**VAPOR DENSITY (air=1):** 1.43  
**SPECIFIC GRAVITY (water=1):** 1.14 @ -183 C (liquid)  
**DENSITY:** 1.309 g/L @ 25 C  
**WATER SOLUBILITY:** 3.2% @ 25 C  
**PH:** Not applicable  
**VOLATILITY:** Not applicable  
**ODOR THRESHOLD:** Not available  
**EVAPORATION RATE:** Not applicable  
**VISCOSITY:** 0.02075 cP @ 25 C  
**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not applicable  
**SOLVENT SOLUBILITY:**  
**Soluble:** alcohol

---

## 10. STABILITY AND REACTIVITY

---

**REACTIVITY:** Stable at normal temperatures and pressure.

**CONDITIONS TO AVOID:** Avoid contact with combustible materials. Protect from physical damage and heat. Containers may rupture or explode if exposed to heat.

**INCOMPATIBILITIES:** combustible materials, halo carbons, metals, bases, reducing agents, amines, metal salts, oxidizing materials

**HAZARDOUS DECOMPOSITION:**

Thermal decomposition products: miscellaneous decomposition products

**POLYMERIZATION:** Will not polymerize.

---

## 11. TOXICOLOGICAL INFORMATION

---

**OXYGEN, COMPRESSED GAS:**

**MUTAGENIC DATA:** Available.

**REPRODUCTIVE EFFECTS DATA:** Available.

---

## 12. ECOLOGICAL INFORMATION

---



Not available

---

### 13. DISPOSAL CONSIDERATIONS

---

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

---

### 14. TRANSPORT INFORMATION

---

**U.S. DOT 49 CFR 172.101:**  
**PROPER SHIPPING NAME:** Oxygen, compressed  
**ID NUMBER:** UN1072  
**HAZARD CLASS OR DIVISION:** 2.2  
**LABELING REQUIREMENTS:** 2.2; 5.1



**CANADIAN TRANSPORTATION OF DANGEROUS GOODS:**  
**SHIPPING NAME:** Oxygen, compressed  
**UN NUMBER:** UN1072  
**CLASS:** 2.2; 5.1

---

### 15. REGULATORY INFORMATION

---

**U.S. REGULATIONS:**  
**CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):** Not regulated.

**SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart B):** Not regulated.

**SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart C):** Not regulated.

**SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370 Subparts B and C):**

ACUTE: Yes  
CHRONIC: No  
FIRE: Yes  
REACTIVE: No  
SUDDEN RELEASE: Yes

**SARA TITLE III SECTION 313 (40 CFR 372.65):** Not regulated.

**OSHA PROCESS SAFETY (29 CFR 1910.119):** Not regulated.



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Page 6 of 6

**STATE REGULATIONS:**

**California Proposition 65:** Not regulated.

**CANADIAN REGULATIONS:**

**WHMIS CLASSIFICATION:** A, C.

**NATIONAL INVENTORY STATUS:**

**U.S. INVENTORY (TSCA):** Listed on inventory.

**TSCA 12(b) EXPORT NOTIFICATION:** Not listed.

**CANADA INVENTORY (DSL/NDSL):** Listed on DSL.

---

16. OTHER INFORMATION

---

**MSDS SUMMARY OF CHANGES**

15. REGULATORY INFORMATION

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# HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD     DELETE     REVISED 1    Page \_\_\_\_\_ of \_\_\_\_\_ 2

FACILITY ID#	3 0 0 3 5	38 BUSINESS NAME	EL-COM CABLETEK
--------------	-----------	------------------	-----------------

## I. FACILITY INFORMATION

CHEMICAL LOCATION	SW OF BUILDING IN SHED OUTSIDE - INSIDE THE BUILDING MACHINE SHOP		
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5 MAP #	6 GRID # 8A 5A

## II. CHEMICAL INFORMATION

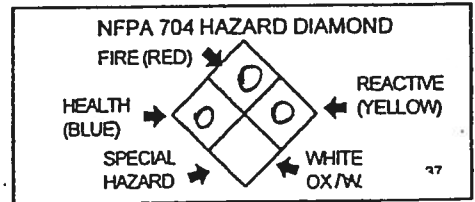
CHEMICAL NAME	ARGON	WASTE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	TRADE SECRET	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
COMMON NAME	ARGON	9 An EHS Chemical		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12
CAS #	7440-37-1	10 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
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 type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH
AVERAGE DAILY AMOUNT	60 CU FT	19 MAXIMUM DAILY AMOUNT	80 CU FT	20 ANNUAL WASTE AMOUNT	21 STATE WASTE CODE
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	25 336 CU FT
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
STORAGE PRESSURE	<input checked="" type="checkbox"/> a. AMBIENT	<input type="checkbox"/> b. ABOVE AMBIENT	<input type="checkbox"/> c. BELOW AMBIENT	27	
STORAGE TEMPERATURE	<input checked="" type="checkbox"/> a. AMBIENT	<input type="checkbox"/> b. ABOVE AMBIENT	<input type="checkbox"/> c. BELOW AMBIENT	<input type="checkbox"/> d. CRYOGENIC	28

%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 1006	33
Refer to shipping papers or MSDS		
DOT HAZARD CLASS	49 CFR 172.101	34
Refer to shipping papers or MSDS		
EPCRA	<input type="checkbox"/> YES <input type="checkbox"/> NO	35
X		36
If EPCRA, Please Sign Here		



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## MATERIAL SAFETY DATA SHEET

---

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

---

**MATHESON TRI-GAS, INC.**  
**150 Allen Road Suite 302**  
**Basking Ridge, New Jersey 07920**  
**Information: 1-800-416-2505**

**Emergency Contact:**  
**CHEMTREC 1-800-424-9300**  
**Calls Originating Outside the US:**  
**703-527-3887 (Collect Calls Accepted)**

**SUBSTANCE: ARGON, COMPRESSED**

**TRADE NAMES/SYNONYMS:**  
MTG MSDS 5; ARGON; UN 1006; AR; MAT01860; RTECS CF2300000

**CHEMICAL FAMILY:** non-metallic

**PRODUCT USE:** industrial

**CREATION DATE:** Mar 07 1990

**REVISION DATE:** Dec 11 2008

---

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

---

**COMPONENT:** ARGON, COMPRESSED  
**CAS NUMBER:** 7440-37-1  
**PERCENTAGE:** 100.0

---

### 3. HAZARDS IDENTIFICATION

---

**NFPA RATINGS (SCALE 0-4):** HEALTH=0 FIRE=0 REACTIVITY=0

**EMERGENCY OVERVIEW:**

**COLOR:** colorless

**PHYSICAL FORM:** gas

**ODOR:** odorless

**MAJOR HEALTH HAZARDS:** difficulty breathing

**PHYSICAL HAZARDS:** Containers may rupture or explode if exposed to heat.

**POTENTIAL HEALTH EFFECTS:**

**INHALATION:**

**SHORT TERM EXPOSURE:** nausea, vomiting, difficulty breathing, irregular heartbeat, headache,





dizziness, disorientation, mood swings, tingling sensation, loss of coordination, suffocation, convulsions, unconsciousness, coma

**LONG TERM EXPOSURE:** no information is available

**SKIN CONTACT:**

**SHORT TERM EXPOSURE:** frostbite

**LONG TERM EXPOSURE:** no information is available

**EYE CONTACT:**

**SHORT TERM EXPOSURE:** frostbite, blurred vision

**LONG TERM EXPOSURE:** no information is available

**INGESTION:**

**SHORT TERM EXPOSURE:** ingestion of a gas is unlikely

**LONG TERM EXPOSURE:** ingestion of a gas is unlikely

---

#### 4. FIRST AID MEASURES

---

**INHALATION:** If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

**SKIN CONTACT:** Wash exposed skin with soap and water.

**EYE CONTACT:** Flush eyes with plenty of water.

**INGESTION:** If a large amount is swallowed, get medical attention.

**NOTE TO PHYSICIAN:** For inhalation, consider oxygen.

---

#### 5. FIRE FIGHTING MEASURES

---

**FIRE AND EXPLOSION HAZARDS:** Negligible fire hazard. Pressurized containers may rupture or explode if exposed to sufficient heat.

**EXTINGUISHING MEDIA:** Use extinguishing agents appropriate for surrounding fire.

Large fires: Use water spray to keep containers cool.

**FIRE FIGHTING:** Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile).

**FIRE FIGHTING PROTECTIVE EQUIPMENT:** Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.





**FLASH POINT:** Not available  
**LOWER FLAMMABLE LIMIT:** Not available  
**UPPER FLAMMABLE LIMIT:** Not available  
**AUTOIGNITION:** Not available

---

## 6. ACCIDENTAL RELEASE MEASURES

---

### **OCCUPATIONAL RELEASE:**

Stop leak if possible without personal risk. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.

---

## 7. HANDLING AND STORAGE

---

**STORAGE:** Store and handle in accordance with all current regulations and standards. Protect from sunlight. Store in a well-ventilated area. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. Keep separated from incompatible substances.

**HANDLING:** Avoid breathing gas. Use only with adequate ventilation.

---

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

---

### **EXPOSURE LIMITS:**

**ARGON, COMPRESSED:**

**ARGON:**

ACGIH (simple asphyxiant)

**VENTILATION:** Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**EYE PROTECTION:** Eye protection not required, but recommended.

**CLOTHING:** Protective clothing is not required.

**GLOVES:** Wear appropriate chemical resistant gloves.

**RESPIRATOR:** Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

### **For Unknown Concentrations or Immediately Dangerous to Life or Health -**

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.



Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

**PHYSICAL STATE:** gas

**COLOR:** colorless

**ODOR:** odorless

**TASTE:** tasteless

**MOLECULAR WEIGHT:** 39.948

**MOLECULAR FORMULA:** Ar

**BOILING POINT:** -303 F (-186 C)

**FREEZING POINT:** -308 F (-189 C)

**DECOMPOSITION POINT:** Not available

**VAPOR PRESSURE:** 500 mmHg @ -190 C

**VAPOR DENSITY (air=1):** 1.380

**SPECIFIC GRAVITY:** Not applicable

**DENSITY:** 1.784 g/L @ 0 C

**WATER SOLUBILITY:** 3.36% @ 20 C

**PH:** Not applicable

**VOLATILITY:** Not applicable

**ODOR THRESHOLD:** Not available

**EVAPORATION RATE:** Not applicable

**VISCOSITY:** 0.0225 cP @ 25 C

**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not applicable

**SOLVENT SOLUBILITY:**

Soluble: organic solvents

---

## 10. STABILITY AND REACTIVITY

---

**REACTIVITY:** Stable at normal temperatures and pressure.

**CONDITIONS TO AVOID:** Protect from physical damage and heat. Containers may rupture or explode if exposed to heat.

**INCOMPATIBILITIES:** No data available.

**HAZARDOUS DECOMPOSITION:**

Thermal decomposition products: No data available.

**POLYMERIZATION:** Will not polymerize.

---

## 11. TOXICOLOGICAL INFORMATION

---

**ARGON, COMPRESSED:**

**TARGET ORGANS:** simple asphyxiant

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known.

---

## 12. ECOLOGICAL INFORMATION

---

**ECOTOXICITY DATA:**

**FISH TOXICITY:** No data available.

**INVERTEBRATE TOXICITY:** No data available.

**ALGAL TOXICITY:** No data available.

**FATE AND TRANSPORT:**

**BIODEGRADATION:** No data available.

---

## 13. DISPOSAL CONSIDERATIONS

---

Dispose in accordance with all applicable regulations.

---

## 14. TRANSPORT INFORMATION

---

**U.S. DOT 49 CFR 172.101:**

**PROPER SHIPPING NAME:** Argon, compressed

**ID NUMBER:** UN1006

**HAZARD CLASS OR DIVISION:** 2.2

**LABELING REQUIREMENTS:** 2.2



**CANADIAN TRANSPORTATION OF DANGEROUS GOODS:**

**SHIPPING NAME:** Argon, compressed

**UN NUMBER:** UN1006

**CLASS:** 2.2

---

## 15. REGULATORY INFORMATION

---

**U.S. REGULATIONS:**

**CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):** Not regulated.



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**SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart B):** Not regulated.

**SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart C):** Not regulated.

**SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370 Subparts B and C):**

ACUTE: Yes

CHRONIC: No

FIRE: No

REACTIVE: No

SUDDEN RELEASE: Yes

**SARA TITLE III SECTION 313 (40 CFR 372.65):** Not regulated.

**OSHA PROCESS SAFETY (29 CFR 1910.119):** Not regulated.

**STATE REGULATIONS:**

**California Proposition 65:** Not regulated.

**CANADIAN REGULATIONS:**

**WHMIS CLASSIFICATION:** A.

**NATIONAL INVENTORY STATUS:**

**U.S. INVENTORY (TSCA):** Listed on inventory.

**TSCA 12(b) EXPORT NOTIFICATION:** Not listed.

**CANADA INVENTORY (DSL/NDSL):** Listed on inventory.

---

**16. OTHER INFORMATION**

---

**MSDS SUMMARY OF CHANGES**

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
3. HAZARDS IDENTIFICATION
5. FIRE FIGHTING MEASURES
7. HANDLING AND STORAGE
9. PHYSICAL AND CHEMICAL PROPERTIES
11. TOXICOLOGICAL INFORMATION
12. ECOLOGICAL INFORMATION
15. REGULATORY INFORMATION

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# HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD

DELETE

REVISED 1

Page \_\_\_\_\_ of \_\_\_\_\_ 2

FACILITY ID#	3 0 0 3 5	38 BUSINESS NAME	EL-COM CABLETEK	3
--------------	-----------	------------------	-----------------	---

## I. FACILITY INFORMATION

CHEMICAL LOCATION	SW OF BUILDING OUTSIDE IN THE SHED - INSIDE THE BUILDING MARKING <sup>SPD</sup>			4
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5 MAP #	6 GRID #	7
			8A 5A	

## II. CHEMICAL INFORMATION

CHEMICAL NAME	HELIUM	WASTE <input type="checkbox"/> Yes	8	TRADE SECRET <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11
COMMON NAME	HELIUM	* If EPCRA see instructions		9	An EHS Chemical <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
CAS #	7440-59-7	10 FIRE CODE HAZARD CLASSES (supplied by GGFD)		13	"If EHS is "Yes", all amounts must be LBS
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
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	18	<input type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH
AVERAGE DAILY AMOUNT	60 cuft	19	MAXIMUM DAILY AMOUNT	80 cuft	20
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	24k cuft	25	27		
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"/> l. FIBER DRUM <input type="checkbox"/> m. BAG(S) <input type="checkbox"/> n. BOX(S)	<input checked="" type="checkbox"/> m. CYLINDER <input type="checkbox"/> o. PLASTIC CONTAINER <input type="checkbox"/> p. IN MACH OR EQUIP	<input type="checkbox"/> q. TANK WAGON <input type="checkbox"/> r. RAIL CAR <input type="checkbox"/> s. TOTE BIN <input type="checkbox"/> t. OTHER
STORAGE PRESSURE	<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT	27			
STORAGE TEMPERATURE	<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC	28			

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

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

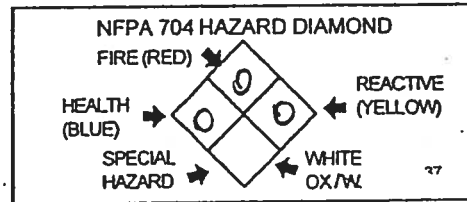
## PLACARDING INFORMATION

UNDOT # UN 1046 33  
Refer to shipping papers or MSDS

DOT HAZARD CLASS 49 CFR 172.101 34  
Refer to shipping papers or MSDS

EPCRA  YES  NO 35

X \_\_\_\_\_ 36  
If EPCRA, Please Sign Here



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Page 1 of 8

# MATERIAL SAFETY DATA SHEET

---

## 1. IDENTIFICATION

---

**MATHESON TRI-GAS, INC.**  
**150 Allen Road Suite 302**  
**Basking Ridge, New Jersey 07920**  
**Information: 1-800-416-2505**

**Emergency Contact:**  
**CHEMTREC 1-800-424-9300**  
**Calls Originating Outside the US:**  
**703-527-3887 (Collect Calls Accepted)**

**PRODUCT NAME: HELIUM**

**TRADE NAMES/SYNONYMS:**

MTG MSDS 48; HELIUM GAS; HELIUM COMPRESSED; HELIUM-4; ATOMIC HELIUM; UN 1046; He; MAT10640

**CHEMICAL FAMILY:** inorganic, gas

**PRODUCT USE:** industrial

**RESTRICTIONS ON USE:** none known

---

## 2. HAZARDS IDENTIFICATION

---

**GHS CLASSIFICATION:**

Gas under pressure, Compressed gas

**GHS SYMBOL:**



**GHS SIGNAL WORD:** WARNING

**GHS HAZARD STATEMENT:**

Contains gas under pressure; may explode if heated

**GHS PRECAUTIONARY STATEMENTS:** Protect from sunlight. Store in a well-ventilated place.

**EMERGENCY OVERVIEW:**

**PHYSICAL HAZARDS:** Containers may rupture or explode if exposed to heat.



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Page 2 of 8

**POTENTIAL HEALTH EFFECTS:**

**INHALATION:**

**SHORT TERM EXPOSURE:** nausea, vomiting, difficulty breathing, irregular heartbeat, headache, fatigue, dizziness, disorientation, emotional disturbances, tingling sensation, loss of coordination, suffocation, convulsions, unconsciousness, coma

**LONG TERM EXPOSURE:** no information is available

**SKIN CONTACT:**

**SHORT TERM EXPOSURE:** frostbite

**LONG TERM EXPOSURE:** no information is available

**EYE CONTACT:**

**SHORT TERM EXPOSURE:** frostbite, blurred vision

**LONG TERM EXPOSURE:** no information is available

**INGESTION:**

**SHORT TERM EXPOSURE:** ingestion of a gas is unlikely

**LONG TERM EXPOSURE:** ingestion of a gas is unlikely

---

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

---

**COMPONENT:** HELIUM

**CAS NUMBER:** 7440-59-7

**EC NUMBER (EINECS):** 231-168-5

**PERCENTAGE:** 100

---

**4. FIRST AID MEASURES**

---

**INHALATION:** If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

**SKIN CONTACT:** Wash exposed skin with soap and water.

**EYE CONTACT:** Flush eyes with plenty of water.

**INGESTION:** If a large amount is swallowed, get medical attention.

**SYMPTOMS/EFFECTS:**

**ACUTE:** suffocation

**DELAYED:** no data available

**NOTE TO PHYSICIAN:** For inhalation, consider oxygen.

---

**5. FIRE FIGHTING MEASURES**

---





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Page 3 of 8

**FIRE AND EXPLOSION HAZARDS:** Negligible fire hazard. Containers may rupture or explode if exposed to heat.

**EXTINGUISHING MEDIA:** Use extinguishing agents appropriate for surrounding fire.

Large fires: Use water spray to keep containers cool.

**UNSUITABLE EXTINGUISHING MEDIA:** None known.

**FIRE FIGHTING:** Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile).

**FIRE FIGHTING PROTECTIVE EQUIPMENT:** Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

**HAZARDOUS COMBUSTION PRODUCTS:**

Thermal decomposition or combustion products: Not applicable

---

## 6. ACCIDENTAL RELEASE MEASURES

---

**PERSONAL PRECAUTIONS:**

Wear personal protective clothing and equipment, see Section 8.

**EMERGENCY PROCEDURES:**

Do not extinguish, unless leak can be stopped safely. Reduce vapors with water spray. Eliminate all ignition sources if safe to do so. Keep unnecessary people away, isolate hazard area and deny entry.

**ENVIRONMENTAL PRECAUTIONS:**

Avoid release to the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:**

Avoid heat, flames, sparks and other sources of ignition. Ventilate closed spaces before entering. Damaged cylinders should be handled only by specialists.

---

## 7. HANDLING AND STORAGE

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**HANDLING:** Avoid breathing gas. Use only with adequate ventilation.

**STORAGE:** Store and handle in accordance with all current regulations and standards. Protect from sunlight. Store in a well-ventilated area. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. Keep separated from incompatible substances.



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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

### **EXPOSURE LIMITS:**

#### **HELIUM:**

ACGIH (simple asphyxiant)

### **BIOLOGICAL LIMIT VALUES:**

#### **HELIUM:**

No biological limit value(s) available.

**ENGINEERING CONTROLS:** Provide local exhaust or process enclosure ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

**EYE PROTECTION:** Eye protection not required, but recommended.

**CLOTHING:** Protective clothing is not required.

**GLOVES:** Protective gloves are not required.

**RESPIRATOR:** Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

#### **For Unknown Concentrations or Immediately Dangerous to Life or Health -**

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

**PHYSICAL STATE:** gas

**COLOR:** colorless

**ODOR:** odorless

**TASTE:** tasteless

**MOLECULAR WEIGHT:** 4.0026

**MOLECULAR FORMULA:** He

**BOILING POINT:** -269 C

**FREEZING POINT:** -272 C @ 26 atm

**FLASH POINT:** Not available

**LOWER FLAMMABLE LIMIT:** Not available

**UPPER FLAMMABLE LIMIT:** Not available

**AUTOIGNITION:** Not available



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**DECOMPOSITION POINT:** Not available  
**VAPOR PRESSURE:** 1719 mmHg @ -268 C  
**VAPOR DENSITY (air=1):** 0.138  
**SPECIFIC GRAVITY:** Not applicable  
**DENSITY:** 0.1785 g/L @ 0 C  
**WATER SOLUBILITY:** 0.94% @ 0 C  
**PH:** Not applicable  
**VOLATILITY:** Not applicable  
**ODOR THRESHOLD:** odorless  
**EVAPORATION RATE:** Not applicable  
**VISCOSITY:** 0.02012 cP @ 26.8 C  
**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not applicable  
**OCTANOL/WATER PARTITION COEFFICIENT (LOG K<sub>ow</sub>):** Not available  
**SOLVENT SOLUBILITY:**  
**Insoluble:** alcohol

---

## 10. STABILITY AND REACTIVITY

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**STABILITY:** Stable at normal temperatures and pressure.

**CONDITIONS TO AVOID:** Protect from physical damage and heat. Containers may rupture or explode if exposed to heat. Avoid inhalation of material or combustion by-products.

**INCOMPATIBILITIES:** No data available.

**HAZARDOUS DECOMPOSITION:**

Thermal decomposition or combustion products: Not applicable

**POSSIBILITY OF HAZARDOUS REACTIONS:** Will not polymerize.

---

## 11. TOXICOLOGICAL INFORMATION

---

**HELIUM:**

**LIKELY ROUTES OF EXPOSURE:** inhalation, skin, eyes

**ASPIRATION HAZARD:** Not applicable.

**SENSITIZER:**

**DERMAL:** No data available.

**RESPIRATORY:** No data available.

**EFFECTS FROM EXPOSURE:**

**IMMEDIATE:** suffocation

**DELAYED:** no data available

**IRRITATION DATA:** No animal testing data available for skin or eyes.

**CARCINOGEN STATUS:** No data available.

**LOCAL EFFECTS:**



No data available.

**TARGET ORGANS:** simple asphyxiant

**CHRONIC EFFECTS:**

No data available.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known.

**TUMORIGENIC DATA:** No data available.

**MUTAGENIC DATA:** No data available.

**REPRODUCTIVE EFFECTS DATA:** No data available.

---

## 12. ECOLOGICAL INFORMATION

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**ECOTOXICITY DATA:**

**FISH TOXICITY:** No data available.

**INVERTEBRATE TOXICITY:** No data available.

**ALGAL TOXICITY:** No data available.

**FATE AND TRANSPORT:**

**BIODEGRADATION:** No data available.

**MOBILITY:** No data available.

**PERSISTENCE:** No data available.

**BIOACCUMULATION:** No data available.

---

## 13. DISPOSAL CONSIDERATIONS

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Dispose in accordance with all applicable regulations.

---

## 14. TRANSPORT INFORMATION

---

**U.S. DOT 49 CFR 172.101:**

**PROPER SHIPPING NAME:** Helium, compressed

**ID NUMBER:** UN1046

**HAZARD CLASS OR DIVISION:** 2.2

**LABELING REQUIREMENTS:** 2.2

**MARITIME TRANSPORT IMDG:**

**PROPER SHIPPING NAME:** Helium, compressed

**UN NUMBER:** UN1046

**CLASS OR DIVISION:** 2.2



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## 15. REGULATORY INFORMATION

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### U.S. REGULATIONS:

**CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):** Not regulated.

**SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart B):** Not regulated.

**SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart C):** Not regulated.

**SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370 Subparts B and C):**

ACUTE: Yes

CHRONIC: No

FIRE: No

REACTIVE: No

SUDDEN RELEASE: Yes

**SARA TITLE III SECTION 313 (40 CFR 372.65):** Not regulated.

**OSHA PROCESS SAFETY (29 CFR 1910.119):** Not regulated.

### STATE REGULATIONS:

**California Proposition 65:** Not regulated.

### CANADIAN REGULATIONS:

**WHMIS CLASSIFICATION:** A.

### NATIONAL INVENTORY STATUS:

**U.S. INVENTORY (TSCA):** Listed on inventory.

**TSCA 12(b) EXPORT NOTIFICATION:** Not listed.

**CANADA INVENTORY (DSL/NDSL):** Not determined.

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## 16. OTHER INFORMATION

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**NFPA RATINGS (SCALE 0-4):** HEALTH=0 FIRE=0 REACTIVITY=0

**REVISION DATE:** Dec 11 2008





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# HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD

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FACILITY ID#	3 0 0 3 5	38 BUSINESS NAME	EL-COM CABLETEK	3
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## I. FACILITY INFORMATION

CHEMICAL LOCATION	SHIPPING AREA				4
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CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5 MAP #	6 GRID #	7 F	7
-----------------------------	---	---------	----------	-----	---

## II. CHEMICAL INFORMATION

CHEMICAL NAME	INSTAPAK COMPONENT A	WASTE <input type="checkbox"/> Yes	8 TRADE SECRET <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11
---------------	----------------------	------------------------------------	--	----

COMMON NAME	INSTAPAK	9 An EHS Chemical <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12
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CAS #	9016-87-9	10 FIRE CODE HAZARD CLASSES (supplied by GGFD)	13
-------	-----------	--	----

TYPE (Check one item only)	<input type="checkbox"/> a. PURE <input checked="" type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE	14 RADIOACTIVE <input type="checkbox"/> Yes <input 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 type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE	18
--------------------------------------	---	--------------------------	--	----

AVERAGE DAILY AMOUNT	12 02	19 MAXIMUM DAILY AMOUNT	20 2002	21 ANNUAL WASTE AMOUNT	22 STATE WASTE CODE
----------------------	-------	-------------------------	---------	------------------------	---------------------

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	24 365	25 LARGEST CONTAINER	55 GAL
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STORAGE CONTAINER (Check all that apply)	<input type="checkbox"/> a. ABOVEGROUND TANK <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> c. TANK INSIDE BLDG <input checked="" type="checkbox"/> d. STEEL DRUM	<input type="checkbox"/> e. PLASTIC DRUM <input type="checkbox"/> f. NONMETALLIC DRUM <input type="checkbox"/> g. METAL CONTAINER <input type="checkbox"/> h. CARBOY	<input type="checkbox"/> i. VAT <input type="checkbox"/> j. FIBER DRUM <input type="checkbox"/> k. BAG(S) <input type="checkbox"/> l. BOX(S)	<input type="checkbox"/> m. CYLINDER <input type="checkbox"/> n. GLASS CONTAINER <input type="checkbox"/> o. PLASTIC CONTAINER <input type="checkbox"/> p. IN MACH OR EQUIP	<input type="checkbox"/> q. TANK WAGON <input type="checkbox"/> r. RAIL CAR <input type="checkbox"/> s. TOTE BIN <input type="checkbox"/> t. OTHER	26
--	--	--	--	---	--	----

STORAGE PRESSURE	<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT	27
------------------	--	----

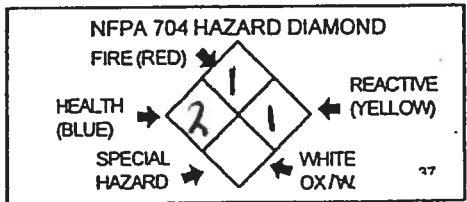
STORAGE TEMPERATURE	<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC	28
---------------------	--	----

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

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

## PLACARDING INFORMATION

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



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

**EMERGENCY NUMBERS:**

Sealed Air Corporation (US): (203) 791-3500 *For emergency and general information*  
8:30am-5:00pm, (Eastern Time) Monday-Friday

CHEMTREC: (800) 424-9300 *For Chemical Emergency - spill, leak, fire, exposure or accident*  
24 hours

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

Product Name: INSTAPAK® COMPONENT "A"  
Chemical Name: Polymethylene Polyphenylisocyanate  
Trade Name: Polymeric MDI  
Chemical Family: Aromatic Isocyanates  
CAS No.: 9016-87-9

**SECTION 2 - HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

**Health Hazards:** Irritating to skin, respiratory system and eyes. Repeated inhalation of aerosols at levels above the occupational exposure limit could cause respiratory sensitization and risk of serious damage to respiratory system. The onset of the respiratory symptoms may be immediate or delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations of MDI may develop in sensitized persons. Sensitized persons should not be exposed to any mixture containing unreacted MDI. Respiratory sensitizer. Skin sensitizer.

**Medical Conditions Aggravated by Exposure:** Respiratory disorders, asthma, skin allergies and eczema.

**Physical Hazards:** Closed containers may rupture under extreme heat or when contents have been contaminated with water. Use cold water spray to cool fire-exposed containers to minimize risk of rupture.

**Appearance:** Dark brown liquid with slightly aromatic or musty odor.

**Note:** Read the entire MSDS for a more thorough evaluation of the hazard information on this product.

**SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Hazardous Components:</u>	<u>CAS No.</u>	<u>Wt. %</u>	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>
Polymeric Diphenylmethane Diisocyanate (polymeric MDI or PMDI)	9016-87-9	100	Not Listed	Not Listed
Contains:				
4,4'-Diphenylmethane diisocyanate (4,4'-MDI; approx. 45% )	101-68-8		0.02 ppm (Ceiling)	0.005 ppm (TWA)
Other MDI isomers and oligomers	Not Listed		Not Listed	Not Listed

This product is classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).



**SECTION 4 - FIRST AID MEASURES**

**Eye Contact:** Immediately flush eyes with copious amounts of water for a minimum of 15 minutes, holding lids open with fingers. If irritation persists, repeat flushing. Refer individual to a physician for immediate follow-up.

**Skin Contact:** Remove contaminated clothing and/or shoes. Immediately wash affected area thoroughly with soap and water. Some organic materials such as corn oil or propylene glycol can aid in the removal of PMDI from the skin when applied immediately. Contaminated clothing should be thoroughly cleaned before reuse. If irritation, redness, or a burning sensation develops and persists, obtain medical advice.

**Inhalation:** Remove patient from further exposure and obtain medical attention. Treatment is symptomatic for primary irritation or difficulty in breathing. If breathing is labored, qualified personnel should administer oxygen. Apply artificial respiration if breathing has ceased or shows signs of failing. Asthmatic-like symptoms, if manifested, may develop immediately, or be delayed for up to several hours.

**Ingestion:** Do NOT induce vomiting. Provided the patient is conscious, wash mouth out with water. Refer person to medical personnel for immediate attention.

**Note to Physicians:** Symptomatic and supportive therapy as indicated. Following severe exposure, medical follow-up should be monitored for at least 48 hours.

**SECTION 5 - FIRE FIGHTING MEASURES**

**Flash Point:** 390°F (199°C) [Pensky-Martens Closed Cup]

**Flammable Limits (lower):** Not available

**Flammable Limits (upper):** Not available

**Extinguishing Media:** Water, carbon dioxide (CO<sub>2</sub>), dry chemical or appropriate foam. If water is used, large quantities are required. Reaction between water and hot isocyanate may be vigorous. Contain run-off water with temporary barriers.

**Fire Fighting Procedures:** Firefighters should wear NFPA compliant protective equipment including a self-contained breathing apparatus, helmet, hood, boots and gloves. Avoid contact with material. Decontaminate equipment and protective clothing prior to reuse. During a fire, isocyanate vapors and other irritating, toxic gases may be generated by thermal decomposition or combustion. Exposure to heated diisocyanate should be avoided.

**Fire and Explosion Hazards:** Containers with residual chemical may burst under intense heat or pressure. Due to reaction with water, a hazardous build-up of pressure could result if containers contaminated with moisture are sealed.

**NFPA Hazard Code:**

Health	2
Flammability	1
Reactivity	1
Special Hazard	None

0=Minimal 1=Slight 2=Moderate 3=High 4=Extreme

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Evacuate area surrounding the spill and prevent further spillage, leakage or entry into drains. Eye and skin protection should be worn during spill cleanup and ventilation maintained. If the potential for airborne concentrations of MDI above the PEL exists, then respiratory protection should be worn. Contain and cover spill with loose absorbent (earth, sand, sawdust or other absorbent material), or absorbent pillows, pads or socks. Collect absorbed material in open containers or plastic bags, and treat with deactivating solution (90% water, 8% concentrated ammonia, 2% detergent). Allow to stand uncovered for 48-72 hours to permit carbon dioxide to escape and solidification to occur. Wash spill area with deactivating solution and let stand for 30 minutes or longer. Dispose of absorbed and neutralized material properly.

**SECTION 7 - HANDLING AND STORAGE**

Storage Temperature: Min. 50°F (10°C) Max. 100°F (38°C)

Average Shelf Life: 12 months (when stored in original, unopened, sealed containers).

Special Sensitivity: Reacts with moisture to produce carbon dioxide gas.

Precautions to be Taken in Handling and Storage: Do not store product containers uncovered outdoors. Do not reseal containers unless it is certain that no moisture contamination has occurred. Do not breathe vapors or allow skin contact.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure Limits: OSHA-PEL: 4,4'-Diphenylmethane diisocyanate (MDI) 0.02 ppm (Ceiling)  
ACGIH-TLV: 4,4'-Diphenylmethane diisocyanate (MDI) 0.005 ppm (TWA)

HMIS Hazard Code:

Health	2*
Flammability	1
Reactivity	1
PPE	B

(Personal Protective Equipment) (B= safety glasses and gloves)

0=Minimal 1=Slight 2=Moderate 3=High 4=Severe \*=chronic health hazard

Exposure Guidelines: Medical supervision of employees who come into contact with respiratory sensitizers is recommended. Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted. Avoid inhalation of mists and vapors. Avoid skin contact.

Respiratory Protection: Due to the low vapor pressure of this material, the PEL is not likely to be exceeded under normal conditions. If the material is heated or spilled in a confined area, respiratory protection should be worn. An approved air purifying respirator equipped with an organic vapor cartridge and a HEPA (P100) particulate filter may be used when an appropriate cartridge change-out schedule has been developed in accordance with the OSHA respiratory protection standard (29 CFR 1910.134). Where concentrations exceed the level for which an air-purifying respirator is effective, use a positive pressure, supplied air respirator.

Eye Protection: Safety glasses with side shields or goggles.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)**

Protective Clothing: Chemical resistant butyl rubber, nitrile rubber, neoprene, or other suitable protective gloves.

Ventilation: Use local exhaust ventilation if necessary to maintain levels below the PEL. For guidance on engineering controls refer to the ACGIH publication "Industrial Ventilation."

Other: Eyewash station, safety shower, and deactivating solution (see Section 6) should be available. Refer to the "Recommendations for the Safe Use and Handling for Foam-in-Place Chemicals" bulletin before handling Instapak® chemicals.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Liquid

Color: Dark brown

Odor: Slightly aromatic (musty)

Vapor Density (Air = 1): 8.5

Molecular Weight: Approx. 350

Melting Point: Not established.

Boiling Point: 406°F (208°C)

Vapor Pressure:  $< 10^{-5}$  mm Hg at 25°C (for Polymeric MDI)

Specific Gravity: 1.24 at 25°C

Bulk Density: 10.3 lbs/gal

% Volatile by Volume: Nil

Solubility in Water: Not soluble. Reacts slowly to liberate CO<sub>2</sub> gas.

**SECTION 10 - STABILITY AND REACTIVITY**

Stability: Stable under normal conditions. Avoid temperatures above 110°F (43°C) or below 40°F (4°C).

Polymerization: May occur at elevated temperatures in the presence of moisture, alkalies, tertiary amines and metal compounds.

Conditions to Avoid: Contact with moisture and other materials that contain active hydrogen.

Incompatible Materials: Water, amines, strong bases, copper alloys and alcohols. The reaction with water is slow at temperatures less than 120°F (49°C) but is accelerated at higher temperatures.

Hazardous Decomposition Products: Highly unlikely under normal industrial use. Exposure to fire or extreme heat may generate oxides of carbon, oxides of nitrogen, and traces of hydrogen cyanide.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Toxicity Data:

LD <sub>50</sub> Oral:	>2,000 mg/kg (rat) for polymeric MDI
LD <sub>50</sub> Dermal:	>10,000 mg/kg (rabbit) for monomeric MDI
LC <sub>50</sub> Inhalation:	>2,240 mg/m <sup>3</sup> /1 hour (rat) for an aerosol of monomeric MDI 370-490 mg/m <sup>3</sup> /4 hour (rat) for polymeric MDI

Primary Route(s) of Exposure: Skin contact from liquid. Inhalation. However, due to the low vapor pressure, overexposure is not expected under normal conditions unless material is heated or used in a poorly ventilated area.

Inhalation: This product is a respiratory irritant and respiratory sensitizer. Inhalation of vapor or aerosol at levels above the occupational exposure limit can cause respiratory sensitization. Symptoms may include irritation to the eyes, nose, throat, and lungs, possibly combined with dryness of the throat, tightness of chest and difficulty in breathing. The onset of respiratory symptoms may be delayed for several hours after exposure.

**SECTION 11 - TOXICOLOGICAL INFORMATION (continued)**

A hyper-reactive response to even minimal concentrations of MDI may develop in sensitized persons. Sensitized persons should be removed from any further exposure. Persons with asthma-type conditions or other chronic respiratory diseases should be excluded from working with MDI. Like many other non-specific asthmatic responses, there are reports that a sensitized individual can experience symptoms upon exposure to dust, cold air or other irritants. In a single evaluation of 5 men occupationally exposed to MDI and hydrocarbon solvent vapors under conditions where adequate ventilation or other safety precautions were not used, neuropsychologic findings were attributed to MDI.

Skin Contact: Skin irritant and sensitizer. May cause irritation or rash. Can cause skin discoloration. Repeated and/or prolonged contact may result in skin sensitization. Individuals who have skin sensitization can develop symptoms (e.g., reddening swelling, rash) from contact with liquid or vapors. There is limited evidence from laboratory tests that skin contact may play a role in respiratory sensitization. This data reinforces the need to prevent direct skin contact and the importance of protective gloves.

Eye Contact: Liquid can cause eye irritation, tearing, reddening and swelling. Permanent corneal injury is unlikely. Exposure to MDI vapors in excess of 0.02 ppm may cause irritation.

Ingestion: Ingestion is unlikely. Based on the acute oral LD<sub>50</sub>, this product is considered practically non-toxic by ingestion. Ingestion can cause irritation and corrosive action in the mouth, stomach and digestive tract.

Chronic Effects: A study was conducted where groups of rats were exposed for 6 hours/day, 5 days/week for a lifetime to atmospheres of respirable polymeric MDI aerosol either at concentrations of 0, 0.2, 1, or 6 mg/m<sup>3</sup>. No adverse effects were observed at 0.2 mg/m<sup>3</sup> concentrations. At the 1 mg/m<sup>3</sup> concentration, minimal nasal and lung irritant effects were seen. Only at the highest concentration (6 mg/m<sup>3</sup>) was there an increased incidence of benign tumor of the lung (adenoma) and one malignant tumor (adenocarcinoma). MDI administration to rats in this study did not change the distribution and incidence of tumors from those seen in control animals. The increased incidence of lung tumors is associated with prolonged respiratory irritation and the concurrent accumulation of yellow material in the lung. In the absence of prolonged exposure to high concentrations leading to chronic irritation and lung damage, it is highly unlikely that tumor formation will occur.

Carcinogenicity: The ingredients of this product (>0.1%) are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSHA and not listed as carcinogens by NTP.

Mutagenicity: There is no substantial evidence of mutagenic potential.

Reproductive Effects: No adverse reproductive effects are anticipated.

Teratogenicity and Fetotoxicity: No birth defects were seen in two independent animal (rat) studies. Fetotoxicity was observed at doses that were extremely toxic (including lethal) to the mother. The dose that produced this effect (1.2 ppm) is 60 times higher than the OSHA-PEL. Fetotoxicity was not observed at doses that were not maternally toxic. The doses used in these studies were maximal, respirable concentrations well in excess of the defined occupational exposure limits.

**SECTION 12 - ECOLOGICAL INFORMATION**

Environmental Fate and Distribution: It is unlikely that significant environmental exposure in the air or water will arise, based on consideration of the production and use of the substance.

**SECTION 12 - ECOLOGICAL INFORMATION (continued)**

Persistence and Degradation: Immiscible with water, but will react with water to produce carbon dioxide, and inert and non-biodegradable solids.

Aquatic Toxicity:

LC<sub>50</sub>: >1,000 mg/l (Zebra fish, 96 hrs)  
LC<sub>50</sub>: >3,000mg/l (Killifish, 96 hrs)  
EC<sub>50</sub>: >1,000 mg/l (Daphnea magna, 24 hrs)  
EC<sub>50</sub>: >100 mg/l (Activated sludge microorganisms, 3 hrs)

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Incinerate or dispose of in accordance with existing federal, state and local environmental control regulations. This material is not a hazardous waste under RCRA 40 CFR 261 when disposed of in its purchased form. Small quantities should be treated with deactivation solution outlined in Section 6. Refer to the "Recommendations for the Safe Use and Handling for Foam-in-Place Chemicals" bulletin for additional information concerning disposal of wastes and empty containers. Chemical waste, regardless of quantity, should never be poured into drains, sewers or waterways.

**SECTION 14 - TRANSPORT INFORMATION**

DOT: Single containers less than 5,000 pounds are not regulated.

IMO: Not regulated.

IATA/ICAO Class: Not regulated.

Reportable Quantity (RQ): 5,000 lbs. for Methylene diphenyl diisocyanate (4,4'-MDI), CAS #101-68-8 (~ 45% of product).

**SECTION 15 - REGULATORY INFORMATION**

TSCA Status: All ingredients are listed or are not required to be listed.

CERCLA Status: Discarded product is not a hazardous waste under RCRA, 40 CFR 261, when disposed of in its purchased form.

SARA 302 Extremely Hazardous Substances: None

SARA 311/312 Hazard Categories: Immediate (acute) Health Hazard, Delayed (chronic) Health Hazard

SARA 313 Listed Ingredients: This product contains the following chemicals subject to reporting requirements: 100% Diisocyanate compounds (Category Code N120).

This product contains a trace (ppm) amount of monochlorobenzene (CAS# 108-90-7) as an impurity.

**SECTION 16 - OTHER INFORMATION**

Other Regulations/Legislation which apply to this product: Massachusetts Right-to-Know, New Jersey Right-to-Know, Pennsylvania Right-to-Know [Methylene bisphenyl isocyanate (4,4'-MDI), CAS#101-68-8].

This product does not contain any of the listed chemicals which the state of California has found to cause cancer, birth defects or other reproductive harm.

Section(s) Revised: Company logo updated. Sections 2, 3, 5 8, 11, 12and 16 revised.

Printed using vegetable based inks.

M-3

Rev. 1/2008



# HAZARDOUS MATERIALS INVENTORY FORM

FORM 3

ADD

DELETE

REVISED 1

Page \_\_\_\_\_ of \_\_\_\_\_ 2

FACILITY ID#	3 0 0 3 5	38	BUSINESS NAME	EL-COM CABLETEK	3
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## I. FACILITY INFORMATION

CHEMICAL LOCATION	SHIPPING AREA					4	
CONFIDENTIAL LOCATION EPCRA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5	MAP #	6	GRID #	7 F	7

## II. CHEMICAL INFORMATION

CHEMICAL NAME	INSTAPAK MOLDING FOAM B		WASTE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8	TRADE SECRET	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11													
COMMON NAME	INSTAPAK MOLDING FOAM COMPONENT "B"		9	An EHS Chemical	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12															
CAS #	10	PROPRIETARY	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 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	1202	19	MAXIMUM DAILY AMOUNT	2002	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 GAL	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 checked="" type="checkbox"/> d. STEEL DRUM	<input type="checkbox"/> e. PLASTIC DRUM	<input type="checkbox"/> f. NONMETALLIC DRUM	<input type="checkbox"/> g. METAL CONTAINER	<input type="checkbox"/> h. CARBOY	<input type="checkbox"/> i. VAT	<input type="checkbox"/> j. FIBER DRUM	<input type="checkbox"/> k. BAG(S)	<input type="checkbox"/> l. BOX(S)	<input type="checkbox"/> m. CYLINDER	<input type="checkbox"/> n. GLASS CONTAINER	<input type="checkbox"/> o. PLASTIC CONTAINER	<input type="checkbox"/> p. IN MACH OR EQUIP	<input type="checkbox"/> q. TANK WAGON	<input type="checkbox"/> r. RAIL CAR	<input type="checkbox"/> s. TOTE BIN	<input type="checkbox"/> t. OTHER	26
STORAGE PRESSURE	<input checked="" type="checkbox"/> a. AMBIENT	<input type="checkbox"/> b. ABOVE AMBIENT	<input type="checkbox"/> c. BELOW AMBIENT	27																	
STORAGE TEMPERATURE	<input checked="" type="checkbox"/> a. AMBIENT	<input type="checkbox"/> b. ABOVE AMBIENT	<input type="checkbox"/> c. BELOW AMBIENT	<input type="checkbox"/> d. CRYOGENIC	28																

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

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

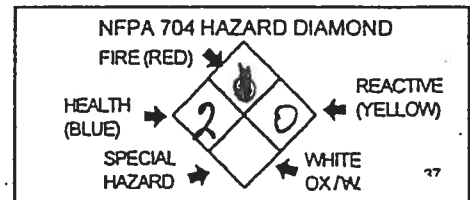
## PLACARDING INFORMATION

UNDOT # \_\_\_\_\_ 33  
 Refer to shipping papers or MSDS

DOT HAZARD CLASS \_\_\_\_\_ 34  
 Refer to shipping papers or MSDS

EPCRA  YES  NO 35

X \_\_\_\_\_ 36  
 If EPCRA, Please Sign Here



MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

**EMERGENCY NUMBERS:**

Sealed Air Corporation: (203) 791-3500 *For emergency and general information*  
8:30am-5:00pm, (Eastern Time), Monday-Friday

CHEMTREC: (800) 424-9300 *For Chemical Emergency - spill, leak, fire, exposure or accident*  
24 hours

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

Product Name: INSTAPAK® MOLDING FOAM COMPONENT "B"  
Chemical Name: Polyurethane Foam Resin  
Trade Name: Polyol  
Chemical Family: N.A.  
CAS No.: N.A.

**SECTION 2 - HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

Health Hazards: Irritating to eyes and skin. Inhalation may result in irritation.

Physical Hazards: No immediate hazard.

Medical Conditions Aggravated by Exposure: None known.

Appearance: Liquid can be a straw to amber color and have a clear to cloudy appearance. A slight amine odor may be present.

**Note:** Read the entire MSDS for a more thorough evaluation of the hazard information on this product.

**SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Hazardous Components</u>	<u>CAS No.</u>	<u>Wt. %</u>	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>
Amine Catalyst	Proprietary	≈ 2	Not Established	Not Established

This product is classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

**SECTION 4 - FIRST AID MEASURES**

Eye Contact: Flush with copious amounts of water for at least 15 minutes, holding lids open with fingers.

Skin Contact: Wash area thoroughly with soap and water. Launder contaminated clothing before reuse.

Inhalation: Remove patient from further exposure and obtain medical attention. Administer oxygen if necessary.

Ingestion: Drink water to dilute and obtain medical attention.

**Note to Physicians:** Symptomatic and supportive care as indicated.

**SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point: Product as supplied does not have a flash point. [Pensky-Martens Closed Cup]

Flammable limits (lower): Not applicable.

Flammable limits (upper): Not applicable.

Extinguishing Media: Carbon dioxide (CO<sub>2</sub>), chemical foam, dry chemical, water spray.

Fire Fighting Procedures: Firefighters should wear NFPA compliant protective equipment including a self-contained breathing apparatus, helmet, hood, boots and gloves. Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse.

Fire and Explosion Hazards: Chemical containers may burst under intense heat or pressure.

<u>NFPA Hazard Code:</u>	Health	2
	Flammability	1
	Reactivity	0
	Special Hazard	None

0=Minimal 1=Slight 2=Moderate 3=High 4=Extreme

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Evacuate area surrounding the spill and prevent further leakage, spillage or entry into drains. Eye and skin protection should be worn during spill cleanup and ventilation maintained. Contain and cover spill with loose absorbent (earth, sand, sawdust or other absorbent material) or absorbent pillows, pads or socks. Collect absorbed material in open containers or plastic bags. Dispose of spilled material properly.

**SECTION 7 - HANDLING AND STORAGE**

Storage Temperature: Min. 35°F (2°C) Max. 110°F (43°C)

Average Shelf Life: 12 months (when stored in original, unopened, sealed containers).

Special Sensitivity: None.

Precautions to be Taken in Handling and Storage: None.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure Limits: OSHA-PEL: Not Established

ACGIH-TLV: Not Established

<u>HMIS Hazard Code:</u>	Health	2
	Flammability	0
	Reactivity	0
	PPE	B

(Personal Protective Equipment) (B= safety glasses and gloves)

0=Minimal 1=Slight 2=Moderate 3=High 4=Severe



**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)**

Respiratory Protection: The use of respiratory protection should not be needed under normal use and handling conditions. If protection is chosen, an air purifying respirator, equipped with organic vapor cartridges, is appropriate.

Eye Protection: Safety glasses with side shields or goggles.

Protective Clothing: Chemical resistant butyl rubber, nitrile rubber, neoprene, or other suitable protective gloves.

Ventilation: Good general ventilation. For guidance on engineering controls refer to the ACGIH publication "Industrial Ventilation."

Other: Eyewash station and safety shower should be available. Refer to the "Recommendations for the Safe Use and Handling of Instapak® Foam-in-Place Chemicals" bulletin before handling Instapak® chemicals.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Liquid

Color: Light straw or amber

Odor: Slight amine

Vapor Density (Air = 1): > 1

Molecular Weight: Not applicable

Melting Point: Sets to a glass < -20°F (-29°C)

Boiling Point: >201°F (94°C)

Vapor Pressure: Not established (low)

Specific Gravity: 1.04 at 25°C

Bulk Density: 8.7 lbs/gal

% Volatile by Volume: Nil

Solubility in Water: Soluble

**SECTION 10 - STABILITY AND REACTIVITY**

Stability: Stable.

Polymerization: Will not occur.

Conditions to Avoid: None.

Incompatible Materials: Contact with isocyanates, unless mixed at the proper ratio, should not occur.

Hazardous Decomposition Products: By fire or extreme heat, oxides of carbon and nitrogen.

**SECTION 11 - TOXICOLOGICAL INFORMATION**Toxicity Data:

LD<sub>50</sub> Oral: Not Established

LD<sub>50</sub> Dermal: Not Established

LC<sub>50</sub> Inhalation: Not Established

Primary Route(s) of Exposure: Skin contact from liquid. Inhalation. However, overexposure is not expected under normal conditions.

**SECTION 11 - TOXICOLOGICAL INFORMATION (continued)**

Inhalation: Vapors may be irritating if hot.

Skin Contact: Repeated contact may be irritating.

Eye Contact: Can cause eye irritation. Permanent corneal injury is unlikely.

Ingestion: Ingestion is unlikely. Large quantities could cause irritation of mouth and stomach.

Chronic Effects: No applicable data.

Carcinogenicity: The ingredients of this product (>0.1%) are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSHA, and not listed as carcinogens by NTP.

Mutagenicity: No applicable data.

Reproductive Effects: No applicable data.

Teratogenicity and Fetotoxicity: No applicable data.

**SECTION 12 - ECOLOGICAL INFORMATION**

No applicable data for this section.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Incinerate or dispose of in accordance with existing federal, state and local environmental control regulations. This material is not a hazardous waste under RCRA 40 CFR 261 when discarded in its purchased form. Also see "Recommendations for the Safe Use and Handling of Instapak® Foam-in-Place Chemicals" bulletin for additional information concerning disposal of wastes and empty containers. Chemical waste, regardless of quantity, should never be poured into drains, sewers or waterways.

**SECTION 14 - TRANSPORT INFORMATION**

DOT: Not regulated.

IMO: Not regulated.

IATA/ICAO Class: Not regulated.

Reportable Quantity (RQ): Not applicable.

**SECTION 15 - REGULATORY INFORMATION**

TSCA Status: All ingredients are listed or are not required to be listed.

CERCLA Status: Discarded product is not a hazardous waste under RCRA, 40 CFR 261, when disposed of in its purchased form.

SARA 302 Extremely Hazardous Substances: None.

SARA 311/312 Hazard Categories: Immediate (acute) Health Hazard.

SARA 313 Listed Ingredient(s): None.

**SECTION 16 - OTHER INFORMATION**

Other Regulations/Legislation which apply to this product: Substances used to manufacture this product do not require listing under Massachusetts, New Jersey or Pennsylvania Right-to-Know regulations.

To the best of our knowledge, this product does not contain any of the listed chemicals which the state of California has found to cause cancer, birth defects or other reproductive harm.

Section(s) Revised: Company logo updated. Sections 2, 3, 5 and 8 revised.

Printed using vegetable based inks.

M-45

Rev. 1/2008



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.  
 CAL 000340788

BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As) 3.  
 EL-COM CABLETEK "EL-ROB"

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...	
<b>A. HAZARDOUS MATERIALS</b> 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?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 4.	<input checked="" type="checkbox"/> HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (Form 3)
<b>B. UNDERGROUND STORAGE TANKS (USTs)</b> 1. Own or operate underground storage tanks? 2. Intent to upgrade existing or install new USTs? 3. Need to report closing a UST?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 5. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 6. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 7.	<input checked="" type="checkbox"/> UST FACILITY (Formerly SWRCB Form A) <input checked="" type="checkbox"/> UST TANK (one page per tank) (Formerly Form B) <input checked="" type="checkbox"/> UST FACILITY <input checked="" type="checkbox"/> UST TANK (one per tank) <input checked="" type="checkbox"/> UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C) <input checked="" type="checkbox"/> UST TANK (closure portion-one page per tank)
<b>C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)</b> 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?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 8.	<input checked="" type="checkbox"/> NO FORM REQUIRED TO CUPAS
<b>D. HAZARDOUS WASTE</b> 1. Generate hazardous waste? 2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC §25143.2)? 3. Treat hazardous waste on site? 4. Treatment subject to financial assurance requirements (for Permit by Rule and Condition Authorization)? 5. Consolidate hazardous waste generated at a remove site? 6. Need to report the closure/removal of a tank that was classified waste and cleaned onsite?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 9. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 10. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 11. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 12. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 13. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 14.	<input checked="" type="checkbox"/> EPA ID NUMBER - provide at the top of this page <input checked="" type="checkbox"/> RECYCLABLE MATERIALS REPORT (one per recycler) <input checked="" type="checkbox"/> ONSITE HAZARDOUS WASTE TREATMENT - FACILITY (Formerly DTSC Forms 1772) <input checked="" type="checkbox"/> ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit) (Formerly DTSC Forms 1772A,B,C,D and L) <input checked="" type="checkbox"/> CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232) <input checked="" type="checkbox"/> REMOTE WASTE/CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 1196) <input checked="" type="checkbox"/> HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)
<b>E. LOCAL REQUIREMENTS</b> 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	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 15.	<input checked="" type="checkbox"/> REGULATED SUBSTANCE REPORTING FORM (Orange County CUPA)

**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.).

PAGING / VOCAL

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:

SOUTH PARKING LOT

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 area available at your business. (List below any mitigation procedures specific to your business, if any.)


**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.

AT THE FACILITY MANAGER DESK  
4-I

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: [Signature]  
Name: KEVE HAYEK  
Title: FACILITY MANAGER  
Date: 3.3.09