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AEROSOL

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Identifier: 8329**Other means of Identification:** Epoxy Mold Release (Aerosol)**Related Part #** 8329-350G

Recommended Use and Restriction on Use

Use: For preventing epoxies from sticking to molds**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)
9347-193 Street
Surrey, British Columbia V4N 4E7
CANADA

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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 serviceCANADA—Call CANUTEC collect at **+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
Flammable Aerosol		1	Danger	Flame
Gas Under Pressure	Liquefied gas	Liquefied gas	Warning	Gas Cylinder
Aspiration Hazard		1	Danger	Health
Skin Irritation		2	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	Warning	Exclamation
Hazardous to the Aquatic Environment	Acute	1	Warning	Environment



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	DANGER
Pictograms	Hazard Statements
	H222: Extremely flammable aerosol
	H280: Contains gas under pressure; may explode if heated
	H304: May be fatal if swallowed and enters airways

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Signal Word	DANGER
Pictograms	Hazard Statements
	H315: Causes skin irritation H336: May cause drowsiness or dizziness
	H400: Very toxic to aquatic life
Prevention	Precautionary Statements
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, flames, and other ignition sources. No Smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing mist, vapours, and spray.
P271	Use only outdoors or in a well-ventilated area.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves, eye protection, and face protection.
P273	Avoid release to the environment.
Response	Precautionary Statements
P302 + P352	IF ON SKIN: Wash with plenty water.
P332 + P313	If skin irritation occurs: Get medical advice or attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P304 + P340, P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331	Do NOT induce vomiting.
P391	Collect spillage.

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Storage	Precautionary Statements
P410 + P412 + P403	Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F]. Store in a well-ventilated place.
P405	Store locked up.
Disposal	Precautionary Statements
P501	Dispose of container in accordance to local, regional, national, and international regulations.

Hazards Not Otherwise Classified

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

Section 3 : Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
142-82-5	heptane	63%
74-98-6	propane	23%
75-28-5	isobutane	11%
64742-49-0	odorless mineral oil	3%

Section 4: First-Aid Measures

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
IF ON SKIN	P302 + P352, P332 + P313, P362 + P364
Immediate Symptoms	<i>dry skin, irritation</i>
Response	Wash with plenty water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse.

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IF INHALED	P304 + P340, P312
Immediate Symptoms	<i>dizziness, drowsiness, cough, headaches, or nausea</i>
Response	Remove person to fresh air and keep comfortable for breathing. If feeling unwell: Call a POISON CENTRE or doctor.
IF SWALLOWED	P301 +P310, P331
Immediate Symptoms	<i>nausea, sore throat, diarrhea, or vomiting</i>
Response	IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
IF IN EYES	P305 + P351+ P338, P337 + P313
Immediate Symptoms	<i>mild irritation, redness, pain</i>
Response	Rinse cautiously with water for 15 minutes or more. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Section 5: Fire-Fighting Measures

Extinguishing Media	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish. Use water spray to cool containers.
Specific Hazards	Aerosol container may erupt with force at temperatures above 50 °C [122 °F]. The vapors are heavier than air and may accumulate in low-lying areas. Vapors may travel long distances and ignite at an ignition source, which can cause a flashback or an explosion.
Combustion Products	Produces carbon oxides (CO, CO ₂).
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

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Section 6: Accidental Release Measures

Personal Protection	Use personal protection recommended in Section 8.
Precautions for Response	Avoid breathing the mist, spray, and vapors. Remove or keep away all sources of extreme heat or open flames.
Environmental Precautions	Avoid releasing to the environment. Prevent spill from entering drains and waterways.
Containment Methods	Not applicable
Cleaning Methods	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.
Disposal Methods	Dispose of spill waste according to Section 13.

Section 7: Handling and Storage

Prevention	Keep out of reach of children. Keep away from heat, hot surfaces, sparks, flames, and other ignition sources. No Smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing mist, vapours, and spray.
Handling	Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling. Avoid release to the environment.
Storage	Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F]. Store in a well-ventilated place. Store locked up.

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)
heptane	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	400 ppm 500 ppm 400 ppm 400 ppm 400 ppm 400 ppm	500 ppm Not established 500 ppm 500 ppm 500 ppm 500 ppm
propane	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	See footnote a) 1000 ppm 1000 ppm 1000 ppm 1000 ppm 1000 ppm	Not established Not established Not established Not established Not established Not established
isobutane <i>alkane (C2-C4)</i> <i>aliphatic hydrocarbon</i> <i>gas</i>	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	See footnote a) Not established 1 000 ppm 1 000 ppm 800 ppm Not established	Not established Not established Not established Not established Not established Not established
odorless mineral oil	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	See hexane PEL See hexane PEL See hexane PEL See hexane PEL See hexane PEL See hexane PEL	Not established Not established Not established Not established Not established Not established

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS² database and from supplier's (M)SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) Refer to the ACGIH Appendix F: Minimum Oxygen Content for Asphyxia TLV Basis

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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 (side shields).

Skin Protection Use of protective gloves chemically resistant gloves if skin contact is likely.

For incidental exposure, you may use nitrile 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

Physical State	Liquid, aerosol format	Lower Flammability Limit	0.5%
Appearance	Colorless	Upper Flammability Limit	9.5%
Odor	Hydrocarbon	Vapor Pressure @20 °C	448-551 kPa [65-80 psi]
Odor Threshold	Not available	Vapor Density	>1 (Air =1)
pH	Not available	Relative Density @25 °C	0.7
Freezing/Melting Point	Not available	Solubility in Water	Negligible
Initial Boiling Point	205 °C [401 °F]	Partition Coefficient n-octanol/water	Not available
Flash Point	-7 °C [19.4 °F]	Auto-ignition Temperature	Not available
Evaporation Rate	>1 (Ether =1)	Decomposition Temperature	Not available
Flammability	Extremely Flammable	Viscosity @40 °C	<20.5 mm ² /s

Section 10: Stability and Reactivity

Reactivity	Not available.
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Temperatures above 50 °C [122 °F], open flames, and incompatible substances
Incompatibilities	Strong oxidizing agents and strong acids
Polymerization	Will not occur
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

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Section 11: Toxicological Information
Summary of Effects and Symptoms by Routes of Exposure

Eyes	May cause mild irritation, redness, or pain.
Skin	May cause dry skin and irritation.
Inhalation	May cause dizziness, drowsiness, cough, headaches, or nausea.
Ingestion	May cause nausea, sore throat, diarrhea, or vomiting (see inhalation symptoms).
Chronic	Prolonged or repeated exposure may cause skin dryness, cracking, as well as defatting the skin.

Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
heptane	≥5 000 mg/kg Rat ^{a)}	≥2 000 mg/kg Rabbit ^{a)}	103 mg/L Rat 4 h
propane	Not applicable	Not applicable	>800 000 ppm Rat 4 h
isobutane	Not applicable	Not applicable	>570 000 ppm Rat 4 h
odorless mineral oil	≥5 000 mg/kg Rat	≥2 000 mg/kg Rabbit	Not available

Note: Limits from by RTECS² and ECHA databases were consulted. Data from suppliers' SDS were also consulted.

a) Toxicity values from key ECHA registrant studies

Other Toxicological Effects

Skin corrosion/irritation	Heptane and odorless mineral spirit causes skin irritation.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Sensitization (allergic reactions)	Based on available data, the classification criteria are not met.
Carcinogenicity (risk of cancer)	None of the ingredients are classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP

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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	Heptane and odorless mineral spirit can affect the central nervous system by inhalation causing drowsiness or dizziness.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Mixture containing more than 10% Class 1 aspiration toxicant and having a viscosity <20.5 mm ² /s.

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.

The odorless mineral spirit component is classified as chronic category 2 environmental toxicant.

The heptane component is an acute category 1 aquatic toxicant (with minimal LC50 96 h of 4 mg/L for *Carassius auratus* (gold fish); EC 50 48 h 13 500 mg/L *Daphnia magna* (water flea)).

Propane and Isobutane do not meet classification criteria for aquatic environmental toxicants.

Acute Ecotoxicity

Category 1

Very toxic to aquatic life

Chronic Ecotoxicity

Available toxicity data does not meet classification thresholds

Biodegradability

Not available

Other Effects

Not available

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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.**

Sizes 1 L and under
Limited Quantity



Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 1 L and under
Limited Quantity

See package instruction Y203

Max Net Qty/Pkg 30 kg G



FOR REFERENCE ONLY

UN number: UN1950

Shipping Name: AEROSOLS, flammable

Class: 2.1

Packing Group: Not applicable

Marine Pollutant: Yes

Sea

Refer to IMDG regulations.

Sizes 1 L and under
Limited Quantity

See special provision SP277



FOR REFERENCE ONLY

UN number: UN1950

Shipping Name: AEROSOLS, flammable

Class: 2.1

Packing Group: Not applicable

Marine Pollutant: Yes

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)

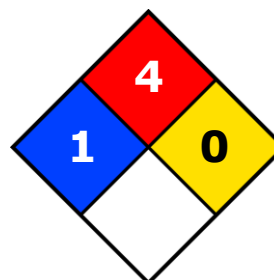
All hazardous ingredients are listed on the DSL/NDSL.

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.

USA
Other Classifications
HMIS® RATING

HEALTH:	1
FLAMMABILITY:	4
PHYSICAL HAZARD:	0
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 does not contain any chemicals 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, USA).

This product does not contain any listed substances in California.

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8329**AEROSOL****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** MG Chemicals' Regulatory Department**Date of Review** 09 March 2020**Supersedes** 26 August 2019**Reason for Changes:** Update to the emergency phone number information.**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®)

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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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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