

PROJECTION TUBE COOLANT

803-LIQUID

# Safety Data Sheet

## Section 1: Identification



### Product Identifier and Other Means of Identification

**Product Identifier:** Projection Tube Coolant**Other Means Of Identification:** Not applicable**Related Part #** 803-250ML, 803-500ML

### Recommended Use and Restriction on Use

**Use:** For use in cooling projection tubes**Uses Advised Against:** Not available

### Details of Manufacturer or Importer

**Manufacturer**MG 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](mailto:support@mgchemicals.com)**WEB** [www.mgchemicals.com](http://www.mgchemicals.com) +1-905-331-1396**FAX** +1-905-331-2682**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 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

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**Section 2: Hazards) Identification**



**Classification of Hazardous Chemical**

**GHS Categories**

Criteria		Category	Signal Word	Pictograms
Acute Toxicity	Oral	4	Warning	Exclamation
Specific Target Organ Toxicity	Repeated Exposure	2	Warning	Health

*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**

<b>Signal Word</b>	<b>WARNING</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H302: Harmful if swallowed
	H373: May cause damage to organs (kidney) through prolonged or repeated exposure if swallowed
<b>Prevention</b>	<b>Precautionary Statements</b>
P102	Keep out of reach of children.
P260	Do not breathe mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
<b>Response</b>	<b>Precautionary Statements</b>
P301 + P312, P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth
P314	Get medical advice/attention if you feel unwell.

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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
None	None	None	None

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

CAS #	Chemical Name	%(weight)
107-21-1	1,2-ethanediol	70%
56-81-5	1,2,3-propanetriol	30%

**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
<b>IF SWALLOWED</b>	P301 + P312, P330
<b>Immediate Symptoms</b>	<i>abdominal pain, nausea, unconsciousness, vomiting</i>
<b>Response</b>	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
<b>IF ON SKIN</b>	P303 + P352, P314
<b>Immediate Symptoms</b>	<i>dry skin</i>
<b>Response</b>	Wash with plenty of water. Get medical advice/attention if you feel unwell.
<b>IF IN EYES</b>	P305 + P351 + P338
<b>Immediate Symptoms</b>	<i>redness, irritation, pain</i>
<b>Response</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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**PROJECTION TUBE COOLANT****803-LIQUID***Continued...*

<b>IF INHALED</b>	P304 + P340, P314
<b>Immediate Symptoms</b>	<i>cough, dizziness, headache, respiratory irritation</i>
<b>Response</b>	Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

**Section 5: Fire-Fighting Measures**

<b>Extinguishing Media</b>	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
<b>Specific Hazards</b>	Produces irritating smoke of unknown toxicity in fires. Prevent fire-fighting wash from entering waterway or sewer system.
<b>Combustion Products</b>	Produces toxic fumes and carbon oxides
<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>	Use personal protection recommended in Section 8.
<b>Precautions for Response</b>	Remove or keep away all sources of extreme heat or open flames. Do not breathe the mist/spray/vapors.
<b>Environmental Precautions</b>	Avoid releasing to the environment. Prevent spill from entering drains and waterways.
<b>Containment Methods</b>	Contain with inert and non-flammable absorbent (such as soil, sand, vermiculite).
<b>Cleaning Methods</b>	Collect liquid in a sealable, chemical-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 Methods</b>	Dispose of spill waste according to Section 13.

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**Section 7: Handling and Storage**

- Prevention** Keep out of reach of children.  
Do not breathe mist/vapors/spray.
- Handling** Wear protective gloves/protective clothing/eye protection.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.
- Storage** Not applicable.

**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)
1,2-ethanediol  (aerosol) (vapor) (particulate)  (mist/vapor)	ACGIH	Not established	100 mg/m <sup>3</sup>
	U.S.A. OSHA PEL	Not established	Not established
	Canada AB	Not established	100 mg/m <sup>3</sup>
	Canada BC	Not established	100 mg/m <sup>3</sup>
	Canada BC	Not established	50 mg/m <sup>3</sup>
	Canada BC	10 mg/m <sup>3</sup>	20 mg/m <sup>3</sup>
	Canada ON	Not established	100 mg/m <sup>3</sup>
Canada QC	Not established	127 mg/m <sup>3</sup>	
1,2,3-propanetriol (mist)	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	15 mg/m <sup>3</sup>	Not established
	Canada AB	10 mg/m <sup>3</sup>	Not established
	Canada BC	10 mg/m <sup>3</sup>	Not established
	Canada ON	10 mg/m <sup>3</sup>	Not established
Canada QC	10 mg/m <sup>3</sup>	Not established	

*Note:* Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from by RTECS database<sup>2</sup> 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.

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**PROJECTION TUBE COOLANT****803-LIQUID****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 polyvinyl alcohol (PVA), viton, or other chemically resistant gloves.

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

**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.

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**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b> <sup>a)</sup>	3.2%
<b>Appearance</b>	Clear, colorless	<b>Upper Flammability Limit</b> <sup>a)</sup>	15.3%
<b>Odor</b>	Mild	<b>Vapor Pressure @20 °C</b>	0.11 hPa [0.08 mmHg]
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	>2 (Air =1)
<b>pH</b>	Not available	<b>Specific Gravity @25 °C</b>	1.15
<b>Freezing/Melting Point</b>	Not available	<b>Solubility in Water</b>	Soluble
<b>Boiling Point</b>	182 °C [359 °F]	<b>Partition Coefficient</b>	Not available
<b>Flash Point</b> <sup>b)</sup>	111 °C [231 °F]	<b>Auto-ignition Temperature</b>	400 °C [752 °F]
<b>Evaporation Rate</b>	Not available	<b>Decomposition Temperature</b>	Not available
<b>Flammability (solid, gas)</b>	Not applicable	<b>Viscosity @40 °C</b>	Not available

a) Using Raoult's Law

b) Closed cup

**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>	Avoid excessive heat and incompatible substances. Do not use in a way that forms fumes, vapors, mist, or that aerosolizes the product.
<b>Incompatibilities</b>	Strong oxidizing agents, strong bases, strong acids
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

**PROJECTION TUBE COOLANT****803-LIQUID****Section 11: Toxicological Information****Summary of Effects and Symptoms by Routes of Exposure**

<b>Eyes</b>	Cause redness, eye irritation and pain.
<b>Skin</b>	Cause dry skin.
<b>Inhalation</b>	May cause cough, dizziness, headaches and respiratory irritation.
<b>Ingestion</b>	Cause abdominal pain, nausea, unconsciousness and vomiting
<b>Chronic</b>	May have effects on the central nervous system, resulting in abnormal eye movements (nystagmus).

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
1,2-ethanediol	7 712 mg/kg Rat	10 626 mg/kg Rabbit	Not established
1,2,3-propanetriol	12 600 mg/kg Rat	10 000 mg/kg Rabbit	Not established

*Note:* Toxicity data from the RTECS<sup>2</sup> and ECHA databases were consulted. The data from supplier SDS were also consulted.

**Other Toxicological Effects**

<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/irritation</b>	Based on available data, the classification criteria are not met.
<b>Sensitization</b> (allergic reactions)	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b> (risk of cancer)	Based on available data, the classification criteria are not met.
<b>Mutagenicity</b> (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.

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<b>Reproductive Toxicity</b> (risk to sex functions)	Based on available data, the classification criteria are not met.
<b>Teratogenicity</b> (risk of fetus malformation)	Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	If swallowed, prolonged or repeated over-exposure to 1,2-ethanediol can cause damage to kidneys.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

**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.

**Acute Ecotoxicity**

Based on available data, the classification criteria are not met.

**Chronic Ecotoxicity**

Based on available data, the classification criteria are not met.

**Biodegradability**

Readily biodegradable

**Other Effects**

Actual VOC (Volatile Organic Compounds) content according to the US (EPA) and Canadian (CEPA) authorities.

Actual VOC = 100% [1151 g/L]

**PROJECTION TUBE COOLANT****803-LIQUID****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 regulations** (Canadian Transportation of Dangerous Goods regulations);  
**USA DOT 49 CFR** (Parts 100 to 185) **Regulations.**

Non Regulated

**Air**

**Refer to ICAO-IATA Dangerous Goods Regulations.**

Non Regulated

**Sea**

**Refer to IMDG regulations.**

Non Regulated

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

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**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.

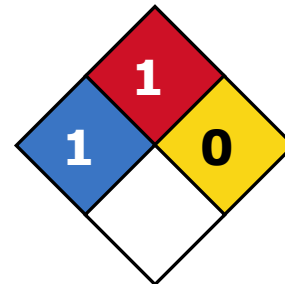
**USA**

**Other Classifications**

**HMIS® RATING**

<b>HEALTH:</b>	<b>* 1</b>
<b>FLAMMABILITY:</b>	<b>1</b>
<b>PHYSICAL HAZARD:</b>	<b>0</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)

**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 contains ethylbenzene and xylene that are listed as hazardous air pollutants.

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

This product does contains 1,2-ethanediol (CAS# 107-21-1), 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.

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**PROJECTION TUBE COOLANT****803-LIQUID**

**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity USA).

This product contains ethylene glycol (ingested), which is listed as a developmental toxic substance 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**

**SDS Prepared by** Michel Hachey

**Date of Review** 12 March 2020

**Supersedes** 11 July 2016

**Reason for Changes:** Format changes in compliance with the HCS2012 and WHMIS 2015.

**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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**PROJECTION TUBE COOLANT****803-LIQUID****Abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
ECHA	European Chemicals Agency
EU	European Union
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](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

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