

8703

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Identifier: 8703**Other Means of Identification:** Threadlocker, High Strength, Permanent**Related Part #** 8703-10ML, 8703-50ML

Recommended Use and Restriction on Use

Use: Permanent, high strength thread locker for fasteners up to 1"**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 accidents)USA or CANADA—Call Verisk 3E at **+1-866-519-4752** or **+1-760-476-3962**

(Service access code: 335388)

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

8703
Section 2: Hazard(s) Identification
Classification of the Hazardous Material
GHS Categories

Criteria		Category	Signal Word	Pictograms
Sensitization	Skin	1	Warning	Exclamation
Skin Irritation		2	Warning	Exclamation
Eye Irritation		2	Warning	Exclamation
Hazardous to the Aquatic Environment	Chronic	3	None	None

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	WARNING
Pictograms	Hazard Statements
	H319: Causes serious eye irritation H315: Cause skin irritation H317: May cause an allergic skin reaction
<i>No symbol mandated</i>	H412: Harmful to aquatic life with long lasting effects
Prevention	Precautionary Statements
P102	Keep out of reach of children.
P261	Avoid breathing mist, vapors.
P280	Wear protective gloves, eye protection.
P272	Contaminated work clothing should not be allowed out of the workplace.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.

Section continued on the next page

Page **2** of **13**

Revision Date: 28 February 2020 / Ver. 3.00

8703
Continued...

Response	Precautionary Statements
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.
P333 + P313	If skin irritation or rash occurs: Get medical advice or attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
Storage	Precautionary Statements
P403 + P233	Store in well-ventilated area. Keep container tightly closed.
Disposal	Precautionary Statements
P501	Dispose of contents in accordance to local, regional, and international regulations.

Hazards Not Otherwise Classified

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
None	None	None	None

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	% (weight)
24448-20-2	aromatic dimethacrylate	60-70%
39382-25-7	bisphenol A fumarate resin	15-20%
27813-02-1	hydroxypropyl methacrylate	15-20%
80-15-9	cumene hydroperoxide	1-2%
81-07-2	saccharin	1-2%

8703
Section 4: First-Aid Measures

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
IF IN EYES	P305 + P351 + P338, P337 + P313
Immediate Symptoms	<i>redness, severe irritation, pain</i>
Response	Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
IF INHALED	P304 + P340, P312
Immediate Symptoms	<i>cough, irritation of the respiratory track</i>
Delayed Symptoms	<i>(extreme exposure) shortness of breath, wheezing</i>
Response	Remove person to fresh air and keep comfortable for breathing. If feeling unwell: Call a POISON CENTER or doctor.
IF ON SKIN	P302 + P352, P362 + P364, P333 + P313
Immediate Symptoms	<i>irritation, rash, redness</i>
Response	Wash with plenty of water or shower. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice or attention.
IF SWALLOWED	P301 + P330, P331
Immediate Symptoms	<i>Low toxicity: abdominal pain, burning sensation</i>
Response	Rinse mouth. Do not induce vomiting.

Section 5: Fire-Fighting Measures

Extinguishing Media	Use dry chemical, carbon dioxide, or chemical foam to extinguish. Use water spray to cool containers.
Specific Hazards	Will burn if involved in a fire. Produces irritating fumes in fires or in contact with hot surfaces. Toxic to the environment: Prevent fire-fighting wash from entering waterway or sewer system.
Combustion Products	Produces carbon oxides (CO, CO ₂) and nitrogen oxides (NO _x)
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

8703

Section 6: Accidental Release Measures

Personal Protection	See personal protection equipment in Section 8.
Precautions for Response	Avoid breathing the vapors or fumes.
Environmental Precautions	Prevent spill from entering drains and waterways.
Containment Methods	Prevent spill from entering drains and waterways. Contain with inert absorbent (such as soil, sand, vermiculite).
Cleaning Methods	Collect liquid in a sealable, solvent-resistant container. Wipe the residues with a paper towel and place dirty towels in container. Wash spill area with soap and water to remove the last traces of residue.
Disposal Methods	Dispose of spill waste according to Section 13.

Section 7: Handling and Storage

Prevention	Keep out of reach of children. Avoid breathing mist, vapors. Use only outdoors or in a well-ventilated area.
Handling	Wear protective gloves and eye protection. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse. Wash hands thoroughly after handling.
Storage	Protect from sunlight. Do not expose to temperatures exceeding 38 °C [100 °F]. Store in a well-ventilated area. Keep tightly closed.

8703

Section 8: Exposure Controls/Personal Protection

Substances with Occupational Exposure Limit Values

Contains no substances with occupational exposure limits.

Note: The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted.

Engineering Controls

Ventilation General ventilation is adequate for normal use; keep overall exposure as low as possible.

Personal Protective Equipment

Eye protection Wear appropriate protective eyeglasses or chemical safety goggles.

RECOMMENDATION: Use safety glasses with lateral protection.

Skin Protection Wear appropriate protective clothing to prevent skin contact.

RECOMMENDATION: Use neoprene, natural rubber, butyl rubber, 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 a NIOSH (U.S.) approved 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. 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.

8703
Section 9: Physical and Chemical Properties

Physical State	Liquid	Lower Flammability Limit	Not available
Appearance	Purple	Upper Flammability Limit	Not available
Odor	Mild	Vapor Pressure @27 °C	<5 mmHg [<0.7 kPa]
Odor Threshold	Not available	Vapor Density	>2.6 (Air =1)
pH	Not available	Relative Density @21 °C	1.05
Freezing/Melting Point	Not available	Solubility in Water	Slight
Initial Boiling Point	≥149 °C [≥300 °F]	Partition Coefficient n-octanol/water	Not available
Flash Point	>93 °C [>200 °F]	Auto-ignition Temperature	Not available
Evaporation Rate	Not available	Decomposition Temperature	Not available
Flammability	Non flammable	Viscosity @40 °C	Not available

Section 10: Stability and Reactivity

Reactivity	Not available.
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Temperatures over 38 °C [100 °F] and incompatible substances
Incompatibilities	Strong oxidizing agents, strong acids, strong bases, alkali or alkali earth metals
Polymerization	Will not occur
Decomposition	At 70 °C [158 °F], the cumene hydroperoxide may undergo self-accelerating decomposition. For thermal decomposition, see combustion products in Section 5

8703
Section 11: Toxicological Information
Summary of Effects and Symptoms by Routes of Exposure

Eyes	Causes severe eye irritation, eye redness or pain.
Skin	May cause mild skin irritation. May cause rash due to allergic reaction.
Inhalation	May cause nose, throat and lung irritation.
Ingestion	It may cause irritation and burning sensation (see inhalation symptoms).
Chronic	Prolonged and repeated exposure may damage mucous tissue in the upper respiratory tract and lungs. Prolonged and repeated exposure may lead to skin sensitization.

Lethal Exposure Concentrations

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
aromatic dimethacrylate	Not available	Not available	Not available
bisphenol A fumarate resin	Not available	Not available	Not available
hydroxypropyl methacrylate	11 200 mg/kg Rat	>5 000 mg/kg Rabbit	Not available
cumene hydroperoxide	382 mg/kg Rat	490 mg/kg Rabbit	220 ppm Rat
saccharin	17 000 mg/kg Rat	Not available	Not available

Note: Toxicity data from the RTECS² and ECHA databases were consulted. The data from supplier SDSs were also consulted.

Section continued on the next page

8703**Other Toxicological Effects**

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes severe eye irritation.
Respiratory and skin sensitization (allergic reactions)	Skin sensitizer based on animal studies on aromatic dimethacrylate and hydroxypropyl methacrylate.
Carcinogenicity (risk of cancer)	Not classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP
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)	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	<p>This anaerobic adhesive mixture has a fast fixture time in contact with air and polymerizes in a few minutes only. The mixture doesn't give rise to STOT RE 2 hazard because the cumene hydroperoxide content is inextricably bound in the quick forming polymer matrix and, therefore, is not bioavailable in a long term or repeated exposure under normal use or foreseeable emergencies.</p> <p>Cumene hydroperoxide is a STOT RE 2 and causes damage to lungs through prolonged or repeated exposure. Overexposure may lead to pulmonary edema.</p>
Aspiration hazard	Based on available data, the classification criteria are not met. The liquid content is not an aspiration hazard.

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.

Section continued on the next page

8703

Cumene hydroperoxide is an acute category 2 environmental toxicant (with minimal LC50 of 3.96 mg/L for *Oncorhynchus mykiss* (rainbow trout); EC50 18.84 mg/L 48 h *Daphnia magna* (water flea); 3.1 mg/L 72 h *Desmodesmus subcapitata*).

Saccharin, hydroxypropyl metacrylate, and bisphenol A fumerate resin are non-hazardous for the environment for according to GHS classification criteria.

Acute Ecotoxicity

Category 3

Harmful to aquatic life with long lasting effects

Avoid release to the environment.

Chronic Ecotoxicity

Not classifiable

Persistence and Biodegradability

Not available

Bioaccumulative Potential

Not available

Other Effects

Not available

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 DOT 49 CFR** (Parts 100 to 185) **Regulations.**

Not Regulated

Section continued on the next page

8703

Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Not Regulated

Sea

Refer to IMDG regulations.

Not Regulated

Section 15: Regulatory Information

Canada

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

All hazardous ingredients are listed on the DSL/NDSL.

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.

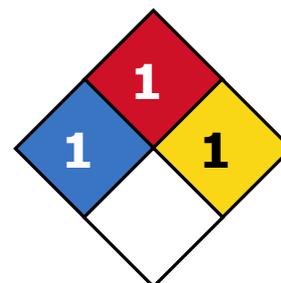
USA

Other Classifications

HMIS® RATING

HEALTH:	* 1
FLAMMABILITY:	1
PHYSICAL HAZARD:	1
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.

Section continued on the next page

Page **11** of **13**

Revision Date: 28 February 2020 / Ver. 3.00

8703

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

This product contains cumene hydroperoxide (CAS# 80-15-9; reportable quantity = 10 lb), which is subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

This product contains saccharin (CAS# 81-07-2; reportable quantity 100 lb), which is subject to the CERCLA reporting requirements of section 102(a).

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 does not contain any listed substances in California.

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

Prepared by the	Regulatory Affairs Department
Date of Revision	28 February 2020
Supersedes	12 December 2018
Reason for Changes:	Change in emergency phone numbers and general revision.

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®)

Section continued on the next page

8703**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%
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.

Email: support@mgchemicals.com

Phone: +1-905-331-1396

Mailing Addresses	<i>Manufacturing & Support</i>	<i>Head Office</i>
	1210 Corporate Drive	9347-193rd Street
	Burlington, Ontario, Canada	Surrey, British Columbia, Canada
	L7L 5R6	V4N 4E7

Disclaimer

This safety data sheet is provided as an information resource only. *M.G. Chemicals, Ltd.* believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to query and verify any information seeming suspect where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, regional, national, and international regulations.