

SAFETY WASH™ II

4050A-AEROSOL

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: Safety Wash™ II

SDS Code: 4050A-Aerosol

Related Part # 4050A-450G

Recommended Use and Restriction on Use

Use: Cleaner for electronics that is safe for plastics

Uses Advised Against: Not available

Details of Manufacturer or Importer

Manufacturer

MG Chemicals
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA

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

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FAX +1-905-331-2682

E-MAIL info@mgchemicals.comE-MAIL (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)
USA or CANADA—Call CHEMTREC at **+1-800-424-9300**

For emergencies involving the transport of dangerous goods; 24/7 service
CANADA—Call CANUTEC collect at **+1-613-996-6666** or ***666** on cellular phones

Section 2: Hazard(s) Identification
Classification of Hazardous Chemical
GHS Categories

Criteria	Category	Signal Word	Pictograms
Aspiration Hazard	1	Danger	Health
Reproductive Toxicity	2	Warning	Health
Flammable Aerosol	2	Warning	Flame
Gas Under Pressure	Liquefied Gas	Warning	Gas Cylinder
Eye Irritation	2	Warning	Exclamation
Skin Irritation	2	Warning	Exclamation
Specific Target Organ Toxicity Single Exposure	3	Warning	Exclamation
Hazardous to Aquatic Environment Chronic	2	<i>none</i>	Environment

Note: The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

Label Elements

Signal Word	DANGER
Pictograms	Hazard Statements
	H223: Flammable aerosol
	H280: Contains gas under pressure; may explode if heated

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Pictograms	Hazard Statements
	<p>H304: May be fatal if swallowed and enters airways H361: Suspected of damaging fertility or the unborn child</p>
	<p>H319: Causes serious eye irritation H315: Causes skin irritation H336: May cause dizziness or drowsiness</p>
	<p>H411: Toxic to aquatic life with long lasting effects</p>
Prevention	Precautionary Statements
<p>P102 P201, P202 P210 P211 P251 P261, P271 P280 P264 P273</p>	<p>Keep out of reach of children. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection/protective clothing. Wash hands thoroughly after handling. Avoid release to the environment.</p>

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Prevention	Precautionary Statements
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P301 + P310, P331	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical attention.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
Storage	Precautionary Statements
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F].
P403	Store in well-ventilated place.
P405	Store locked up.
Disposal	Precautionary Statements
P501	Dispose of contents/container in accordance to local/regional/international regulations.

Hazards Not Otherwise Classified

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Defats skin	Repeated exposure may cause skin dryness or cracking.	None	None

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	% (weight)
75-37-6	1,1-difluoroethane ^{a)}	35%
67-63-0	propan-2-ol ^{b)}	26%
107-83-5	methyl-2-pentane	10-30%
96-14-0	methyl-3-pentane	5-10%
79-29-8	dimethyl-2,3-butane	5-10%
75-83-2	dimethyl-2,2-butane	3-7%
64-17-5	ethanol ^{c)}	6%
109-66-0	pentane	1-5%
110-54-3	n-hexane	1-5%
141-78-6	ethyl acetate	0.1%

a) Commonly referred to as HFC-152a

b) Commonly known as isopropyl alcohol (IPA)

c) Denatured alcohol

Section 4: First-Aid Measures

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
IF SWALLOWED	P301 + P330, P331, P308 + P313
Immediate Symptoms	<i>nausea, vomiting, abdominal pain, headaches, dizziness, drowsiness,</i>
Response	Immediately call a POISON CENTRE/doctor. Rinse mouth. Do NOT induce vomiting. IF exposed or concerned: Get medical advice/attention.
IF INHALED	P304 + P340, P312, P308 + P313
Immediate Symptoms	<i>cough, shortness of breath, dizziness, drowsiness, headaches</i>
Response	Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing. If feeling unwell: Call a POISON CENTRE/doctor. IF exposed or concerned: Get medical advice/attention.

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IF IN EYES	P305 + P351 + P338, P337 + P313
Immediate Symptoms	<i>redness, irritation, pain</i>
Response	Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
IF ON SKIN	P302 + P352, P332 + P313, P308 + P313, P362 + P364
Immediate Symptoms	<i>dry skin, redness, irritation</i>
Response	IF ON SKIN: Wash with plenty of water/shower. If skin irritation occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Section 5: Fire-Fighting Measures

Extinguishing Media	In case of fire: Use dry chemical, carbon dioxide, or chemical foam to extinguish. Use water spray to cool containers.
Specific Hazards	Aerosols containers may erupt with force at temperatures above 50 °C [122 °F]. Produces irritating and toxic fumes in fires or in contact with hot surfaces. The vapors are heavier than air and may accumulate in low-lying areas. Vapors may travel long distances and ignite at an ignition source, which can cause a flashback or an explosion
Combustion Products	Produces carbon oxides (CO,CO ₂), halogenated compounds, and hydrogen fluoride (HF).
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

Section 6: Accidental Release Measures

Personal Protection	See personal protection recommendations in Section 8.
Precautions for Response	Avoid breathing the fumes/mist/vapors. Remove or keep away all sources of extreme heat or open flames.
Environmental Precautions	Avoid releasing to the environment. Prevent spill from entering drains and waterways.
Containment Methods	Not applicable
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.

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 away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing vapors/mist/spray. Use only outdoors or in a well-ventilated area.
Handling	Wear protective gloves/clothing/eye protection/protective clothing. Wash hands thoroughly after handling.
Storage	Avoid release to the environment. Collect spillage. Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F]. Store in a well-ventilated area. Store locked up.

Section 8: Exposure Controls/Personal Protection
Substances with Occupational Exposure Limit Values

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
1,1-difluoroethane	ACGIH U.S.A. OSHA PEL Canada	Not established Not established Not established	Not established Not established Not established
propan-2-ol	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	200 ppm (TWA) 400 ppm 200 ppm 200 ppm 200 ppm 400 ppm	400 ppm Not established 400 ppm 400 ppm 400 ppm 500 ppm
methyl-2-pentane	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	500 ppm (500 ppm) ^{a)} 500 ppm 200 ppm 500 ppm 500 ppm	Not established (1 000 ppm) ^{a)} 1 000 ppm Not established 1 000 ppm 1 000 ppm
ethanol	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	1 000 ppm 1 000 ppm 1 000 ppm Not established Not established 1 000 ppm	Not established Not established Not established 1 000 ppm 1 000 ppm Not established
methyl-3-pentane	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	500 ppm (500 ppm) ^{a)} 500 ppm 200 ppm 500 ppm 500 ppm	Not established (1 000 ppm) ^{a)} 1 000 ppm Not established 1 000 ppm 1 000 ppm
dimethyl-2,3-butane	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	500 ppm (500 ppm) ^{a)} 500 ppm 200 ppm 500 ppm 500 ppm	Not established (1 000 ppm) ^{a)} 1 000 ppm Not established 1 000 ppm 1 000 ppm

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Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
dimethyl-2,2-butane	ACGIH	500 ppm	Not established
	U.S.A. OSHA PEL	(500 ppm) ^{a)}	(1 000 ppm) ^{a)}
	Canada AB	500 ppm	1 000 ppm
	Canada BC	200 ppm	Not established
	Canada ON	500 ppm	1 000 ppm
	Canada QC	500 ppm	1 000 ppm
n-hexane	ACGIH	50 ppm	Not established
	U.S.A. OSHA PEL	50 ppm ^{b)}	Not established
	Canada AB	50 ppm	Not established
	Canada BC	20 ppm ^{b)}	Not established
	Canada ON	50 ppm ^{b)}	Not established
	Canada QC	50 ppm	Not established
ethyl acetate	ACGIH	400	Not established
	U.S.A. OSHA PEL	400	Not established
	Canada AB	400	Not established
	Canada BC	150	Not established
	Canada ON	Not established	Not established
	Canada QC	400	Not established

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS² database and 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) Value vacated (retracted) under court order, but still in effect in some states

b) Skin – significant exposure through skin route

Engineering Controls

Ventilation Keep airborne concentrations below the occupational exposure limits (OEL).

Personal Protective Equipment

Eye protection Wear appropriate protective eyeglasses or chemical safety goggles.

RECOMMENDATION: Ensure that glasses have side shields for lateral protection.

Skin Protection For likely contacts, use of protective butyl rubber or other chemically resistant gloves.

For incidental contacts, use nitrile or other chemically resistant gloves.

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Respiratory Protection For over-exposures up to 10 x OEL of mist/vapors/spray, wear respirator such as a half-mask respirator with organic vapor cartridges.

Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

RECOMMENDATION: Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be 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

Physical State	Liquid	Lower Flammability Limit ^{b)}	1%
Appearance	Colorless	Upper Flammability Limit ^{b)}	8%
Odor	Mild	Vapor Pressure @20 °C ^{b)}	13 kPa [100 mmHg]
Odor Threshold	Not available	Vapor Density	≥1.6
pH	Not available	Specific Gravity @25 °C	0.77
Freezing/Melting Point	Not available	Solubility in Water	Miscible
Boiling Point	≥52 °C [≥125 °F]	Partition Coefficient	Not available
Flash Point ^{a)}	-29 °C [-20 °F]	Auto-ignition Temperature ^{c)}	363 °C [685 °F]
Evaporation Rate	Not available	Decomposition Temperature	Not available
Flammability (solid, gas)	Not available	Viscosity @25 °C	Not available

a) Closed cup value for mixture of hexane isomers

b) Calculated using Raoult's Law and Le Chatelier Principle

c) Auto-ignition value based on ethanol literature value

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Avoid temperatures above 50 °C [122 °F], open flames, and incompatible substances.
Incompatibilities	Avoid strong oxidizing agents, strong acids, strong bases, powdered aluminum at ≥ 49 °C [≥ 120 °F]
Polymerization	Will not occur
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

Section 11: Toxicological Information**Summary of Effects and Symptoms by Routes of Exposure**

Eyes	Causes redness, serious eye irritation, or pain.
Skin	Causes skin redness, irritation, and dry skin.
Inhalation	May cause nose, throat and lung irritation. Overexposure may lead to dizziness or drowsiness.
Ingestion	Aspiration of the liquid into the lungs can cause chemical pneumonia. See inhalation symptoms.
Chronic	Prolonged or repeated exposure may cause skin dryness, cracking, as well as defatting the skin. Ingestion or inhalation mist or vapors during pregnancy may increase the chances fetal death and developmental defects.

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Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
1,1-difluoroethane	Not available	Not available	1 500 g/m ³ 4 h Rat
propan-2-ol	3 600 mg/kg Rat	12 800 mg/kg Rabbit	16 000 ppm 8 h Rat
methyl-2-pentane	Not available	Not available	3 125 ppm 4 h Rat ^{a)}
ethanol	7 060 mg/kg Rat	Not available	20 000 ppm 10 h Rat
methyl-3-pentane	Not available	Not available	Not available
dimethyl-2,3-butane	Not available	Not available	Not available
dimethyl-2,2-butane	Not available	Not available	Not available
pentane	>2 000 mg/kg Rat	Not available	<20 000 ppm 4 h Rat (vapor)
n-hexane	15 480 mg/kg Rat	2 000 mg/kg Rabbit	48 000 ppm 4 h Rat
ethyl acetate	5 620 mg/kg Rat	>20 000 µL/kg Rabbit	45 g/m ³ 2 h Mouse

Note: Toxicity data from the RTECS² and ECHA databases were consulted. The data from supplier (M)SDS were also consulted.

a) Supplier SDS

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SAFETY WASH™ II**4050A-AEROSOL****Other Toxicological Effects**

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Propan-2-ol, ethanol, and ethyl acetate are known serious eye irritants.
Sensitization (allergic reactions)	Based on available data, the classification criteria are not met.
Carcinogenicity (risk of cancer)	<p>Except for ethanol, none of the ingredients are classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.</p> <p>Evidence of carcinogenicity of ethanol relates to excessive alcoholic beverage consumption, and doesn't relate to exposure risks when used in the workplace or as a non-comestible consumer product.</p> <p>Ethanol [CAS# 64-17-5]</p> <p>IARC Group 1: Possibly carcinogenic to humans in the form of alcoholic beverages (not ethanol)</p> <p>ACGIH A4: Not classified as a human carcinogen</p> <p>CA Prop 65: Listed as a carcinogen when consumed as a beverage</p> <p>NTP: When in alcoholic beverage consumption, it is listed as a known carcinogen</p>
Mutagenicity (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
Reproductive Toxicity (risk to sex functions)	Based on available data, the classification criteria are not met.
Teratogenicity (risk of fetus malformation)	<p>The n-hexane component was found to harm fetus in animal studies.</p> <p>An excessive consumption of ethanol was found to be harmful to the fetus.</p>
STOT-single exposure	The hexane isomers, propan-2-ol, and ethyl acetate cause central nervous systems effects leading to dizziness or drowsiness.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Mixture is a class 1 aspiration hazard. It contains up to 30% class 1 aspiration hazard components and has a mixture viscosity of <math><20.5 \text{ mm}^2/\text{s}</math> at 40 °C.

Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<http://echa.europa.eu>), and other reliable sources.

The 2-propanol component is not classifiable as an environmental toxicant with a minimal LC50 96 h of 9 640 mg/L for *Pimephales promelas* (fathead minnow); an EC50 24 h of 5 102 mg/L *Daphnia magna* (water flea); and an EC50 72 h of 2 000 mg/L *Desmodesmus subspicatus* (green algae).

Ethanol is not classifiable as an environmental toxicant with a minimal LC50 96 h of 12 000 mg/L for *Oncorhynchus mykiss* (rainbow trout) and EC50 of 5 770 mg/L for *Pimephales promelas* (fathead minnow); and LC50 48 h of 5 012 mg/L for *Ceriodaphnia* sp.

Mixtures of isoalkanes C6-C7 with <5% n-hexane suggest a EC50 >2 mg/L for fish using a QSAR model. For water flea (*Daphnia magna*) a NOELR 21 days of 1 mg/L and an EL50 of 1.6 mg/L.

The ethyl acetate ingredient is an acute category 3 environmental toxicant liquid (biodegradable, with minimal LC50 of 220 mg/L for fathead minnow).

Acute Ecotoxicity

See chronic ecotoxicity

Chronic Ecotoxicity

Category 2

Toxic to aquatic life with long lasting effects

Biodegradability

Not available

Bioaccumulation

Not available

Other Effects

Regulated Volatile Organic Compound (VOC) content = 65% (501 g/L)

Section 13: Disposal Information

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

Section 14: Transport Information**Ground**

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

Limited Quantity



UN number: UN1950

Shipping Name:
AEROSOLS, flammable

Class: 2.1

Packing Group: Not applicable

Marine Pollutant: Yes

Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Limited Quantity



UN number: UN1950

Shipping Name:
AEROSOLS, flammable

Class: 2.1

Packing Group: Not applicable

Marine Pollutant: Yes

Sea

Refer to IMDG regulations.

Limited Quantity



UN number: UN1950

Shipping Name:
AEROSOLS, flammable

Class: 2.1

Packing Group: Not applicable

Marine Pollutant: Yes

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

Section 15: Regulatory Information

Canada

Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL.

Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

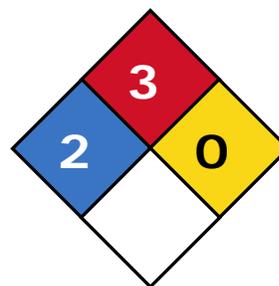
USA

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)

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 not contain substances that are listed as hazardous air pollutants.

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

This product contains up to 26% propan-2-ol (CAS# 67-63-0) which is subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

This product contain ≤5% n-hexane (CAS# 110-54-3; reportable quantity = 5 000 lb), which is subject to the reporting requirements in section 313 Title III of the SARA of 1986 and 40 CFR part 372.

This product contains 0.1% ethyl acetate (CAS# 141-78-6), which is subject to the CERCLA reporting requirements at a the threshold 5 000 lb (2 268 kg).

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SAFETY WASH™ II**4050A-AEROSOL****TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, January 27, 2017 revision, USA).

This product contains ethanol, which is listed as reproductively toxic and carcinogen when in an alcoholic beverage. This is not applicable to this product.

This product contains n-hexane, which is listed as reproductively toxic.

Europe**RoHS** (Restriction of Hazardous Substances Directive)

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

WEEE (Waste Electrical and Electronic Equipment Directive)

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 Review	07 November 2017
Supersedes	18 August 2016
Reason for Changes:	Added California proposition 65 hazard statement for n-hexane (reproductive hazard) in section 15.

Reference

- 1) ACGIH 2017 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 (2017).
- 2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

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SAFETY WASH™ II**4050A-AEROSOL****Abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
EC50	Half maximal effective concentration
EL50	Half maximal effective loading
IARC	International Agency for Research on Cancer
NOELR	No observable effect loading ratio
NTP	National Toxicology Program
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
SDS	Safety Data Sheet
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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