8702

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: 8702

Other Means of Identification: Threadlocker, Medium Strength, Removable

Related Part #: 8702-10ML, 8702-50ML

Recommended Use and Restriction on Use

Use: Removable thread locker for fasteners up to ¾"

Uses Advised Against: Not available

Details of Manufacturer or Importer

Manufacturer
MG Chemicals
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Burlington, Ontario L7L 5R6
CANADA

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FAX +1-800-340-0773
E-MAIL support@mgchemicals.com
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MG Chemicals (Head Office)
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Surrey, British Columbia V4N 4E7
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☎ +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 service
CANADA—Call CANUTEC collect at ***+1-613-996-6666*** or ****666*** on cellular phones

Section 2: Hazard(s) Identification

Classification of the Chemical Material

GHS Categories

Criteria		Category	Signal Word	Pictograms
Sensitization	Skin	1	Warning	Exclamation
Eye Irritation		2	Warning	Exclamation
Skin Irritation		2	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	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 H335: May cause respiratory irritation H315: Cause skin irritation H317: May cause an allergic skin reaction
No symbol mandated	H412: Harmful to aquatic life with long lasting effects
Prevention	**Precautionary Statements**
P102	Keep out of reach of children.
P261	Avoid breathing vapors or fumes.
P271	Use only outdoors or in a well-ventilated area.
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

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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.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or doctor if you feel unwell.
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.
P405	Store locked up.
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)
25852-47-5	polyglycol dimethacrylate	60–65%
9004-96-0	polyglycol oleate	26–32%
81-07-2	saccharin	4–6%
112945-52-5	silica, amorphous fumed	4–6%
57-55-6	1,2-propylene glycol	1–3%
80-15-9	cumene hydroperoxide	1–3%
613-48-9	N,N-dialkyltoluidines	0.5–1.1%

Section 4: First-Aid Measures

Exposure Condition	*GHS Code: Precautionary Statement*
IF IN EYES	P305 + P351 + P338, P337 + P313
Immediate Symptoms	*redness, severe irritation, pain*
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 INHALED	P304 + P340, P312
Immediate Symptoms	*irritation of the respiratory track, cough*
Delayed Symptoms	*(extreme exposure) shortness of breath, wheezing*
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	*irritation, redness, allergic contact dermatis*
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	*Low toxicity: abdominal pain, burning sensation*
Response	Rinse mouth. Do not induce vomiting.

Section 5: Fire-Fighting Measures

Extinguishing Media	Use extinguishing media suitable for surrounding materials.
Specific Hazards	Not flammable or combustible, but burns if involved in a fire. Produces irritating fumes in fires or in contact with hot surfaces. Harmful to the aquatic environment. Prevent fire-fighting wash from entering waterway or sewer system.
Combustion Products	Produces carbon oxides (CO, CO_2), nitrogen oxides (NO_x), and silicon oxides.
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

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	Avoid releasing to the environment. 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	Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe off residues with paper towels and place the used towels in the waste 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 vapors or fumes. Use only outdoors or in a well-ventilated area.
Handling	Wear protective gloves and eye protection.
	Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.
	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.
	Store locked up.

Section 8: Exposure Controls/Personal Protection

Substances with Occupational Exposure Limit Values

Chemical Name	Country or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
1,2-propylene glycol	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	Canada AB	Not established	Not established
	Canada BC	Not established	Not established
	Canada ON	50 ppm	Not established
	Canada QC	Not established	Not established

Note: The ACGIH[1], OSHA, and Canadian provinces exposure limits were consulted. Limits from the RTECS database[2] and from suppliers' SDSs were also consulted. Short term exposure limits (STEL) are usually for 15 min and long term permissible exposure limits (PEL) for 8 h.

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: Use safety glasses with lateral protection.

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

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

Respiratory Protection — Not normally required for routine operations, but if exposed to high levels of vapors or fumes, wear respirator such as a half-mask respirator with suitable organic vapor cartridge and particulate filter.

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.

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General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

Section 9: Physical and Chemical Properties

Physical State	Liquid	**Lower Flammability Limit**	Not available
Appearance	Blue	**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 @24 °C**	1.08
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	At 70 °C [158 °F], the cumene hydroperoxide may undergo self-accelerating decomposition.
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Temperatures over 38 °C [100 °F] and incompatible substances. Do not use in a way that forms fumes, vapors, mist, or that aerosolizes the product.
Incompatibilities	Strong oxidizing agents, strong acids, strong bases, alkali or alkali earth metals
Polymerization	Will not occur
Decomposition	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, severe eye irritation, or pain.
Skin	Causes skin redness, irritation, or allergic skin reaction.
Inhalation	It may cause irritation of nose, throat and lung (upper respiratory tract).
Ingestion	Low toxicity: 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. Long term exposure to titanium dioxide dust or mist may cause cancer. Prolonged and repeated exposure may lead to skin sensitization.

Lethal Exposure Concentrations

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
polyglycol dimethacrylate	Not available	Not available	Not available
polyglycol oleate	>5 g/kg Rat	Not available	Not available
saccharin	17 000 mg/kg Rat	Not available	Not available
silica, amorphous fumed	3 160 mg/kg Rat	Not available	Not available
1,2-propylene glycol	>20 g/kg Rat	>29 800 mg/kg Rabbit	Not available
cumene hydroperoxide	382 mg/kg Rat	490 mg/kg Rabbit	220 ppm Rat
N,N-Dialkyltoluidines	Not available	Not available	Not available

Note: Toxicity data from the RTECS[2] and ECHA databases were consulted. The data from supplier SDSs were also consulted.

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Other Toxicological Effects

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory and skin sensitization (allergic reactions)	Skin sensitizer based on animal studies on polyglycol dimethacrylate.
Carcinogenicity (risk of cancer)	None of the ingredients are 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	The polyglycol dimethacrylate; silica, amorphous fumed; and cumene hydroperoxide may cause a respiratory irritation of the upper respiratory track.
STOT-repeated exposure	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. Cumene hydroperoxide is a STOT RE 2 and causes damage to lungs through prolonged or repeated exposure. Overexposure may lead to pulmonary edema.
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.

Polyglycol dimethacrylate is a class 3 chronic environmental pollutant accord to the predominant classification.

Saccharin, silica, and 1,2-propylene glycol are non-hazardous for the environment for according to GHS classification criteria.

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

Acute Ecotoxicity

See the chronic ecotoxicity.

Chronic Ecotoxicity

Category 3

Harmful to aquatic life with long lasting effects

Avoid release to the environment.

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

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.

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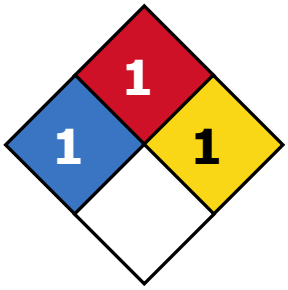
USA

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.

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)

This product does not contain any listed substances in California.

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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 the Regulatory Affairs Department

Date of Revision 28 February 2020

Supersedes 12 December 2018

Reason for Changes: Change in emergency phone numbers and general update.

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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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.

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