G.J. CHEMICAL COMPANY, INC. SAFETY DATA SHEET

1. PRODUCT IDENTIFIER

1.1 PRODUCT NAME ------ Glycol Ether DPM

PRODUCT NUMBER(S)----> 170700

TRADE NAMES AND SYNONYMS---> Dipropylene Glycol Monomethyl Ether (2-Methoxymethylethoxy)- propanol

CAS-No: 34590-94-8 CHEMICAL FAMILY: Glycol Ether

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

RECOMMENDED USE: Industrial: Solvent for cleaning agents and coating formulations (paints, inks and adhesives), Intermediate, Agrochemical uses, Use in laboratories, Functional Fluids, Metal working fluids, Water treatment chemicals, Distribution, Use in mineral ore floatation, USES ADVISED AGAINST: No information available

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company: G.J. CHEMICAL CO., INC.

Address: 40 VERONICA AVENUE

SOMERSET, NJ 08873

Telephone: 1-973-589-1450 Fax: 1-973-589-3072

1.4 Emergency Telephone Number

Emergency Phone: 1-800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29CFR 1910 (OSHA HCS) Flammable liquids (Category 4), H227

2.2 GHS Label elements, including precautionary statements

Pictogram none

Signal word: WARNING

Hazard statement(s)
H227 Combustible liquid

Precautionary statement(s)

Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. INGREDIENTS

3.1 SUBSTANCE:

Ingredient	CAS No.	% by V Range		CLASSIFICATION
(2-Methoxymethylethoxy)- 34590 propanol EC-No. 252- RegNo. 01-2119450011-60-2	104-2	 99 	 Flam 	mable liquids (Category 4), H227

MIXTURE: Not applicable

4. FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

INHALATION: Dipropylene Glycol Methyl Ether

**FIRST AID- Remove from exposure area to fresh air
immediately. If breathing has stopped, perform artificial respiration.

Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.

SKIN CONTACT: Dipropylene Glycol Methyl Ether

**FIRST AID- Remove contaminated clothing and shoes immediately. Wash affected area with waterless cleaner first then soap and large amounts or water until no evidence of chemical remains (approximately 15-20 minutes). Get medical attention immediately.

EYE CONTACT: Dipropylene Glycol Methyl Ether

**FIRST AID- Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15-20 minutes). Remove contact lenses, if worn, after initial flush. Consult a physician if irritation persists.

INGESTION: Dipropylene Glycol Methyl Ether

**FIRST AID- Do not induce vomiting unless directed to do so by medical personnel. Risk of damage to lungs exceeds poisoning risk.

Never give anything by mouth to an unconscious person. Have patient drink several glasses of water. Consult a physician or poison control center, treat symptomatically.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Eve: Moderate irritation, including tearing, redness and swelling;

Skin: Slightly irritating with prolonged contact;

<u>Inhalation</u>: No significant signs or symptoms indicative of any adverse health hazard.

<u>Ingestion</u>: No significant signs or symptoms indicative of any adverse health

<u>Chronic</u>: Repeated inhalation and ingestion can lead to central nervous system, kidney and liver disturbances.

<u>Medical Conditions Aggravated by Exposure</u>: Any pre-existing disorders of the eye.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Specific details on antidote: No recommendation given.

5. FIRE FIGHTING MEASURES

Flash Point: 74°C (165°F) TCC LEL %: 1.1% (V) Auto-ignition Temp: 207°C (405°F) UEL %: 14% (V)

UNIFORM FIRE CODE: Combustible Liquid: III-A

5.1 SUITABLE EXTINGUISHING MEDIA: Foam--> x CO2--> x Dry Chemical-->

x Water-fog--> x Other-->

Unsuitable extinguishing media: Do not use waterjet.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR

MIXTURE: Above the Flash Point explosive vapor/air mixtures may be formed.

<u>CONDITIONS OF FLAMMABILITY:</u> Flammable in the presence of a source of ignition when the temperature is above the flash point.

<u>HAZARDOUS COMBUSTION PRODUCTS:</u> Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, carbon oxides and other unidentified organic compounds evolve when this material undergoes combustion.

5.3 ADVICE FOR FIREFIGHTERS: Shut off source. Keep unnecessary people away; isolate hazard area and deny entry. Avoid breathing vapors, stay upwind Do not spray pool fires directly. A solid stream of water or foam directed into hot burning liquid can cause frothing. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. For massive fire in cargo area, use unmanned hose holder or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire. Cool containers with flooding amounts of water from as far a distance as possible. Wear NIOSH/MSHA approved self-contained breathing apparatus (SCBA) for confined spaces. Use full fire-fighting protective clothing. If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Eliminate ignition sources in the vicinity of the spill or released vapor. Immediately evacuate all nonessential people. Verify that responders are

properly trained and wearing appropriate respiratory equipment and fire resistant protective clothing during cleanup operations.

6.2 ENVIRONMENTAL PRECAUTIONS:

Keep out of water sources, drains and sewers. Do not flush into surface water or sanitary sewer system

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Methods for cleanup and containment:

Use explosion proof equipment. Shut off valves, contain spill, keep out of water sources and sewers, for smaller spills add non-flammable absorbent such as clay or silica in spill area. For large spills use foam on spill to minimize vapors clean up by vacuuming then using non-flammable absorbent. Remove contaminated soil to remove contaminated trace residues.

Methods for disposal:

Place all saturated absorbent, using non-sparking tools, in an approved container for disposal. Flush with water to remove trace reside. Minimize breathing vapors and skin contact, ventilate confined areas, open all windows and doors, assure conformity with applicable government regulations. Keep all nonessential people away.

6.4 REFERENCE TO OTHER SECTIONS: See Sections 8 and 13.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING: Liquid evaporates and forms vapor (fumes), which can catch fire and burn. Invisible vapor spreads easily and can be set on fire by many sources, such as pilot lights, welding equipment, and electrical motors and switches. Vapor is heavier than air and can travel considerable distance to a source of ignition and flash back. Avoid breathing vapors in top of shipping container. Use with adequate ventilation. Avoid prolonged or repeated contact with eyes, skin and clothing. Do not take internally. Avoid breathing vapors in top of shipping container. Avoid work practices that may release volatile components in the atmosphere. Avoid contaminating soil or releasing material into sewage and drainage systems. Use non-sparking tools to open or close containers.

Advice on general occupational hygiene:

Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs. When using do not smoke.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Follow maximum allowed pile heights specified in the BOCA codes or the NFPA manual. Local fire authorities should be notified for storage of this material in any quantity. Local permits are required for storage in warehouse quantities. Recommended storage temperature: 15 - 25°C. Store large quantities only in buildings designed to comply with OSHA 1910.106. Keep containers tight and upright to prevent leakage. Do not store with incompatible materials. Keep containers closed when not in use.

<u>CONTAINER WARNINGS</u>: Containers should be Bonded and Grounded when pouring. Avoid free fall of liquid in excess of a few inches. Empty containers release residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, or expose such containers to heat, sparks, static electricity or other sources of ignition. Do not attempt to clean. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner.

7.3 SPECIFIC END USES: Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROL (PERSONAL PROTECTION)

8.1 CONTROL PARAMETERS:

Ingredient	CAS No.	% by WT. Range	Exposure Limits
(2-Methoxymethylethoxy)- 345 propanol EC-No. 25 RegNo. 01-2119450011-6	52-104-2	 98-99.5 	 100ppm TWA (ACGIH) 150ppm STEL (ACGIH) 100ppm TWA (OSHA) 100ppm TWA (NIOSH) 150ppm STEL (NIOSH)

Key: (PEL) = Permissible Exposure Limit OSHA

(TLV) = Threshold Limit Value OSHA & ACGIH (STEL) = Short Term Exposure Limit ACGIH

(WEEL) = USA. Workplace Environmental Exposure Levels

(TWA) = Time Weighted Average

CAS = Chemical Abstracts Registry Number IDLH = Immediate Danger to Life and Health

N.E. =None Established

8.2 EXPOSURE CONTROLS

<u>EXPOSURE GUIDELINES</u>: Consider the potential hazards of this material (Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended.

<u>ENGINEERING CONTROLS</u>: Provide general dilution or local exhaust ventilation in volume and pattern to keep concentrations within permitted exposure limits. All areas should be ventilated in accordance with OSHA Regulation 29 CFR Part 1910. Explosion proof motors should be used in mechanical ventilation.

<u>RESPIRATORY PROTECTION</u>: The specific respirator selected must be based on contamination levels found in the work place, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA):

For vapor concentrations 1 to 10 times OSHA TWA or PEL an air supplied NIOSH/MSHA Approved respirator with full face-piece and organic vapor cartridges. For concentrations over 10 times OSHA TWA or PEL and in confined areas use a approved positive pressure full face-piece supplied air respirator (SCBA).

<u>BODY CLOTHING</u>: Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged contact with this substance. Use chemical resistant apron or other impervious clothing. Remove and wash contaminated clothing before reuse.

<u>SKIN PROTECTION</u>: Employee must wear appropriate protective gloves to prevent contact with this substance.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 30 min

<u>HYGIENE</u>: Use good personal hygiene practices, wash hands before eating, drinking, smoking or using toilet facilities.

EYE/FACE PROTECTION: Use safety eyewear with splash-guards or face shield. Emergency shower and eyewash should be easily accessible to the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Glycol Ether DPM 34590-94-8

APPEARANCE: Clear liquid COLOR: Colorless

ODOR: Ether-like odor
ODOR THRESHOLD: No data Available
pH: No data available

MOLECULAR WEIGHT: 148.2 amu
MELTING POINT: -83°C (-117°F)
BOILING POINT: 190°C (374°F)
SPECIFIC GRAVITY: 0.95@20°C

DENSITY (25°C): 0.954 g/ml @25°C

VAPOR PRESSURE: 0.4 mm Hg @ 25°C (77.0°F)

VAPOR DENSITY: No data available

WATER SOLUBILITY: Complete

PARTITION COEFFICIENT N- log Pow: 0.004 at 25°C (77°F)

OCTANOL/WATER

FLASH POINT: 74°C (165°F) - closed cup

EVAPORATION RATE (BUTYL ACETATE=1): >0.01

UPPER FLAMMABILITY LIMIT: 14% (V)

LOWER FLAMMABILITY LIMIT: 1.1% (V)

AUTO INGNITION TEMPERATURE: 207°C (405°F)

DECOMPOSITION TEMPERATURE: No data available

VISCOSITY: No data available

EXPLOSIVE PROPERTIES: No data available

OXIDIZING PROPERTIES: No data available

9.2 OTHER INFORMATION:

Surface tension: 68.7 mN/m at 20 °C (68 °F)

10. STABILITY AND REACTIVITY INFORMATION

- 10.1 **REACTIVITY**: No data available.
- 10.2 CHEMICAL STABILITY: Unstable () Stable (X)
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS: No data available

<u>HAZARDOUS POLYMERIZATION:</u> May occur () Will not occur (X)

- 10.4 <u>CONDITIONS TO AVOID</u>: Heat, Sparks, Pilot Lights, Static Electricity, and Open Flame.
- 10.5 <u>INCOMPATIBLE MATERIALS</u>: Strong oxidants such as liquid chlorine, oxygen, sodium hypochlorite, inorganic acids e.g. hydrochloric acid, hydrogen peroxide.
- 10.6 <u>HAZARDOUS DECOMPOSITION PRODUCTS</u>: Fumes, Smoke, Carbon Monoxide, Aldehydes and other decomposition products where combustion is not complete.

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

Routes of Entry: Inhalation--> x Skin--> x Ingestion--> x Eye--> x

ACUTE HEALTH EFFECTS:

Effects of overexposure:

Eye> Moderate irritation, including tearing, redness and swelling;

Skin> Slightly irritating with prolonged contact;

Inhalation> No significant signs or symptoms indicative of any adverse health hazard.

Ingestion> No significant signs or symptoms indicative of any adverse health hazard.

Chronic: Repeated inhalation and ingestion can lead to central nervous system, kidney and liver disturbances.

Medical Conditions Aggravated by Exposure> Any pre-existing disorders of the eye.

ACUTE TOXICITY:

The effects of overexposure shown in Section II are based on acute toxicity profiles. Typical values are:

Ingredient	Oral LD50 (Rat)	Skin LD50 (Rabbit)	Inhalation LC50
Glycol Ether DPN	 /I 5152mg/kg 	 No Data 	No Data

SKIN CORROSION/IRRITATION: Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404)

SERIOUS EYE DAMAGE/EYE IRRITATION: Eyes - Rabbit Result: Mild eye irritation - 24 h Eyes - Rabbit Result: No eye irritation (Draize Test)

RESPIRATORY OR SKIN SENSITIZATION: No data available

MUTAGENIC EFFECTS: No data available

Chromosome aberration test in vitro Chinese hamster lung cells Result: negative

CARCINOGEN STATUS:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Specific target organ toxicity (STOT-SE) - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity (STOT-RE) - repeated exposure (Globally Harmonized System): no data available

REPRODUCTIVE TOXICITY: No data available

ASPIRATION HAZARD: No data available

ADDITIONAL DATA: Repeated dose toxicity Rat - male and female - Oral - NOAEL

: 1,000 mg/kg

RTECS: JM1575000

12. **ECOLOGICAL INFORMATION**

12.1 AQUATIC TOXICITY:

This material is highly soluble in water. This material should exhibit low toxicity to aquatic organisms and to rats.

Toxicity to fish

LC50 - Poecilia reticulata (guppy) - > 1,000 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 1,919 mg/l - 48 h

(OECD Test Guideline 202)

Toxicity to algae:

EC50 - Pseudokirchneriella subcapitata - > 969 mg/l - 72 h Growth inhibition (OECD Test Guideline 201)

(0202 1001 0414011110 201)

12.2 PERSISTANCE AND DEGRADABILITY:

12.3 <u>BIOACCUMULATIVE POTENTIAL</u>: This material is highly soluble in water and should not bio-accumulate in aquatic or terrestrial organisms. The noctanol/water coefficient is log Pow: -0.06 at 20 °C (68 °F).

Biological Oxygen Demand (BOD): No data available

Bio-concentration Factor (BCF): no data available

12.4 MOBILITY IN SOIL: No data available

12.5 RESULTS OF PBT AND vPvB:

PBT assessment results: This substance is not classified as PBT or vPvB.

12.6 OTHER ADVERSE EFFECTS: No data available.

13. **DISPOSAL CONSIDERATIONS**

13.1 <u>WASTE TREATMENT METHODS:</u> Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly it is the responsibility of the user to determine the proper storage, transportation, treatment and or disposal methodologies for spent materials and residues at time of disposition. Dispose in accordance with all applicable disposal regulations.

CONTAMINATED PACKAGING: Dispose of as unused product.

The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14. TRANSPORT INFORMATION

Land Transport (DOT)
14.1 USDOT ID Number> NA1993
14.2 USDOT Shipping Name Combustible liquid, n.o.s.
((2Methoxymethylethoxy)propanol)
14.3 USDOT Hazard Classification> Combustible Liquid, n.o.s.
USDOT Label Codes> N/A
14.4 USDOT Package Code> III
14.5 Marine Pollutant> No
14.6 Special precautions for user> None
Emergency Response Guide> 128
Sea Transport (IMDG)
14.1 UN Number:> N/A
14.2 Proper Shipping Name> Not Dangerous Goods
14.3 Hazard Class:> N/A
USDOT Label Codes> N/A
14.4 Packing Group:> N/A
14.5 Marine Pollutant> No
Air Transport (IATA)
14.1 UN Number:> N/A
14.2 Proper Shipping Name:> Not Dangerous goods
14.3 Hazard Class:> N/A
USDOT Label Codes> N/A
14.4 Packing Group:> N/A
14.5 Environmental hazard> No
AR DECLUATORY INFORMATION

15. <u>REGULATORY INFORMATION</u>

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

SARA TITLE III (Superfund Amendment and Reauthorization Act)

SECTION 302 AND 304: Extremely Hazardous Substance List (40 CFR 355) - Not Listed

SECTION 313: Toxic Chemicals Listing (40 CFR 372.65) - Not Listed

SECTION 311/312: Hazard Categorization (40 CFR 370) - Chronic Health Hazard, Fire Hazard

<u>CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)</u>

SECTION 102(A) Hazardous Substances (40 CFR 302.4) - Not Listed

Reportable Quantity – None

SECTION 101(14) Reportable Quantity: None

Massachusetts Right to Know Components (2-Methoxymethylethoxy) propanol CAS-No.34590-94-8 **Pennsylvania Right to Know Components** (2-Methoxymethylethoxy) propanol CAS-No.34590-94-8 **New Jersey Right to Know Components** (2-Methoxymethylethoxy) propanol CAS-No.34590-94-8

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA (Toxic Substance Control Act)

(2-Methoxymethylethoxy) propanol CAS-No.34590-94-8 is listed on the TSCA Inventory.

International Inventories:					
Country or Region	Inventory Name On inventory y	<u>es/no</u>			
Austrolia	Australian Inventory of Chamical Substances (AICS)	Yes			
<u>Australia</u>	Australian Inventory of Chemical Substances (AICS)				
<u>Canada</u>	Domestic Substances List (DSL)	Yes			
<u>Canada</u>	Non-Domestic Substances List (NDSL)	No			
<u>China</u>	Inventory of Existing Chemical Substances in China (IECSC)	Yes			
<u>Europe</u>	European Inventory of Existing Commercial Chemicals	Yes			
	Substances (EINECS)				
<u>Europe</u>	European List of Notified Chemical Substances (ELINCS)	No			
<u>Japan</u>	Inventory of Existing and New Chemical Substances (ENCS)	Yes			
<u>Japan</u>	Industrial Safety & Health Law Inventory (ISHL)	Yes			
<u>Korea</u>	Existing Chemicals List (ECL)	Yes			
<u>Mexico</u>	National Inventory of Chemical Substances (INSQ)	Yes			
New Zealand	New Zealand Inventory	Yes			
<u>Philippines</u>	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes			
<u>Switzerland</u>	Inventory of Notified New Substances (CHINV)	Yes			
<u>Taiwan</u>	National Existing Chemical Inventory (NECI)	Yes			
United States &	Toxic Substances Control Act Inventory	Yes			
Puerto Rico					

15.2 CHEMICAL SAFETY ASSESSMENT: A chemical safety assessment has been carried out for this substance.

16. OTHER INFORMATION:

HMIS (Hazardous Materials Identification System)

Hazard Rating:

4-Extreme

3-High

2-Moderate 1-Slight 0-Insignificant

NFPA RATINGS (SCALE 0-4): Health=0 Fire=2 Reactivity=0

HMIS RATINGS (SCALE 0-4): Health=1 Fire=2 Reactivity=0 PPE=G

Hazard statement(s) from Section 2 and 3:

H227 Combustible liquid

Date of preparation-----> October 30, 2002

Revision Number----> 1.8

Revision Content-----> Updated Sections: 1, 4, 8, 10, 11, and 16.

Revision Date-----> May 7, 2019

Prepared by-----> T.G. Fenstermaker Jr.

Acronyms:

ACGIH - American Conference of Governmental Industrial Hygenists

AIHA - American Industrial Hygiene Association
ANSI - American Nation Standards Institute

API - American Petroleum Institute

CERCLA - Comprehensive Emergency Response, Compensation, and Liability Act

DOT - U.S. Department of Transportation
 EPA - U.S. Environmental Protection Agency
 HMIS - Hazardous Materials Information System
 IARC - International Agency For Research On Cancer

MSHA - Mine Safety and Health Administration NFPA - National Fire Protection Association

NIOSH - National Institute of Occupational Safety and Health

NOIC - Notice of Intended Change (Proposed change to ACGIH TLV)

NTP - National Toxicology Program
OPA - Oil Pollution Act of 1990

OSHA - U.S. Occupational Safety & Health Administration

PEL - Permissible Exposure Limit (OSHA)
RCRA - Resource Conservation and Recovery Act
REL - Recommended Exposure Limit (NIOSH)

SARA - Superfund Amendments and Reauthorization Act of 1986 Title III

SCBA - Self-Contained Breathing Apparatus

STEL - Short-Term Exposure Limit (generally 15 minutes)

TLV - Threshold Limit Value

TSCA - Toxic Substances Control Act TWA - Time Weighted Average (8hr.)

WHMIS - Canadian Workplace Hazardous Materials Information System

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