

# Safety Data Sheet

**Section 1: Identification** 

# **Product Identifier and Other Means of Identification**

Product Name: 9460

**Other Means of Identification:** One-Part Epoxy Thermally Conductive Adhesive, High Tg **Related Part #** 9460-10ML, 9460-300ML

# **Recommended Use and Restriction on Use**

Use: Thermally conductive adhesive

Uses Advised Against: Not for use as a spray coating

# **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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E-маіц (Competent Person): <u>sds@mgchemicals.com</u>

# **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



# Section 2: Hazard(s) Identification

# **Classification of Hazardous Chemical**

# **GHS Categories**

Criteria		Category	Signal Word	Pictograms
Specific Target Organ Toxicity	Repeated Exposure	1	Danger	Health
Germ Cell Mutagenicity		2	Warning	Health
Sensitization	Skin	1	Warning	Exclamation
Eye Irritation		2A	Warning	Exclamation
Skin Irritation		2	Warning	Exclamation
Hazardous to the Aquatic Environment	Chronic	2	None	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
~	H317: May cause an allergic skin reaction
	H319: Causes serious eye irritation
	H315: Causes skin irritation
	H372: Causes damage to organs (skin, blood, kidney, lungs) through prolonged or repeated exposure
	H341: Suspected of causing genetic defects
	H411: Toxic to aquatic life with long lasting effects
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Continued	
Prevention	Precautionary Statements
P102	Keep out of reach of children.
P201, P202	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
P260	Do not breathe fumes or vapors.
P280	Wear protective gloves, protective clothing, and eye protection.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
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 advice or attention.
P302 + P352	IF ON SKIN: Wash with plenty water.
P333 + P313	If skin irritation or rash occurs: Get medical advice or attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P308 + P313	IF exposed or concerned: Get medical advice or attention.
P314	Get medical advice or attention if you feel unwell.
P391	Collect spillage.
Storage	Precautionary Statements
P405	Store locked up.
Disposal	Precautionary Statements
P501	Dispose of contents in accordance to local, regional, national, and 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)
1344-28-1	aluminium oxide	47%
25085-99-8	bisphenol-A-(epichlorhydrin)	24%
1314-13-2	zinc oxide	19%
26761-45-5	2,3-epoxypropyl neodecanoate	2%
9003-35-4	phenol, polymer with formaldehyde	1%
25068-38-6	bisphenol-A epoxy resin (reaction product)	1%
1333-86-4	carbon black	0.4%
68609-97-2	alkyl glycidyl ether	0.3%

# Section 4: First-Aid Measures

Exposure Condition	GHS Code/Symptoms/Precautionary Statements	
IF ON SKIN	P302 + P352, P362 + P364, P333 + P313, P308 + P313	
Immediate	redness, irritation, allergic contact dermatitis	
Response	Wash with plenty water.	
	Take off contaminated clothing and wash it before reuse.	
	If skin irritation or rash occurs: Get medical advice or attention.	
	IF exposed or concerned: Get medical advice or attention.	
IF IN EYES	P305 + P351 + P338, P337 + P313, P308 + P313	
Immediate Symptoms	redness, serious irritation, pain	
Response	Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
	If eye irritation persists: Get medical advice or attention.	
	IF exposed or concerned: Get medical advice or attention.	
IF INHALED	P304 + P340, P308 + P313	
Immediate Symptoms	low toxicity: no symptoms known or expected	
Response	Remove person to fresh air and keep comfortable for breathing.	
	IF exposed or concerned: Get medical advice/attention.	

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IF SWALLOWED	P301 + P330 + P331, P308 + P313
Immediate Symptoms	abdominal pain, diarrhea, nausea, vomiting
Response	Rinse mouth. Do NOT induce vomiting.
	IF exposed or concerned: 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.
Specific Hazards	Not flammable or combustible, but burns if involved in a fire. Produces irritating smoke of unknown toxicity in fires.
	Prevent fire-fighting wash from entering waterway or sewer system.
<b>Combustion Products</b>	Produces carbon oxides (CO,CO $_2$ ), phenolics, and other toxic fumes.
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

# Section 6: Accidental Release Measures

<b>Personal Protection</b>	See personal protection recommendations in Section 8.
Precautions for Response	Do not breathe fumes or 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.
<b>Containment Methods</b>	Not applicable—not readily flowable.
Cleaning Methods	Collect liquid in a sealable, chemical-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wash residue with a paper towel wetted with alcohol, ethyl lactate, or another suitable organic solvent; and place dirty towels in container. Use 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.	
	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.	
	Do not breathe fumes or vapors. Contaminated work clothing should not be allowed out of the workplace.	
	Avoid release to the environment.	
Handling	Wear protective gloves and eye protection. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.	
	Do not eat, drink or smoke when using this product.	
	Collect spillage.	
Storage	Store locked up.	
	<b>RECOMMENDATION:</b> Keep in a dry and clean area, away from incompatible substances.	

# **Section 8: Exposure Controls/Personal Protection**

# **Substances with Occupational Exposure Limit Values**

Chemical Name	Country or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
aluminum metal	ACGIH	1 mg/m <sup>3</sup>	Not established
and insoluble	U.S.A. OSHA PEL	15 mg/m <sup>3</sup>	Not established
compounds <sup>a)</sup>	Canada AB	10 mg/m <sup>3</sup>	Not established
	Canada BC	$1 \text{ mg/m}^3$	Not established
	Canada ON	1 mg/m <sup>3</sup>	Not established
	Canada QC	10 mg/m <sup>3</sup>	Not established
zinc oxide	ACGIH	2 mg/m <sup>3</sup>	Not established
(dust/mist)	U.S.A. OSHA PEL	2 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
	Canada AB	2 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
	Canada BC	2 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
	Canada ON	$2 \text{ mg/m}^3$	10 mg/m <sup>3</sup>
fumes	Canada QC	2 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
dust	Canada QC	10 mg/m <sup>3</sup>	Not established

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Chemical Name	Country or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
carbon black <sup>a)</sup>	ACGIH	3.5 mg/m <sup>3</sup>	Not established
	U.S.A. OSHA PEL	3.5 mg/m <sup>3</sup>	Not established
	Canada AB	3.5 mg/m <sup>3</sup>	Not established
	Canada BC	3.5 mg/m <sup>3</sup>	Not established
	Canada ON	3.5 mg/m <sup>3</sup>	Not established
	Canada QC	3.5 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 the RTECS database<sup>2</sup> and from suppliers' SDS were also consulted. Short term exposure limits (STEL) are usually for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) Respirable airborne particles.

# **Engineering Controls**

Ventilation

Keep airborne concentrations below the occupational exposure limits (OEL).

Because the carbon black is bound to the liquid mixture, it does not present an airborne hazard under normal use. Ensure adequate ventilation if the product is mechanically misted or aerosolized.

# **Personal Protective Equipment**

Eye protection	Wear appropriate protective eyeglasses or chemical safety goggles.
	<b>Recommendation:</b> Ensure that glasses have side shields for lateral protection.
Skin Protection	For incidental contacts, use nitrile, latex, neoprenee or other chemically resistant gloves.

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**Respiratory Protection** For over-exposures up to 10 x OEL of vapors, 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.

If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

**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.

# Section 9: Physical and Chemical Properties

Physical State	Solid	Lower Flammability Limit	Not available
Appearance	Black	Upper Flammability Limit	Not available
Odor	Mild	Vapor Pressure @20 °C	Not available
Odor Threshold	Not available	Vapor Density	Not available
рН	Not available	Relative Density @25 °C	2.15
Freezing/Melting	Not	Solubility in	Insoluble
Point	available	Water	
Initial Boiling	≥150 °C	Partition Coefficient	Not
Point <sup>a)</sup>	[≥302 °F]	n-octanol/water	available
Flash Point	126 °C	Auto-ignition	Not
	[259 °F]	Temperature	available
Evaporation	Not	Decomposition	Not
Rate	available	Temperature	available
Flammability	Not	Viscosity	>20.5 mm <sup>2</sup> /s
(solid, gas)	available	@40 °C	

a) Values based on bisphenol-A epoxy resin, which is the component with the lowest value.

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# Section 10: Stability and Reactivity

Reactivity	Reacts exothermically with amines.
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures.
Conditions to Avoid	Avoid ignition sources, open flames, and incompatible substances. Do not use in away that forms mist or aerosolizes the product.
Incompatibilities	Avoid oxidizing agents, acids, bases and peroxides.
Polymerization	Will not occur
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

# Section 11: Toxicological Information

# Summary of Effects and Symptoms by Routes of Exposure

Eyes	May cause redness, serious irritation, or pain.
Skin	Causes skin redness, irritation, or allergic contact dermatitis.
Inhalation	Low toxicity: no symptoms known or expected.
Ingestion	May cause abdominal pain, diarrhea, nausea, and vomiting.
Chronic	Prolonged and repeated exposure may lead to skin sensitization.

# Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
aluminum oxide	>5 000 mg/kg	Not	Not
	Rat <sup>a)</sup>	established	established
zinc oxide	7 950 mg/kg	Not	2 500 mg/m <sup>3</sup>
	Mouse	established	Mouse
2,3-epoxypropyl	9 600 mg/kg	3 800 mg/kg	Not
neodecanoate	Rat <sup>a)</sup>	Rat <sup>a)</sup>	established

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Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
phenol, polymer with formaldehyde	>5 000 mg/kg	>2 000 mg/kg	Not
	Rat	Rat	established
bisphenol-A epoxy resin	>15 000 mg/kg	23 000 mg/kg	Not
(reaction product)	Rat <sup>a)</sup>	Rabbit <sup>a)</sup>	established
carbon black	>15.4 g/kg	>3 g/kg	Not
	Rat	Rabbit	established
alkyl glycidyl ether	19 200 mg/kg	4 500 mg/kg	Not
	Rat	Rat	established

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

a) Supplier SDS

# **Other Toxicological Effects**

Skin corrosion/irritation	Bisphenol-A, 2,3-epoxypropyl neodecanoate, and alkyl glycidyl ether are known skin irritants.
Serious eye damage/irritation	Bisphenol-A, 2,3-epoxypropyl neodecanoate, and phenol, polymer with formaldehyde cause serious eye irritation.
Sensitization (allergic reactions)	Bisphenol-A, 2,3-epoxypropyl neodecanoate, phenol, polymer with formaldehyde, and alkyl glycidyl ether are known skin sensitizers.
	Animal studies show that epoxy components may cause skin sensitization.
<b>Carcinogenicity</b> (risk of cancer)	The carbon black [1333-86-4] is possibly carcinogenic by airborne routes of exposures under WHMIS.
	Because the carbon black is bound in the epoxy liquid mixture, it is not available as an airborne hazard (dust, mist, or spray) under normal use.
	Carbon Black [1333-86-4]
	IARC Group 2B: Possibly carcinogenic to humans
	ACGIH A4: Not classified as a human carcinogen
	CA Prop 65: Listed as a carcinogen (airborne, as unbound particles of respirable size)
	NTP: Not listed
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Mutagenicity (risk of heritable genetic effects)	2,3-epoxypropyl neodecanoate is suspected of causing genetic defects.
<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.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	2,3-epoxypropyl neodecanoate can cause damage to skin, blood, kidneys and lungs.
Aspiration hazard	There are no category 1 components, and the kinematic viscosity is >20.5 mm <sup>2</sup> /s at 40 °C.

# 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 (<u>http://echa.europa.eu</u>), and other reliable sources.

In Europe, similar epoxy resin mixtures with CAS# 25085-99-8 and 25068-38-6 are generally classified as chronic category 2 marine pollutant due to LC50 96 h of >1 mg/L but  $\leq$ 10 mg/L.

Contains zinc oxide which is an acute and chronic category 1 solid (non-biodegradable, minimal LC50 of 0.042 mg/L) that is very toxic to aquatic life.

2,3-epoxypropyl neodecanoate, phenol, polymer with formaldehyde, carbon black, and alkyl glycidyl ether are not classifiable as ecotoxic hazards under GHS criteria.

# **Acute Ecotoxicity**

See chronic ecotoxicity.

# **Chronic Ecotoxicity**

Category 2 Toxic to aquatic life with long lasting effects Avoid release to the environment. Collect spillage.

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#### **Biodegradability**

Not readily biodegradable

#### Bioaccumulation

Not available

# **Other Effects**

Not available

# **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 under 450 kg	
9460-10ML, 9460-300ML	FOR REFERENCE ONLY
NOT REGULATED in TDG	UN number: UN3077
per Special Provisions 99	Shipping Name: ENVIRONMENTALLY
Sizes 5 kg and under	HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	(zinc oxide, bisphenol-A-(epichlorhydrin),
	reaction product of epoxy resin)
NOT REGULATED in 49 CFR	Class: 9
per exception $171.4$ (c)(2)	Packing Group: III
	Marine Pollutant: Yes

**Special Provision 99 (2)**: These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety.

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#### Air

#### Refer to ICAO-IATA regulations.

Sizes 5 kg and under 9460-10ML, 9460-300ML **NOT REGULATED** On air waybill, write: "Not Restricted, as per Special Provisions A197"

**Special Provision A197**: These substances when transported in single or combination packagings containing net quantity per single or inner packaging of less than 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

# Sea

#### Refer to IMDG regulations.

Sizes 5 kg and under 9460-10ML, 9460-300ML NOT REGULATED per 2.10.2.7

**2.10.2.7**: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provision of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class, all provisions of this Code relevant to any additional hazards continue to apply.

# *Note:* Shipper must be appropriately <u>trained and certified</u> before involvement with the transport of dangerous goods.



# 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**

HEALTH:	*	2
FLAMMABILITY:		1
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 contains aluminum oxide (CAS# 1344-28-1) and zinc compounds (CAS# 1314-13-2) which can be subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372 under certain conditions.

**TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

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**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, June 06, 2014 revision, USA).

This product contains carbon black, but it is bound and exposures during normal conditions of uses are below the Safe Harbor Threshold.

#### 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	04 March 2020
Supersedes	29 May 2017
Reason for Changes:	Change to emergency phone numbers.

#### 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®)

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#### Abbreviations

- ACGIH American Conference of Governmental Industrial Hygienists (USA)
- 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 <u>www.mgchemicals.com</u>.

Email: <a href="mailto:support@mgchemicals.com">support@mgchemicals.com</a>

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