

CONNECTOR COATING

4229-LIQUID

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Name: Connector Coating**SDS Code:** 4229-Liquid**Related Part #** 4229-55ML, 4229-1L, 4229-4L

Recommended Use and Restriction on Use

Uses: Electrically insulating coating used as an electrical tape substitute**Uses Advised Against:** Not available

Details of Manufacturer or Importer

ManufacturerMG Chemicals
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADAMG 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**WEB** www.mgchemicals.com**☎** +1-905-331-1396**FAX** +1-905-331-2682**E-MAIL** info@mgchemicals.com**E-MAIL** (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY—leaks, spills, fires, exposures or accidentsUSA or CANADA: Call CHEMTREC ☎: **+1-800-424-9300****For emergencies involving dangerous goods;** Collect 24/7CANADA: Call CANUTEC ☎: **+1-613-996-6666** or ***666** on cellular phones

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Section 2: Hazard(s) Identification

Classification of Hazardous Chemical

GHS Categories

Criteria	Category	Signal Word	Pictograms
Flammable liquid	2	Danger	Flame
Carcinogenicity	2	Warning	Health
Reproductive Toxicity	2	Warning	Health
Specific target organ toxicity Repeated exposure	2	Warning	Health
Eye Irritation	2	Warning	Exclamation
Skin Irritation	2	Warning	Exclamation
Specific target organ toxicity Single exposure	3	Warning	Exclamation
Environmental Hazard Acute aqua. tox.	2	none	none
Environmental Hazard Chronic aqua. tox.	2	none	Environment

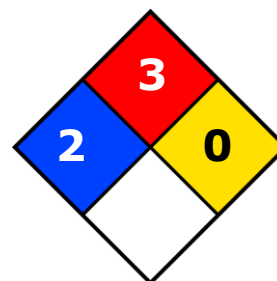
Note: The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity). Severity categories do not allow comparisons between classes.

Other Classifications

HMIS® RATING

HEALTH:	* 2
FLAMMABILITY:	3
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:





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

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Label Elements

Signal Word	DANGER
Pictograms	Hazard Statements
	H225: Highly flammable liquid and vapor
	H373: May cause damage to central nervous system or inner ear through prolonged or repeated exposure H351: Suspected of causing cancer H361: Suspected of damaging fertility or the unborn child
	H319: Causes serious eye irritation H315: Cause skin irritation H336: May cause dizziness or drowsiness
	H411: Toxic to aquatic life with long lasting effects.
Prevention	Precautionary Statements
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P260	Do not breathe fumes/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated areas.
P241	Use explosion-proof equipment.
P243	Take action to prevent static discharge.

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CONNECTOR COATING**4229-LIQUID***Continued...*

Prevention	Precautionary Statements
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/eye protection/face protection.
P273	Avoid release to the environment.
Response	Precautionary Statements
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
P303 + P361 + P363 + P352	IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P305 + P351 + P358	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
P337 + P313	If eye irritation persists: Get medical attention.
P304 + P340, P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.
Storage	Precautionary Statements
P403 + P235	Store in well ventilated place. Keep cool.
P405	Store locked up.
Disposal	Precautionary Statements
P501	Dispose of contents/container in accordance to local/regional/national/international regulations.

Other Hazards

Not applicable.

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Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(Wt/Wt)
64742-89-8	solvent naphtha (petroleum), light aliphatic	30-60%
110-54-3	n-hexane	10-30%
1330-20-7	xylene (mixed isomers)	10-30%
67-64-1	acetone	5-10%
100-41-4	ethylbenzene	1-5%
112945-52-5	silica, amorphous fumed	1-5%
1333-86-4	carbon black	0.1-1%

Section 4: First-Aid Measures

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
IF ON SKIN (or hair)	P303 + P361 + P363 + P352, P332 + P313
Immediate Symptoms	<i>mild skin irritant</i>
Response	IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
IF IN EYES	P305 + P351 + P338, P310, P337 + P313
Immediate Symptoms	<i>irritation, tearing, redness, pain, blurred vision</i>
Response	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
IF INHALED	P304 +P340, P312, P308 + P313
Immediate Symptoms	<i>respiratory irritation</i>
Response	Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing. If feeling unwell: Call a doctor. IF exposed or concerned: Get medical advice/attention.
IF SWALLOWED	P301 + P330 + P331, P312
Immediate Symptoms	<i>possible irritation, nausea, vomiting</i>
Response	Rinse mouth. Do NOT induce vomiting. If feeling unwell: Call a doctor.

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Section 5: Fire-Fighting Measures

Auto-ignition Temperature	Not available	Flash Point	-23 °C [-9.4 °F]	LFL [LEL] ^{a)}	1%
				UFL [UEL]	9%

In case of fire P370 + P378

Extinguishing Media Use dry chemical, carbon dioxide, chemical foam or water spray to extinguish.

Specific Hazards Will burn if involved in a fire. Vapors are heavier than air, and may travel to sources of ignition near the ground.

Combustion Products Produces carbon oxides (CO, CO₂).

Fire-fighters Wear self-contained breathing apparatus for fire fighting

a) Calculated based on Raoult's Law and using Le Chatelier principle
 LF[E]L = Lower Flammability [or Explosion] Limit (in volume %);
 UF[E]L = Upper Flammability [or Explosion] Limit (in volume %)

Section 6: Accidental Release Measures

Personal Protection Use personal protection recommended in Section 8.

Precautions for Response Do not breathe fumes/vapors. Remove all sources of ignition. Keep away from extreme heat or open flames.

Environmental Precautions Do not flush to sewer. Prevent spill from entering drains and waterways.

Containment Methods Contain with inert absorbent (such as soil, sand, vermiculite).

Cleaning Methods Collect liquid in a sealable, solvent-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wash spill area with soap and water to remove the last traces of residue.

RECOMMENDATION: Use a grounded stainless steel or carbon steel container or a solvent resistant plastic container.

Disposal Methods Dispose of spill waste according to Section 13.

CONNECTOR COATING**4229-LIQUID****Section 7: Handling and Storage****Prevention**

Keep out of reach of children.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Keep container tightly closed.

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use explosion proof equipment. Take action to prevent static discharge.

For large metal containers, ground and bond container and receiving equipment. Use explosion-proof equipment.

Do not breathe fume/mist/spray/vapors. Use only outdoors or in well-ventilated area.

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

Handling

Wear protective gloves/clothing/eye protection.

Wash hands thoroughly after handling.

Storage

Store in a well-ventilated area. Keep cool. Keep container tightly closed.

Store locked up.

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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)
n-hexane	ACGIH	50 ppm	Not established
	U.S.A. OSHA PEL	50 ppm	Not established
	Canada AB	50 ppm	Not established
	Canada BC	50 ppm	Not established
	Canada ON	50 ppm	Not established
	Canada QC	50 ppm	Not established
xylene (mixed isomers)	ACGIH	100 ppm	Not established
	U.S.A. OSHA PEL	100 ppm	150 ppm
	Canada AB	500 ppm	150 ppm
	Canada BC	100 ppm	150 ppm
	Canada ON	100 ppm	150 ppm
	Canada QC	100 ppm	150 ppm
acetone	ACGIH	500 ppm	750 ppm
	U.S.A. OSHA PEL	1 000 ppm	1 000 ppm
	Canada AB	500 ppm	750 ppm
	Canada BC	250 ppm	500 ppm
	Canada ON	500 ppm	750 ppm
	Canada QC	750 ppm	1000 ppm
ethylbenzene	ACGIH	100 ppm	Not established
	U.S.A. OSHA PEL	100 ppm	125 ppm
	Canada AB	150 ppm	200 ppm
	Canada BC	20 ppm	Not established
	Canada ON	100 ppm	125 ppm
	Canada QC	100 ppm	125 ppm
carbon black ^{a)}	ACGIH	3.5 mg/m ³	Not established
	U.S.A. OSHA PEL	3.5 mg/m ³	Not established
	Canada AB	3.5 mg/m ³	Not established
	Canada BC	3 mg/m ³	Not established
	Canada ON	3.5 mg/m ³	Not established
	Canada QC	3.5 mg/m ³	Not established

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH¹, OSHA, and Canadian provinces exposure limits were consulted. Limits from by RTECS database² of the Canadian Centre for Occupational Health and Safety (CCOHS) a data from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) Respirable airborne particles

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CONNECTOR COATING**4229-LIQUID****Engineering Controls****Ventilation**

Keep airborne concentrations below exposure limits. Do NOT aerosolize.

Recommendation: Use local exhaust ventilation.

Personal Protective Equipment**Eye/Face 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:

For full contact, use of protective gloves in viton or other chemically resistant gloves.

For incidental splash contact, use nitrile rubber or other chemically resistant gloves.

Respiratory Protection

For above limit exposures to mist/vapors/spray of up to 10 x OEL, wear respirator such as a half-mask respirator. Above 10 x OEL, only use a positive-pressure, air-supplied 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 SDS, and that the respirator is fitted to the employee by a professional.

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

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Section 9: Physical and Chemical Properties

Physical State	Liquid	Lower Flammability Limit ^{a)}	1%
Appearance	Black	Upper Flammability Limit ^{a)}	9%
Odor	aromatic hydrocarbon	Vapor Pressure @20 °C	25 kPa [185 mmHg]
Odor Threshold	Not available	Vapor Density	>2 (Air = 1)
pH	Not available	Specific Gravity @25 °C	0.83
Freezing/Melting Point	Not available	Solubility in Water	Insoluble
Boiling Point	≥56 °C [≥133 °F]	Partition Coefficient	Not established
Flash Point	-23 °C [-9.4 °F]	Auto-ignition Temperature ^{a)}	Not available
Evaporation Rate	>1 (ButAc =1)	Decomposition Temperature	Not available
Flammability (solid, gas)	Not applicable	Viscosity @25 °C	3 970 mm ² /s

a) Calculated based on Raoult's Law and using Le Chatelier principle

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Chemically stable at normal temperatures and pressures.
Possible Hazardous reactions	No hazardous polymerization
Conditions to Avoid	Ignition sources, excessive heat, and incompatible substances. Vapors may form explosive mixture with air.
Incompatibilities	Strong oxidizing agents, strong bases, strong acids, alkali metals
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5

CONNECTOR COATING**4229-LIQUID****Section 11: Toxicological Information****Routes of Exposure**

Eyes, ingestion, inhalation, and skin

Symptoms Summary

Eyes	Causes moderate to severe irritation, redness, pain.
Skin	Causes moderate skin irritation, redness, and dry skin.
Inhalation	May cause cough, irritation of the respiratory track, dizziness, drowsiness, headaches, (<i>in extreme exposure cases: unconsciousness and death</i>).
Ingestion	May cause burning sensation, abdominal pain, nausea, vomiting. (See also inhalation symptoms.)
Chronic	<p>Prolonged or repeated exposure may cause skin dryness and cracking, defat skin, and local redness and discomfort.</p> <p>Long term exposure to loud noises and vapors of xylene and ethylbenzene may lead to some hearing loss.</p> <p>Prolonged and repeated exposure is possibly carcinogenic based on animal inhalation studies.</p> <p>Ingestion or inhalation of material, mist, or vapor during pregnancy increases the chances fetal death and developmental defects.</p> <p>Chronic inhalation or ingestion of large doses may cause central nervous system depression.</p> <p>Prolonged or repeated over-exposure to the xylene and ethylbenzene component may lead to kidney damage (nephropathy).</p>

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Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
solvent naphtha (petroleum), light aliphatic	>5 000 mg/kg Rat	>2 000 mg/kg Rabbit	Not available
n-hexane	15 480 mg/kg Rat	>1.3 g/kg Rabbit ^{b)}	627 000 ppm 3 min Rat
xylene	4 350 mg/kg Rat	>1 700 mg/kg Rabbit	5 000 ppm 4 h Rat
acetone	5 800 mg/kg Rat	>9 400 µL/kg Guinea pig	44 g/m ³ 4 h Rat
ethylbenzene	3 500 mg/kg Rat	>5 000 mg/kg Rabbit	35 500 mg/m ³ 2h Mouse
silica, amorphous fumed	3 160 mg/kg Rat	Not available	Not available
carbon black	>15 g/kg Rat	>3 g/kg Rabbit	Not available

Note: Representative toxicity data from by RTECS database of the Canadian Centre for Occupational Health and Safety (CCOHS)¹ data from supplier (M)SDS were also consulted.

Other Toxicological Effects

Skin corrosion/irritation	Moderate skin irritant
Serious eye damage/irritation	Causes severe eye irritation.
Respiratory or Skin Sensitization (allergic reactions)	No known effect

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CONNECTOR COATING**4229-LIQUID****Carcinogenicity**

(risk of cancer)

Classified as carcinogenic under GHS.

Carbon Black [1333-86-4]

IARC Group 2B: Possibly carcinogenic to humans

ACGIH A4: Not classified as a human carcinogen

CA Prop 65: Listed as a carcinogen

NTP: Not listed

Ethylbenzene [100-41-4]

IARC Group 2B: Possibly carcinogenic to humans

ACGIH A3: Confirmed animal carcinogen with
unknown relevance to humans

CA Prop 65: Listed as a carcinogen

NTP: Not listed

Mutagenicity

(risk of heritable genetic effects)

No data available

Reproductive Toxicity

(risk to sex functions)

No data available

Teratogenicity

(risk of fetus malformation)

The n-hexane component causes harm to fetus
according to animal studies.**STOT-single exposure**Inhalation of solvent naphtha (petroleum), n-hexane,
and xylene isomers can affect the central nervous
system causing drowsiness or dizziness.**STOT-repeated exposure**Prolonged or repeated over-exposure to p-xylene and
ethylbenzene and noise can lead to hearing loss
(cochlear impairment) according to rat inhalation
studies.At high levels of exposures, ethylbenzene causes
damage of the liver.**Aspiration hazard**Does not meet classification criteria. The mixture has
about 63% cat 1 components, but its kinematic
viscosity is well above the 20.5 mm²/s threshold at
40 °C.**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 (M)SDS along with supporting data for the classification of registered substances from the European Chemical Agency database (<http://echa.europa.eu>) were used.

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The solvent naphtha (petroleum), light aliphatic and n-hexane components are classified as chronic category 2 environmental toxicants.

Xylene isomers are an acute category 2 environmental toxicant (with minimal LC50 of 2.5 mg/L for fish; EC50 1 mg/L 48 h Daphnia magna (water flea)).

Ethylbenzene is an acute category 2 environmental toxicant (with minimal LC50 of 4.2 mg/L for *Oncorhynchus mykiss* (rainbow trout); EC50 2.9 mg/L 48 h Daphnia magna (water flea)).

The LC50 for Acetone is 5,540 mg/L 96 h for *Oncorhynchus mykiss* (rainbow trout) and 13,500 mg/L 48 h Daphnia magna (water flea).

Fumed silica and carbon black are non-hazardous for the environment for according to GHS classification criteria.

The material will float in water and evaporate in the atmosphere making it an unlikely to cause ground or water pollution.

Acute Ecotoxicity

Category 2

GHS Code: Hazard Statement

H401: Toxic to aquatic life

Chronic Ecotoxicity

Category 2

GHS Code: Hazard Statement

H411: Toxic to aquatic life with long lasting effects

Persistence and Biodegradability

This substance is considered to be easily biodegradable.

Bioaccumulative Potential

No data available

Mobility in Soil

No data available

Other Adverse Effects

VOC (*Volatile Organic Content*) = 67% [556 g/L]

VOC is in accordance to EPA, WHIMS

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Section 13: Disposal Considerations

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

Section 14: Transport Information

Ground

Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations);
USA CFR 49 Regulations (Parts 100 to 185).

Sizes 5 liter and under

Limited Quantity



Sizes greater than 5 liter

UN number: UN1139

Shipping Name:
COATING SOLUTION

Class: 3

Packing Group: II

Marine Pollutant: Yes



Flash Point = -23 °C [-9.4 °F]

Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 1 liter and under

Limited Quantity



Sizes greater than 1 liters up to 5 L

UN number: UN1139

Shipping Name:
COATING SOLUTION

Class: 3

Packing Group: II

Marine Pollutant: Yes



Flash Point = -23 °C [-9.4 °F]

CONNECTOR COATING**4229-LIQUID****Sea****Refer to IMDG regulations.**

Sizes 5 liter and under

Limited Quantity

Sizes greater than 5 liter

UN number: UN1139**Shipping Name:**
COATING SOLUTION**Class:** 3**Packing Group:** II**Marine Pollutant:** Yes

Flash Point = -23 °C [-9.4 °F]

Note: Shipper must be appropriately trained and certified before involvement with the transport of dangerous goods.

Section 15: Regulatory Information**Canada****WHMIS Classification**

B2 – Flammable Liquid; D2B – Toxic Material (eye irritation);
D2A – Very Toxic Material (Possible carcinogen IARC: 2B, Teratogenicity)

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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CONNECTOR COATING**4229-LIQUID****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 contains n-hexane, xylene, and ethylbenzene, which are listed as hazardous air pollutants.

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

This product contains n-hexane (CAS # 110-54-3; reportable quantity = 100 lb), xylene (CAS# 1330-20-7, reportable quantity = 100 lb), and ethylbenzene (CAS # 100-41-4; reportable quantity = 1000 lb), which are subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

This product contains acetone (CAS# 78-93-3, reportable quantity = 5000 lb), which can be subject to the CERCLA reporting requirements.

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.

This product contains ethylbenzene (CAS # 100-41-4), which are 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

SDS Prepared by Michel Hachey

Date of Revision 14 August 2014

Supersedes 16 October 2013

Reason for Changes: Change to HCS 2012 format requirements.

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CONNECTOR COATING**4229-LIQUID****References**

- 1) ACGIH 2013 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 (2013).
- 2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
EC50	Half maximal effective concentration
EL50	Half maximal effective loading
NOELR	No observable effect loading ratio
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
OEL	Occupational Exposure Limit
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.

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