

EPOXY AND ADHESIVE CLEANER

8328-LIQUID

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

**Name:** Epoxy and Adhesive Cleaner**SDS Code:** 8328-Liquid**Related Part #** 8328-500ML, 8328-1G, 8328-20L**Synonyms:** ethyl 2-hydroxypropionate; ethyl lactate

### Recommended Use and Restriction on Use

**Uses:** Uncured epoxy and adhesive cleaning solvent**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 CHEMTREC ☎: **+1-800-424-9300****For emergencies involving dangerous goods;** Collect 24/7CANADA: Call CANUTEC ☎: **+1-613-996-6666** or **\*666** on cellular phones

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

**Classification of Hazardous Chemical**

**GHS Categories**

Criteria	Category	Signal Word	Pictograms
Eye Irritation/Damage	1	Danger	Corrosion
Flammable liquid	3	Warning	Flame
Specific target organ toxicity    Single exposure	3	Warning	Exclamation

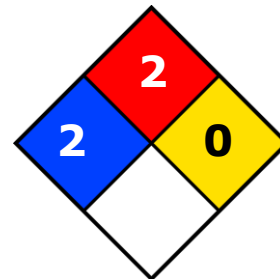
*Note:* The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity). Severity categories do not allow comparisons between classes.

**Other Classifications**

**HMIS® RATING**

<b>HEALTH:</b>	<b>2</b>
<b>FLAMMABILITY:</b>	<b>2</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)

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**Label Elements**

<b>Signal Word</b>	<b>DANGER</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H318: Causes severe eye damage
	H226: Flammable liquid and vapor
	H335: May cause respiratory irritation
<b>Prevention</b>	<b>Precautionary Statements</b>
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing fume/mist/vapours.
P271	Use only outdoors or in a well-ventilated areas.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof equipment.
P243	Take action to prevent static discharge.
P280	Wear gloves/eye/face protection.

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<b>Response</b>	<b>Precautionary Statements</b>
P305 + P351 + P358, P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor
P303 + P361+ P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
<b>Storage</b>	<b>Precautionary Statements</b>
P403 + P235	Store in well ventilated place. Keep cool.
P405	Store locked up.
<b>Disposal</b>	<b>Precautionary Statements</b>
P501	Dispose of contents/container in accordance to local/regional/national/international regulations.

**Other Hazards**

Not applicable.

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

<b>CAS #</b>	<b>Chemical Name</b>	<b>Wt%</b>
97-64-3	ethyl lactate <sup>a)</sup>	>99%

a) Also known as ethyl 2-hydroxypropionate

**EPOXY AND ADHESIVE CLEANER**
**8328-LIQUID**
**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
<b>IF IN EYES</b>	P305 + P351 + P338, P310
<b>Immediate Symptoms</b>	<i>irritation, tearing, redness, pain, blurred vision</i>
<b>Response</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.
<b>IF INHALED</b>	P304 +P340, P312
<b>Immediate Symptoms</b>	<i>respiratory irritation</i>
<b>Response</b>	Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing. If feeling unwell: Call a doctor
<b>IF ON SKIN (or hair)</b>	P303 + P361 + P353
<b>Immediate Symptoms</b>	<i>mild skin irritant</i>
<b>Response</b>	Take off immediately all contaminated clothing. Rinse skin with water/shower.
<b>IF SWALLOWED</b>	P301 + P330 + P331, P312
<b>Immediate Symptoms</b>	<i>possible irritation, nausea, vomiting</i>
<b>Response</b>	Rinse mouth. Do NOT induce vomiting. Call a doctor if you feel unwell.

**Section 5: Fire-Fighting Measures**

<b>Auto-ignition Temperature</b>	≥400 °C [752 °F]	<b>Flash Point</b>	48 °C [118 °F]	<b>LFL [LEL] <sup>a)</sup></b>	1.5%
				<b>UFL [UEL]</b>	10.6%
<b>In case of fire</b>	P370 + P378				
<b>Extinguishing Media</b>	Use dry chemical, carbon dioxide, chemical foam or water spray to extinguish.				
<b>Specific Hazards</b>	Will burn if involved in a fire. Vapours are heavier than air, and may travel to sources of ignition near the ground.				
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ).				
<b>Fire-fighters</b>	Wear self-contained breathing apparatus for fire fighting				

a) LF[E]L = Lower Flammability [or Explosion] Limit (in volume %);  
UF[E]L = Upper Flammability [or Explosion] Limit (in volume %)

**EPOXY AND ADHESIVE CLEANER****8328-LIQUID****Section 6: Accidental Release Measures**

<b>Personal Protection</b>	Use personal protection recommended in Section 8.
<b>Precautions for Response</b>	Avoid breathing the fumes/vapors. Remove all sources of ignition. Keep away from extreme heat or open flames.
<b>Environmental Precautions</b>	Do not flush to sewer.
<b>Containment Methods</b>	Prevent spill from entering drains and waterways. Contain with inert absorbent (such as soil, sand, vermiculite).
<b>Cleaning Methods</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>RECOMMENDATION:</b> Use a grounded stainless steel or carbon steel container or a solvent resistant plastic container.
<b>Disposal Methods</b>	Dispose of spill waste according to Section 13.

**Section 7: Handling and Storage**

<b>Prevention</b>	Keep out of reach of children. Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use explosion proof equipment. Take action to prevent static discharge. For large metal containers, ground and bond container and receiving equipment. Avoid breathing fume/mist/vapours. Use only outdoors or in well ventilated area. Do not eat, drink, or smoke when using this product.
<b>Handling</b>	Wear protective gloves/clothing/eye protection. Wash hands thoroughly after handling.
<b>Storage</b>	Store in a well-ventilated area. Keep cool. Keep container tightly closed. Store locked up.

**EPOXY AND ADHESIVE CLEANER****8328-LIQUID****Section 8: Exposure Controls/Personal Protection****Routes of Entry**

Eyes, ingestion, inhalation, and skin

**Substances with Occupational Exposure Limit Values**

Contains no substances with occupational exposure limits.

*Note:* The 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.

**Engineering Controls**

**Ventilation** Keep airborne exposure as low as possible.

**Personal Protective Equipment**

**Eye/Face Protection** Wear appropriate protective eyeglasses or chemical safety goggles.  
**RECOMMENDATION:** Use safety glasses with lateral protection (side shields).

**Skin Protection** Wear appropriate protective clothing to prevent skin contact.  
**RECOMMENDATION:**  
For full contact, use of protective gloves in butyl rubber.  
For splash contact, use nitrile rubber or other chemically resistant gloves.

**Respiratory Protection** If exposed to mist/vapours, wear respirator such as a half-mask respirator.  
**RECOMMENDATION:** Consult your local safety supply store to ensure your respirator has 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 vapour 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>	1.5%
<b>Appearance</b>	Colourless	<b>Upper Flammability Limit</b>	10.6%
<b>Odor</b>	Fruity	<b>Vapor Pressure @20 °C</b>	0.3 kPa [2.3 mmHg]
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	4.07 (Air = 1)
<b>pH</b>	Not available	<b>Specific Gravity @25 °C</b>	1.03
<b>Freezing/Melting Point <sup>a)</sup></b>	-26 °C [-15 °F]	<b>Solubility in Water</b>	Completely soluble
<b>Boiling Point <sup>a)</sup></b>	≥154 °C [≥309 °F]	<b>Partition Coefficient</b>	Not established
<b>Flash Point <sup>a)</sup></b>	48 °C [118 °F]	<b>Auto-ignition Temperature <sup>a)</sup></b>	≥400 °C [752 °F]
<b>Evaporation Rate</b>	0.22 (ButAc =1)	<b>Decomposition Temperature</b>	Not available
<b>Flammability (solid, gas)</b>	Not applicable	<b>Viscosity @40 °C</b>	Not available

a) Literature value

**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>	Ignition sources. Low lying vapors may form explosive mixture with air.
<b>Incompatibilities</b>	Strong oxidizing agents
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5



**EPOXY AND ADHESIVE CLEANER****8328-LIQUID****Section 11: Toxicological Information****Routes of Exposure**

Eyes, ingestion, inhalation, and skin

**Symptoms Summary**

<b>Eyes</b>	Causes severe irritation, tearing, redness, pain, blurred vision
<b>Skin</b>	May cause mild skin irritation.
<b>Inhalation</b>	May cause cough, dizziness, drowsiness, and headaches.
<b>Ingestion</b>	May cause irritation, nausea, and vomiting. (See also inhalation symptoms.)
<b>Chronic</b>	Prolonged or repeated exposure may cause skin dryness and cracking.

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
ethyl lactate	8 200 mg/kg Rat	>5 000 mg/kg Rabbit	Not available

*Note:* Representative toxicity data from by RTECS database of the Canadian Centre for Occupational Health and Safety (CCOHS)<sup>1</sup> data from supplier (M)SDS were also consulted.

**Other Toxicological Effects**

<b>Skin corrosion/irritation</b>	Mild skin irritant
<b>Serious eye damage/irritation</b>	Causes serious eye damage/irritation.
<b>Respiratory or Skin Sensitization</b> (allergic reactions)	No known effect
<b>Carcinogenicity</b> (risk of cancer)	Not classified as carcinogenic under GHS. IARC: No listed carcinogen components present at levels greater than 0.1%
<b>Mutagenicity</b> (risk of heritable genetic effects)	No data available
<b>Reproductive Toxicity</b> (risk to sex functions)	No data available

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<b>Teratogenicity</b> (risk of foetus malformation)	No data available
<b>STOT-single exposure</b>	Inhalation may cause irritation of the respiratory system
<b>STOT-repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No known aspiration toxicity

**Section 12: Ecological Information**

The ecotoxicity of the mixture was estimated by the calculation method using the summation of classified ingredients. 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.

**Acute Ecotoxicity**

Not classifiable as an acute toxicant under GHS

**Chronic Ecotoxicity**

Not classifiable as a chronic toxicant under GHS

**Persistence and Biodegradability**

This substance is considered to be easily biodegradable.

**Bioaccumulative Potential**

No data available

**Mobility in Soil**

No data available

**Other Adverse Effects**

VOC (*Volatile Organic Content*) = 100% [1 030 g/L]

VOC is in accordance to EPA, WHIMS, and Europe regulations

**Section 13: Disposal Considerations**

Dispose of contents in accordance with all local, regional, national, and international regulations.

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**Section 14: Transport Information**

**Ground**

**Refer to TDG regulations** (Canadian Transportation of Dangerous Goods regulations);  
**USA CFR 49 Regulations** (Parts 100 to 185).

Sizes 5 liter and under

**Limited Quantity**



Sizes greater than 5 liter

**UN number:** UN1192  
**Shipping Name:** ETHYL LACTATE  
**Class:** 3  
**Packing Group:** III  
**Marine Pollutant:** No



**Air**

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

Sizes 10 liter and under

**Limited Quantity**



Sizes greater than 10 liters up to 60 L

**UN number:** UN1192  
**Shipping Name:** ETHYL LACTATE  
**Class:** 3  
**Packing Group:** III  
**Marine Pollutant:** No



**Sea**

**Refer to IMDG regulations.**

Sizes 5 liter and under

**Limited Quantity**



Sizes greater than 5 liter

**UN number:** UN1192  
**Shipping Name:** ETHYL LACTATE  
**Class:** 3  
**Packing Group:** III  
**Marine Pollutant:** No



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

**EPOXY AND ADHESIVE CLEANER****8328-LIQUID****Section 15: Regulatory Information****Canada****WHMIS Classification**

B2 – Flammable Liquid; D2B – Toxic Material (eye irritation)

**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 does not contain substances that are 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.

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**EPOXY AND ADHESIVE CLEANER****8328-LIQUID****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**

<b>SDS Prepared by</b>	Michel Hachey
<b>Date of Revision</b>	11 August 2014
<b>Supersedes</b>	10 February 2014

**Reason for Changes:** Section 2 adjustments and format revision to better meet HCS 2012 requirements.

**References**

- 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®)

**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

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Quality System Certified to ISO 9001:2008

SAI Global File #004008  
Burlington, Ontario, Canada

## EPOXY AND ADHESIVE CLEANER

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**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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