

FLAME RETARDANT EPOXY

**833FRB-PART B**

# Safety Data Sheet

## Section 1: Product and Company Identification

### Product Identifier and Other Means of Identification

**Product Name:** Flame Retardant Epoxy Encapsulating and Potting Compound**MSDS Code:** 833FRB-Part B**Related Part #:** 833FRB-375ML; 833FRB-3L; 833FRB-60L

### Recommended Use and Restriction on Use

**Use:** Hardeners for use with epoxy resin to pot devices or encapsulate components**Uses Advised Against:** Not for use as a spray coating

### Details of Manufacturer or Importer

#### Manufacturer

MG Chemicals  
1220 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADA

MG Chemicals (Head Office)  
9347-193 Street  
Surrey, British Columbia V4N 4E7  
CANADA

☎ 1-800-340-0772

FAX 1-800-340-0773

E-MAIL: [support@mgchemicals.com](mailto:support@mgchemicals.com)WEB [www.mgchemicals.com](http://www.mgchemicals.com)

☎ 1-905-331-1396

FAX 1-905-331-2682

E-MAIL: [info@mgchemicals.com](mailto:info@mgchemicals.com)E-MAIL (Competent Person): [sds@mgchemicals.com](mailto:sds@mgchemicals.com)

### Emergency Phone Number

#### Emergency Contact

USA or CANADA: Call CHEMTREC ☎: 1-800-424-9300

(For hazardous material incidents **ONLY**—leaks, spills, fires, exposures or accidents)

CANADA: Call CANUTEC ☎: 1-613-996-6666 or \*666 on cellular phones, Collect 24/7

(For emergencies involving dangerous goods)

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**Section 2: Hazards Identification**

**Classification of Hazardous Chemical**

**WHMIS Classification**



E – Corrosive; D1B Immediately Toxic (Skin Absorption); D2A – Very Toxic Material (Carcinogen IARC Class 2B); D2B – Toxic Material (Skin Sensitization in Humans)

**Note:** The possible carcinogenicity warning applies to inhalable dust. Aerosolization and misting should be avoided and are not expected to occur for normal uses.

**GHS Pictograms**



Signal Word  
WARNING

**GHS Categories**

Criteria		Category	Signal Word	Pictograms
Serious Eye Damage		1B	Danger	
Skin Corrosion		1	Danger	
Sensitization	Skin sensitizer	1	Warning	
Acute Toxicity	Dermal	4	Warning	
Carcinogenicity		2	Warning	
Environmental Hazard	Acute Aqua. Tox.	2	—	No Symbol Mandated
Environmental Hazard	Chronic Aqua. Tox.	3	—	

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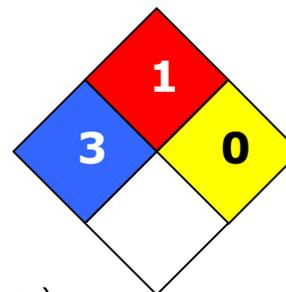
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**HMIS® RATING**

<b>HEALTH:</b>	<b>3</b>
<b>FLAMMABILITY:</b>	<b>1</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

**NFPA® 704 CODES**



*Approximate HMIS and NFPA Risk Ratings Legend:*

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

**Label Elements**

<b>Signal Word</b>	<b>DANGER</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H314: Causes severe skin burns and eye damage
	H312: Harmful in contact with skin H317: May cause an allergic skin reaction
	H351: Suspected of causing cancer
	H412: Harmful to aquatic life with long lasting effects
	<b>Precautionary Statements</b>
	P102: Keep out of reach of children. P260 + P271: Do not breathe fume/gas/vapors/spray. Use only outdoors or in well ventilated area. P280: Wear protective gloves/eye protection P305 + P351 + P358: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302 + P352 + P361 + P353: IF ON SKIN: Wash with plenty of water. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. P310: Immediately call a POISON CENTER or doctor

**FLAME RETARDANT EPOXY****833FRB-PART B****Other Hazards**

Not applicable

**Exposure Routes and Symptoms Summary**

<b>Eyes</b>	Causes severe eye damage or irritation. Also cause eye redness or pain.
<b>Skin</b>	Cause serious severe skin irritation or burns. May cause allergic skin reactions. Triethylenetetramine can be absorbed through skin leading to toxic effects.
<b>Inhalation</b>	Inhalation of vapors or mist may cause irritation to the nose, throat and lungs (upper respiratory tract).  When heated, hot triethylenetetramine vapors may cause itching of the face, skin redness (erythema) and swelling (edema).
<b>Ingestion</b>	May cause severe irritation or corrosive burns to the mouth, throat, esophagus, and stomach. May cause allergic reactions.
<b>Chronic</b>	Prolonged or repeated exposure to the uncured epoxy hardener may cause sensitization (allergies).  Long term inhalation exposure to carbon black or antimony trioxide dust may cause cancer.

**Section 3: Hazardous Ingredients**

<b>CAS #</b>	<b>Chemical Name</b>	<b>Wt%</b>
68410-23-1	dimer fatty acid (C18)poly amido amine resin	63-70%
84852-53-9	1,1'-(1,2-ethanediyl) bis[2,3,4,5,6-pentabromo-benzene	16-18%
112-24-3	triethylenetetramine	10-12%
1309-64-4	antimony trioxide	6-7%
108-65-6	2-methoxy-1-methylethyl acetate	0.5-1.5%
8052-41-3	stoddard solvent; Low boiling point naphtha	0.1-1%
64741-65-7	naphtha, petroleum, heavy distillate	0.1-1%
1333-86-4	carbon black	0.1-1%

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**Section 4: First Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
<b>IF IN EYES</b>	P305
<b>Symptoms</b>	Immediate: <i>burns, severe irritation, redness, pain</i>
<b>Response</b>	P351: Rinse cautiously with water for several minutes. P338: Remove contact lenses, if present and easy to do. Continue rinsing. P310 : Immediately call a POISON CENTRE/doctor
<b>IF ON SKIN</b>	P302
<b>Symptoms</b>	Immediate: <i>burns, blistering, tears, redness, pain</i>
<b>Response</b>	P352: Wash with plenty of water. P361: Take off immediately all contaminated clothing. P353 + P362: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. P310 : Immediately call a POISON CENTRE/doctor
<b>IF INHALED</b>	P304 ( <i>Not a likely route of exposure under normal use</i> )
<b>Symptoms</b>	Immediate: <i>burning sensation, irritation, cough</i>
<b>Response</b>	P340: Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.
<b>If feeling unwell</b>	P312: Call a POISON CENTRE/doctor
<b>IF SWALLOWED</b>	P301 ( <i>Not a likely route of exposure under normal use</i> )
<b>Symptoms</b>	Immediate: <i>burns, abdominal pain, irritation, nausea, vomiting, diarrhea</i>
<b>Response</b>	P330: Rinse mouth. P331: Do NOT induce vomiting.
<b>If feeling unwell</b>	P312: Call a POISON CENTRE/doctor

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**Section 5: Fire Fighting Measures**

<b>Autoignition Temperature</b>	Not Established	<b>Flash Point</b> <sup>a)</sup>	>122 °C [>252 °F]	<b>LFL [LEL]</b> <sup>b)</sup>	Not Established
				<b>UFL [UEL]</b>	Established

<b>In case of fire</b>	P370
<b>Response</b>	P378: Use dry chemical, carbon dioxide, or chemical foam to extinguish. Use water spray to cool containers.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ), hydrogen bromide (HBr), bromines, and toxic fumes.
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus for fire fighting
<b>General Information</b>	Liberates toxic gases at temperature greater than 320 °C [608 °F]. Will burn if involved in a fire, but it will self extinguish when removed from external flame sources. Prevent fire-fighting wash from entering waterway or sewer system.

*Note:* The GHS codes and the GHS precaution statements are used. The format is *GHS Codes: Statements.*

a) Supplier value for the component with the lowest know flash point

b) LFL = Lower Flammability [or Explosion] Limit (in volume %);  
UFL = Upper Flammability [or Explosion] Limit (in volume %)

**Section 6: Accidental Release Measures**

**Personal Protection:** See Section 8. Avoid breathing the mist/vapors.

**Containment** Remove all sources of ignition. Prevent spill from entering drains and waterways.

**Cleaning** Collect liquid in a sealable, solvent-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe up further residue with paper towel wetted with alcohol (or other suitable organic solvent) and place dirty towels in container. Wash spill area with soap and water to remove the last traces of residue.

**RECOMMENDATION:** Use a plastic, stainless steel, or carbon steel container.

**Disposal** Dispose of spill waste according to Section 13.

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**Prevention** P262: Do not get in eye, on skin, or on clothing.

P261 + P271 + P284: Avoid breathing fume/vapors. Use only outdoors or in well ventilated area. In cases of inadequate ventilation wear respiratory protection.

P270: Do not eat, drink, or smoke when using this product.

**RECOMMENDATION:** Protect from high heat. Do NOT process in a fashion that causes mist or fumes.

**Handling** P280: Wear protective gloves/clothing/eye protection.

P264: Wash hands thoroughly after handling.

**Storage** P403 + P233+ P235: Keep Container tightly closed. Store in a well-ventilated area. Keep cool.

**RECOMMENDATION:** Keep in a dry and clean area, away from incompatible substances.

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**Section 8: Exposure Controls/Personal Protection**

**Routes of Entry**

Eyes, ingestion, inhalation, and skin

**Substances with Occupational Exposure Limit Values**

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
carbon black <sup>a)</sup>	ACGIH	3.5 mg/m <sup>3</sup>	—
	U.S.A. OSHA PEL	3.5 mg/m <sup>3</sup>	—
	Canada AB	3.5 mg/m <sup>3</sup>	—
	Canada BC	3 mg/m <sup>3</sup>	—
	Canada ON	3.5 mg/m <sup>3</sup>	—
	Canada QC	3.5 mg/m <sup>3</sup>	—
triethylenetetramine	ACGIH	—	—
	U.S.A. OSHA PEL	—	—
	U.S.A. (WEEL)	1 ppm	—
	Canada ON <sup>a)</sup>	0.5 ppm	—
2-methoxy-1-methylethyl acetate	ACGIH	50 ppm	—
	U.S.A. OSHA PEL	50 ppm	75 ppm
	Canada BC	50 ppm	75 ppm
	Canada ON	50 ppm	—
antimony trioxide <sup>a)</sup>	Vendor recommendation	b)	—

*Note:* Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>2</sup>, OSHA, and Canadian provinces exposure limits were consulted. Limits from by RTECS database<sup>1</sup> of the Canadian Centre for Occupational Health and Safety (CCOHS) a data from suppliers' SDS were also consulted. Short term exposure limits (STEL) are usually for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) Respirable airborne particles.

b) Keep airborne concentration as low as possible.

**Engineering Controls**

**Ventilation**

Keep airborne concentrations below exposure limits. Because carbon black is bound to the liquid mixture; the airborne hazard is present only if the conditions of use result in aerosolization or misting.

**RECOMMENDATION:** If the product is heated at high temperatures or worker has a known allergic reaction, consider using a full mask with organic vapor cartridges.

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**Personal Protective Equipment**

**Eye protection**

Wear appropriate protective eyeglasses or chemical safety goggles.

**RECOMMENDATION:** Use safety glasses with lateral protection (side shields).

**Skin Protection**

Wear appropriate protective clothing to prevent skin contact.

**RECOMMENDATION:** Use of protective gloves in butyl rubber, latex, neoprene, or other chemically resistant gloves.

**Respiratory Protection**

If exposed to mist, wear respirator such as a half-mask respirator.

**RECOMMENDATION:** Consult your local safety supply store to ensure your respirator has filter cartridges appropriate for the ingredients listed in section 3 of this MSDS, and that the respirator is fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

**General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.

**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Odor</b>	Amonia like	<b>Odor Threshold</b>	Not established
<b>Appearance</b>	Black	<b>Specific Gravity</b>	1.18	<b>Freezing Point</b>	Not established
<b>Boiling Point</b>	Not established	<b>Vapor Pressure @ 20 °C</b>	< 1 mmHg	<b>Evaporation Rate</b>	Not established
<b>Auto-ignition Temperature</b>	Not established	<b>Flash Point<sup>a)</sup></b>	>142°C [>288 °F]	<b>Vapor Density</b>	5 (Air = 1)
<b>Lower Flammability Limit</b>	Not established	<b>Upper Flammability Limit</b>	Not established	<b>Decomposition Temp.</b>	Not available
<b>Viscosity @25 °C</b>	7900 cSt	<b>Partition Coefficient</b>	Not established	<b>Solubility in Water</b>	Negligible
<b>pH</b>	Not available				

a) The closed cup flash point values are based on the alkyl glycidyl ether resin component.

**FLAME RETARDANT EPOXY****833FRB-PART B****Section 10: Stability and Reactivity**

<b>Stabilities</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Ignition sources, excessive heat (above 320 °C [608 °F]), and incompatible substances. Do not use in a way that forms a mist or aerosolize the product.
<b>Incompatibilities</b>	Strong oxidizing agents, strong acids, strong bases. <i>Note:</i> React with amines.
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5

**Section 11: Toxicological Information****Routes of Exposure**

Eyes, ingestion, inhalation, and skin

<b>Skin corrosion/irritation</b>	Triethylenetetramine (CAS# 112-24-3) can cause skin burns.
<b>Serious eye damage/irritation</b>	Triethylenetetramine (CAS# 112-24-3) can cause severe eye damage.
<b>Sensitization</b> (allergic reactions)	The epoxy hardener components (CAS# 68082-29-1, and 112-24-3) may cause skin sensitization in humans
<b>Carcinogenicity</b> (risk of cancer)	<b>ANTIMONY TRIOXIDE [1309-64-4]</b> (See Note A) IARC Group 2B: Possibly carcinogenic to humans. This finding is based on a long term dust inhalation study for female rats. ACGIH A2: Suspected human carcinogen causing lung cancer CA Prop 65: Listed as a carcinogen NTP: Not listed <b>CARBON BLACK [1333-86-4]</b> (See Note A) IARC Group 2B: Possibly carcinogenic to humans. This finding is based long term on dust inhalations studies on rats. ACGIH A4: Not classified as a human carcinogen CA Prop 65: Listed as a carcinogen NTP: Not listed

**Note A:** Carbon black and antimony trioxide are not considered volatile in the liquid part or in the final product; therefore, the inhalation hazard applies to intentional aerosolization, misting, or to possible dust from grinding and cutting of the final cured epoxy product.

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<b>Mutagenicity</b> (risk of heritable genetic effects)	Data does not give rise to classification. Antimony trioxide damages human DNA at 0.12 ng/L 1 y
<b>Reproductive Toxicity</b> (risk to sex functions)	No data available
<b>Teratogenicity</b> (risk of fetus malformation)	No data available
<b>STOT-single exposure</b>	No data available
<b>STOT-repeated exposure</b>	No data available
<b>Aspiration hazard</b>	Viscosity at 40 °C is >>20.5 mm <sup>2</sup> /s, thus not classified as aspiration hazard.

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>	<b>TCLo inhalation</b>
fatty acids, C18-unsatd., dimers,... (CAS# 68410-23-1)	>5 000 mg/kg a)	>5 000 mg/kg a)	Not established	Not established
1,1'-(1,2-ethanediyl) bis[2,3,4,5,6-pentabromo-benzene	>5 000 mg/kg Rat <sup>a)</sup>	>2 000 mg/kg Rabbit <sup>a)</sup>	Not available	Not available
triethylenetetramine	2 500 mg/kg Rat	805 g/kg Rabbit	Not established	Not established
antimony trioxide	>34 600 mg/kg Rat	>2 000 mg/kg Rabbit	Not available	Not available
2-methoxy-1-methylethyl acetate	8 532 mg/kg Rat	>5 g/kg Rabbit	Not available	1 105 mg/m <sup>3</sup> 4 h Rat
naphtha, petroleum, heavy alkylate	34 600 mg/kg Rat <sup>a)</sup>	15 400 mg/kg Rabbit <sup>a)</sup>	>3 684 ppm 4h Rat <sup>a)</sup>	Not available
carbon black	>15 g/kg Rat	>3 g/kg Rabbit	N/E	1.6 mg/m <sup>3</sup> 7 h Rat

*Note:* Representative toxicity data from by RTECS database of the Canadian Centre for Occupational Health and Safety (CCOHS)<sup>1</sup> data from supplier MSDS were also consulted.

a) Data from supplier MSDS

**FLAME RETARDANT EPOXY****833FRB-PART B****Section 12: Ecological Information**

The ecotoxicity of the mixture was estimated by the calculation method using the summation of classified ingredients. The IMDG Code criteria and the raw-material MSDS along with supporting data for the classification of registered substances from the European Chemical Agency database (<http://echa.europa.eu>) were used.

The fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines (CAS# 68410-23-1) was classified as an acute category 2 environmental toxicant due to supplier reported LC50 range of 1–10 mg/L for fish.

Literature for the Triethylenetetramine (CAS # 112-24-3) suggest low aquatic toxicity (LC50, IC50, and EC50 values of >100 mg/L for fish and between 10 and 100 for algae).

Antimony trioxide (CAS#1309-64-4) has a LC50 of 833 mg/L for flathead minnow (*pimpehales promelas*) 96 h.

**Acute Ecotoxicity**

Category 2

*GHS Code: Hazard Statement*

H401: Toxic to aquatic life

**Chronic Ecotoxicity**

Category 2

*GHS Code: Hazard Statement*

H412: Harmful to aquatic life with long lasting effects

P273: Avoid release to the environment

P391: Collect spillage

**Biodegradability**

The content is not biodegradable.

**Section 13: Disposal Information**

P501: Dispose of contents in accordance with all local, regional, national, and international regulations.

**FLAME RETARDANT EPOXY****833FRB-PART B****Section 14: Transport Information****Ground**

**Refer to TDG regulations** (Canadian Transportation of Dangerous Goods regulations); **USA CFR 49 Regulations** (Parts 100 to 185). **ADR** (European Agreement Concerning the International Carriage of Dangerous Goods by Road, and **ADN** (Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways).

All sizes 1 liter and under

**Limited Quantity**

**Note:** The 833FRB-375ML and 833FRB-3L are composed of separate containers which meet this inner packaging limit.

Sizes greater than 1 liter

**UN number:** UN2259;

**Shipping Name:** TRIETHYLENETETRAMINE

**Class:** 8

**Packing Group:** II,  
Marine Pollutant: No

**Air**

**Refer to IATA Dangerous Goods Regulations.**

All sizes

**UN number:** UN2259;

**Shipping Name:** TRIETHYLENETETRAMINE

**Class:** 8

**Packing Group:** II,  
Marine Pollutant: No



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**FLAME RETARDANT EPOXY****833FRB-PART B****Sea****Refer to IMDG regulations.**

Sizes 1 liter and under

**Limited Quantity****Note:** The 833FRB-375ML and 833FRB-3L are composed of separate containers which meet this inner packaging limit.

Sizes greater than 1 liter

**UN number:** UN2259;**Shipping Name:** TRIETHYLENETETRAMINE**Class:** 8**Packing Group:** II,  
Marine Pollutant: No

*Note:* Component supplier SDS transportation sections and labeling were consulted. All involved staff of shipper must be appropriately trained before involvement with the transport of this product, or work under direct supervision of a trained person.

**Section 15: Regulatory Information****Canada****Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)**

All hazardous ingredients are listed on the DSL/NDSL.

**Industry and Science Canada**

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product are in compliance.

**Health Canada**

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling Regulations.

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**FLAME RETARDANT EPOXY****833FRB-PART B****USA****CAA** (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does contain an "antimony compound", which is listed as hazardous air pollutants.

**EPCRA** (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product contains antimony trioxide (CAS# 1309-64-4) which has a 1,000 lb reporting quantity requirements in section 313 Title III of the SARA of 1986 and 40 CFR part 372.

**TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, Sept 2, 2011 revision, USA).

This product contains carbon black (airborne, unbound particles of respirable size), which is listed as a carcinogen.

**Europe****RoHS**

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, or PBDE's, and complies with European RoHS regulations.

**WEEE**

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

**Section 16: Other Information**

**MSDS Prepared by** Michel Hachey

**Date of Issue** 16 December 2013

**Supersedes** 28 March 2013

**Reason for Changes:** Correct kit size list for limited quantity transport

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**FLAME RETARDANT EPOXY****833FRB-PART B****References**

- 1) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)
- 2) ACGIH 2011 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2011).

**Abbreviations**

ACGIH American Conference of Governmental Industrial Hygienists  
GHS: Globally Harmonized System of Classification of Labeling of Chemicals  
LC50 Lethal Concentration 50%  
LCLo Lowest published lethal concentration  
LD50 Lethal Dose 50%  
N/A Not Applicable  
N/E Not Estimated  
PEL Permissible Exposure Limit  
STEL Short-Term Exposure Limit  
TCLo Lowest published toxic concentration  
TWA Time Weighted Average  
VOC Volatile Organic Content

**Technical Queries** Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at [www.mgchemicals.com](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

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