

**THREADLOCKER, HIGH STRENGTH, WICKING**

**8704-LIQUID**

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

**Product Name:** Threadlocker, High Strength, Wicking

**SDS Code:** 8704-Liquid

**Related Part #:** 8704-10ML, 8704-50ML

### Recommended Use and Restriction on Use

**Use:** Permanent, high strength, wicking thread locker for fasteners up to 1"

**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)  
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**E-MAIL** [info@mgchemicals.com](mailto:info@mgchemicals.com)

**E-MAIL** (Competent Person): [sds@mgchemicals.com](mailto: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 24/7

CANADA: Call CANUTEC ☎: **+1-613-996-6666** or **\*666** on cellular phones

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**Section 2: Hazard(s) Identification**

**Classification of the Hazardous 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
Environmental Hazard	Chronic Aqua. Tox.	3	None	None mandated

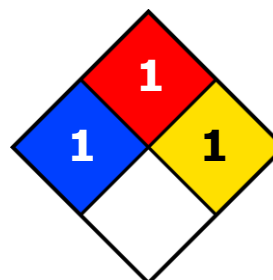
*Note:* The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

**Other Classifications**

**HMIS® RATING**

<b>HEALTH:</b>	<b>* 1</b>
<b>FLAMMABILITY:</b>	<b>1</b>
<b>PHYSICAL HAZARD:</b>	<b>1</b>
<b>PERSONAL PROTECTION:</b>	

**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**

<b>Signal Word</b>	<b>WARNING</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H319: Causes serious eye irritation H335: May cause respiratory 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
<b>Prevention</b>	<b>Precautionary Statements</b>
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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<b>Response</b>	<b>Precautionary Statements</b>
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.
<b>Storage</b>	<b>Precautionary Statements</b>
P403 + P233	Store in well-ventilated area. Keep container tightly closed.
P405	Store locked up.
<b>Disposal</b>	<b>Precautionary Statements</b>
P501	Dispose of contents/container in accordance to local/regional/international regulations.

**Hazards Not Otherwise Classified**

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

**Section 3: Composition/Information on Ingredients**

<b>CAS #</b>	<b>Chemical Name</b>	<b>% (weight)</b>
25852-47-5	polyglycol dimethacrylate	80-90%
24448-20-2	aromatic dimethacrylate	3-7%
868-77-9	2-hydroxyethyl methacrylate	3-7%
80-15-9	cumene hydroperoxide	1-2%

**THREADLOCKER, HIGH STRENGTH, WICKING****8704-LIQUID****Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
<b>IF IN EYES</b>	P305 + P351 + P338, P337 + P313
<b>Immediate Symptoms</b>	<i>redness, severe irritation, pain</i>
<b>Response</b>	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  If eye irritation persists: Get medical attention.
<b>IF INHALED</b>	P304 + P340, P312
<b>Immediate Symptoms</b>	<i>cough, irritation of the respiratory track</i>
<b>Delayed Symptoms</b>	<i>(extreme exposure) shortness of breath, wheezing</i>
<b>Response</b>	Remove person to fresh air and keep comfortable for breathing.  If feeling unwell: Call a POISON CENTER/doctor.
<b>IF ON SKIN</b>	P303 + P352, P362 + P364, P333 + P313
<b>Immediate Symptoms</b>	<i>mild to moderate irritation, rash, redness</i>
<b>Response</b>	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.
<b>IF SWALLOWED</b>	P301 + P330 + P331
<b>Immediate Symptoms</b>	<i>abdominal pain, burning sensation</i>
<b>Response</b>	Rinse mouth. Do not induce vomiting.  Call a POISON CENTRE/doctor if you feel unwell.

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### Section 5: Fire-Fighting Measures

<b>In case of fire</b>	P370 + P378
<b>Extinguishing Media</b>	Use dry chemical, carbon dioxide, or chemical foam to extinguish. Use water spray to cool containers.
<b>Specific Hazards</b>	Will burn if involved in a fire. Produces irritating fumes in fires or in contact with hot surfaces.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> )
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

### Section 6: Accidental Release Measures

<b>Personal Protection</b>	See Section 8. Avoid breathing the vapors/fumes.
<b>Containment</b>	Remove all sources of ignition. Prevent spill from entering drains and waterways. Contain with inert absorbent (such as soil, sand, vermiculite).
<b>Cleaning</b>	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.
<b>Disposal</b>	Dispose of spill waste according to Section 13.

**THREADLOCKER, HIGH STRENGTH, WICKING****8704-LIQUID****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**

There are no known exposure limits found for the ingredients in this product after searching ACGIH<sup>1</sup>, OSHA, and Canadian provinces exposure limits were consulted. Limits from by RTECS database<sup>2</sup> of the Canadian Centre for Occupational Health and Safety (CCOHS) a data from suppliers' SDS were also consulted.

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### Engineering Controls

**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 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 with water and soap after use.



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**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b>	Not available
<b>Appearance</b>	Green	<b>Upper Flammability Limit</b>	Not available
<b>Odor</b>	Mild	<b>Vapor Pressure @27 °C</b>	0.4 mmHg [ $<0.1$ kPa]
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	$>4$ (Air = 1)
<b>pH</b>	Not available	<b>Specific Gravity @21 °C</b>	1.1
<b>Freezing/Melting Point</b>	Not available	<b>Solubility in Water</b>	Slight
<b>Boiling Point</b>	$\geq 149$ °C [ $\geq 300$ °F]	<b>Partition Coefficient</b>	Not available
<b>Flash Point</b>	$>93$ °C [ $>200$ °F]	<b>Auto-ignition Temperature</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Decomposition Temperature</b>	Not available
<b>Flammability (solid, gas)</b>	Not available	<b>Viscosity @40 °C</b>	Not available

**Section 10: Stability and Reactivity**

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

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**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 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**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>	<b>TCLo inhalation</b>
polyglycol dimethacrylate	Not available	Not available	Not available	Not available
aromatic dimethacrylate	Not available	Not available	Not available	Not available
2-hydroxyethyl methacrylate	5 050 mg/kg Rat	>5 000 mg/kg Rabbit	Not available	Not available
cumene hydroperoxide	382 mg/kg Rat	490 mg/kg Rabbit	220 ppm Rat	Not available

*Note:* Representative toxicity data from by RTECS database<sup>2</sup> of the Canadian Centre for Occupational Health and Safety (CCOHS) data from supplier (M)SDS were also consulted.

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**THREADLOCKER, HIGH STRENGTH, WICKING****8704-LIQUID****Other Toxicological Effects**

<b>Skin corrosion/irritation</b>	Moderate skin irritant
<b>Serious eye damage/irritation</b>	Serious to moderate eye irritant
<b>Respiratory and skin sensitization</b> (allergic reactions)	Skin sensitizer based on animal studies on components
<b>Carcinogenicity</b> (risk of cancer)	Not classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP
<b>Mutagenicity</b> (risk of heritable genetic effects)	No known effects
<b>Reproductive Toxicity</b> (risk to sex functions)	No known effects
<b>Teratogenicity</b> (risk of fetus malformation)	No known effects
<b>STOT-single exposure</b>	Respiratory irritant effects
<b>STOT-repeated exposure</b>	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 causes damage to lungs through prolonged or repeated exposure. Overexposure may lead to pulmonary edema.
<b>Aspiration hazard</b>	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 (M)SDS 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 *Desmodemus subcapitata*).

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

The 2-hydroxyethyl methacrylate is non-hazardous (biodegradable, with minimal LC50 of 227 mg/L *Pimephales promelas* (fathead minnow); EC50 380 mg/L 48 h *Daphnia magna* (water flea); 345 mg/L 72 h *Selenastrum capricornutum*).

### **Acute Ecotoxicity**

Category 3 according to bridging principle

*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

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### Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Not Regulated

### Sea

Refer to IMDG regulations.

Not Regulated

## Section 15: Regulatory Information

### Canada

#### WHMIS 1988 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.

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### 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.

#### 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 of the listed substances.

### Europe

#### RoHS (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, or PBDE's, 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

<b>SDS Prepared by</b>	Michel Hachey
<b>Date of Revision</b>	07 May 2015
<b>Supersedes</b>	09 July 2014
<b>Reason for Changes:</b>	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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### 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](http://www.mgchemicals.com).

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