

THREADLOCKER, MEDIUM STRENGTH, REMOVABLE**8702-LIQUID**

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: Threadlocker, Medium Strength, Removable**SDS Code:** 8702-Liquid**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

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**☎** +1-905-331-1396**FAX** +1-800-340-0773**FAX** +1-905-331-2682**E-MAIL** support@mgchemicals.com**E-MAIL** info@mgchemicals.com**WEB** www.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 CHEMTREC ☎: **+1-800-424-9300****For emergencies involving dangerous goods;** Collect 24/7CANADA: Call CANUTEC ☎: **+1-613-996-6666** or ***666** on cellular phones

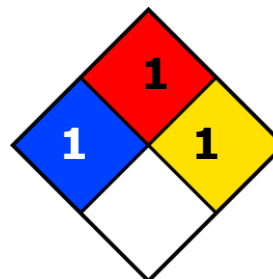
THREADLOCKER, MEDIUM STRENGTH, REMOVABLE 8702-LIQUID
Section 2: Hazard(s) Identification
Classification of the Chemical Material
GHS Categories

Criteria		Category	Signal Word	Pictograms
Eye Irritation		2	Warning	Exclamation
Sensitization	Skin sensitizer	1	Warning	Exclamation
Skin Irritation		2	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	Warning	Exclamation
Specific Target Organ Toxicity	Repeated Exposure	2	Warning	Health
Environmental Hazard	Chronic Aqua. Tox.	3	<i>None</i>	<i>None mandated</i>

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.

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)

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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
	H373: May cause damage to lung through prolonged or repeated exposure by inhalation
<i>No symbol mandated</i>	H412: Harmful to aquatic life with long lasting effects
Prevention	Precautionary Statements
P102	Keep out of reach of children.
P260	Do not breathe mist/vapors.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face 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.

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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/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/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P272	Contaminated clothing should not be allowed out of the workplace.
Storage	Precautionary Statements
P403 + P233	Store in well-ventilated area. Keep container tightly closed.
Disposal	Precautionary Statements
P501	Dispose of contents/container in accordance to local/regional/international regulations.

Hazards Not Otherwise Classified

None known

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%

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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 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>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/doctor.
IF ON SKIN	P303 + P352, P362 + P364, P333 + P313
Immediate Symptoms	<i>mild to moderate irritation, redness</i>
Response	Wash with plenty of water/shower. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
IF SWALLOWED	P301 + P330 + P331
Immediate Symptoms	<i>abdominal pain, burning sensation</i>
Response	Rinse mouth. Do not induce vomiting. Call a POISON CENTRE/doctor if you feel unwell.

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Section 5: Fire-Fighting Measures

Auto-ignition Temperature	Not established	Flash Point	>93 °C [>200 °F]	LFL [LEL] ^{b)}	N/Av
				UFL [UEL]	

In case of fire	P370 + P378
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Extinguishing Media	Use dry chemical, carbon dioxide, or chemical foam to extinguish. Use water spray to cool containers.
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Specific Hazards	Will burn if involved in a fire. Produces irritating fumes in fires or in contact with hot surfaces.
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Combustion Products	Produces carbon oxides (CO, CO ₂), nitrogen oxides (NO _x), and silicon oxides
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Fire-Fighter	Wear self-contained breathing apparatus for fire fighting
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a) Literature value, for the component with the lowest flash point.

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

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 vapors/fumes.
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Containment	Remove all sources of ignition.
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Prevent spill from entering drains and waterways. Contain with inert absorbent (such as soil, sand, vermiculite).

Cleaning	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.
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Disposal	Dispose of spill waste according to Section 13.
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Section 7: Handling and Storage

Prevention	Keep out of reach of children. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse. Keep away from heat. Do not breathe mist/vapors. Use only outdoors or in a well-ventilated area.
Handling	Wear protective gloves/eye protection. 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

Routes of Entry

Eyes, ingestion, inhalation, and skin

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 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.

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Ventilation Keep airborne concentrations below exposure limits.

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 polyethylene gloves 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 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 with water and soap after use.

THREADLOCKER, MEDIUM STRENGTH, REMOVABLE**8702-LIQUID****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	Specific Gravity @24 °C	1.08
Freezing/Melting Point	Not available	Solubility in Water	Slight
Boiling Point	≥149 °C [≥300 °F]	Partition Coefficient	Not available
Flash Point	>93 °C [>200 °F]	Auto-ignition Temperature	Not available
Evaporation Rate	Not available	Decomposition Temperature	Not available
Flammability (solid, gas)	Not available	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

THREADLOCKER, MEDIUM STRENGTH, REMOVABLE 8702-LIQUID
Section 11: Toxicological Information
Routes of Exposure

Eyes, ingestion, inhalation, and skin

Symptoms Summary

- Eyes** Causes severe eye irritation if splashed in eyes or exposed to vapors. May also cause eye redness or pain.
- Skin** May cause mild to moderate skin irritation.
- 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	TCLo inhalation
polyglycol dimethacrylate	Not available	Not available	Not available	Not available
polyglycol oleate	>5 g/kg Rat	Not available	Not available	Not available
saccharin	17 000 mg/kg Rat	Not available	Not available	Not available
silica, amorphous fumed	3 160 mg/kg Rat	Not available	Not available	Not available
1,2-propylene glycol	>20 g/kg Rat	>29 800 mg/kg Rabbit	Not available	Not available
cumene hydroperoxide	382 mg/kg Rat	490 mg/kg Rabbit	220 ppm Rat	Not available
N, N-Dialkyltoluidines	Not available	Not available	Not available	Not available

Note: Representative toxicity data from by RTECS database² of the Canadian Centre for Occupational Health and Safety (CCOHS) data from supplier MSDS were also consulted.

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THREADLOCKER, MEDIUM STRENGTH, REMOVABLE**8702-LIQUID****Other Toxicological Effects**

Skin corrosion/irritation	Moderate skin irritant.
Serious eye damage/irritation	Serious to moderate eye irritant
Respiratory and skin sensitization (allergic reactions)	Skin sensitizer based on animal studies on components
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)	No known effects
Reproductive Toxicity (risk to sex functions)	No known effects
Teratogenicity (risk of fetus malformation)	No known effects
STOT-single exposure	Respiratory irritant effects
STOT-repeated exposure	May cause damage to lungs through prolonged or repeated exposure. Overexposure may lead to pulmonary edema.
Aspiration hazard	Mixture does not contain components classified as aspiration hazards; therefore, the mixture is not an aspiration hazard.

Section 12: Ecological Information

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.

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*).

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

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

Acute Ecotoxicity

Category 3

GHS Code: Hazard Statement

H412: Harmful to aquatic life with long lasting effect

P273: Avoid release to the environment.

Chronic Ecotoxicity

Not classifiable

Persistence and Biodegradability

Not available

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Effects

Not available

Section 13: Disposal Considerations

Dispose of contents in accordance with all local, provincial, state, and federal 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

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THREADLOCKER, MEDIUM STRENGTH, REMOVABLE 8702-LIQUID**Sea**

Refer to **IMDG regulations.**

Not Regulated

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

D2B – Toxic (Skin/Eye Irritation, Skin sensitizer)

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.

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 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).

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THREADLOCKER, MEDIUM STRENGTH, REMOVABLE 8702-LIQUID**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**

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 Revision 21 July 2014
Supersedes 17 October 2013
Reason for Changes: Change to HCS 2012 format

Reference

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®)

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THREADLOCKER, MEDIUM STRENGTH, REMOVABLE 8702-LIQUID**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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