

SAI Global File #004008 Burlington, Ontario, Canada

832TC-PART B

THERMALLY CONDUCTIVE EPOXY

Safety Data Sheet

Section 1: Product and Company Identification

Product Identifier and Other Means of Identification

Product Name: Thermally Conductive Epoxy: Encapsulating and Potting Compound

SDS Code: 832TC-Part B

Related Part #: 832TC-450ML, 832TC-2L, 832TC-8L, 832TC-40L

Recommended Use and Restriction on Use

Use: Thermally conductive epoxy hardener for use with resins to pot devices or encapsulate

components

Uses Advised Against: Not available

Details of Manufacturer or Importer

Manufacturer

MG Chemicals 1210 Corporate Drive Burlington, Ontario L7L 5R6 CANADA

1-800-340-0772 **FAX** 1-800-340-0773

E-MAIL: <u>support@mqchemicals.com</u>

WEB www.mgchemicals.com

MG Chemicals (Head Office)

9347-193 Street

Surrey, British Columbia V4N 4E7

CANADA

1-905-331-1396 **FAX** 1-905-331-2682

E-MAIL: info@mgchemicals.com

E-MAIL (Competent Person): 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 **2:** 1-613-996-6666 or *666 on cellular phones



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Section 2: Hazards Identification

Classification of Hazardous Chemical

WHMIS Classification







E – Corrosive; D1B Immediately Toxic (Skin Absorption); D2A – Very Toxic (Reproductive toxicant; Carcinogenicity IARC: 2B), D2B – Toxic Material (Skin Sensitization in Humans)

GHS Categories

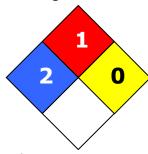
Criteria		Category	Signal Word	Pictograms
Reproductive Toxicity		1	Danger	
Eye Irritation		2A	Warning	
Skin Irritation		2	Warning	
Sensitization	Skin Sensitizer	1	Warning	
Environmental Hazard	Chronic Aqua. Tox.	2	Warning	^
Environmental Hazard	Acute Aqua. Tox.	2	_	\$

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)

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Label Elements

Signal Word	DANGER			
Pictograms	Hazard Statements			
	H360: May damage fertility or the unborn child			
_	H319: Causes serious eye irritation			
	H317: May cause allergic skin reaction			
\	H315: Causes skin irritation			
*	H411: Toxic to aquatic life with long lasting effects			
	Precautionary Statements			
Prevention	P280: Wear protective gloves/eye protection.			
	P261: Avoid breathing vapors/dust/fumes.			
	P264: Wash hands thoroughly after handling.			
	P273: Avoid release to the environment.			
Response	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
	P302 + P352 + P361 + P364: IF ON SKIN: Wash with plenty of water. Take off immediately all contaminated clothing and wash before reuse.			
	P337 + P313: If eye or skin irritation persists or rash occurs: Get medical advice/attention			
	P362 + P364: Take off contaminated clothing and wash it before reuse			
Storage	P405: Store locked up.			
Disposal	P391: Collect spillage.			
	P501: Dispose of contents/container in accordance to local/regional/national/international regulations.			

Other Hazards

Not applicable



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Section 3: Hazardous Ingredients

CAS#	Chemical Name	Wt%
1344-28-1	aluminum oxide (non-fibrous) ^{a)}	45-55%
68071-65-8	Fatty acids, C18-unstad., dimers, polymers with tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine	25-35%
100-51-6	benzyl alcohol	7–13%
112-24-3	triethylenetetramine	1.5-2.2%
64741-65-7	Naphtha, petroleum, heavy alkylate	0.5-1.5%
108-65-6	2-methoxy-1-methylethyl acetate	0.5-1.5%
1333-86-4	carbon black	0.5-1%
872-50-4	1-methyl-2-pyrrolidone	0.1-0.2%

a) non-hazardous under OSHA-GHS and WHMIS



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Section 4: First Aid Measures			
Exposure Condition	GHS Code: Precautionary Statement		
IF IN EYES	P305		
Symptoms	Immediate: severe irritation, redness, pain		
Response If eye irritation persists	P351: Rinse cautiously with water for several minutes. P338: Remove contact lenses, if present and easy to do. Continue rinsing. P313: Get medical advice/attention		
IF ON SKIN	P302		
Symptoms	Immediate: <i>irritation, redness, dry skin</i> ; Delayed: <i>rash</i>		
Response	P352: Wash with plenty of water. P362 + P364 + P272: Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace.		
If skin irritation or rash occurs, or concerned	P313: Get medical advice/attention		
IF INHALED	P304 (Not a likely route of exposure under normal use)		
Symptoms	Immediate: respiratory system irritation, cough		
Response If feeling unwell	P340: Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing. P312: Call a POISON CENTRE/doctor		
IF SWALLOWED	<u> </u>		
	P301 (Not a likely route of exposure under normal use)		
Symptoms	Immediate: Abdominal pain, irritation, nausea, vomiting, diarrhea		
Response	P330: Rinse mouth.		
If feeling unwell	P331: Do NOT induce vomiting. P312: Call a POISON CENTRE/doctor		



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Section 5: Fire Fighting Measures

Auto-ignition Not **Flash Point** a) >93 °C **LFL [LEL]**b) Not

Temperature Established [>199 °F] **UFL [UEL]** Established

In case of fire P370

Response P378: Use dry chemical, carbon dioxide, or chemical foam to

extinguish. Use water spray to cool containers.

Combustion Products Produces aluminum oxides, carbon oxides (CO, CO₂), nitrogen

oxides (NOx), and some chlorinated compounds.

Fire-Fighter Wear self-contained breathing apparatus for fire fighting

General Information Prevent fire-fighting wash from entering waterway or sewer

system.

Note: The GHS codes and the GHS precaution statements are used. The format is *GHS Codes: Statements*.

a) Supplier value for the component with the lowest know flash point

b) LFL = Lower Flammability [or Explosion] Limit (in volume %); UFL = Upper Flammability [or Explosion] Limit (in volume %)

Section 6: Accidental Release Measures

Personal Protection: See Section 8. Avoid breathing the mist/vapors.

Containment Remove all sources of ignition.

Cleaning Collect liquid in a sealable, solvent-resistant container. Sprinkle inert

absorbent compound onto spill, then sweep into the container. Wipe up further residue with paper towel wetted with alcohol (or other suitable organic solvent) and place dirty towels in container. Wash spill area with soap and

water to remove the last traces of residue.

RECOMMENDATION: Use a plastic container.

Disposal Dispose of spill waste according to Section 13.



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Section 7: Handling and Storage

Prevention P261: Avoid breathing vapors/dust/fumes.

P270: Do not eat, drink, or smoke when using this product.

RECOMMENDATION: Protect from high heat. Do NOT process in a fashion that

causes mist or fumes.

Handling P280: Wear protective gloves/clothing/eye protection.

RECOMMENDATION: Wear neoprene, butyl rubber, nitrile or other impervious

gloves with breakthrough time greater than intended use period.

P264: Wash hands thoroughly after handling.

Storage P403 + P233+ P235: Keep Container tightly closed. Store in a well-ventilated

area. Keep cool.

RECOMMENDATION: Keep in a dry and clean area, away from incompatible

substances.

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Section 8: Exposure Controls/Personal Protection

Routes of Entry

Eyes, ingestion, inhalation, and skin

Substances with Occupational Exposure Limit Values

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
Alumina ^{a)}	ACGIH	1 mg/m ³	_
	U.S.A. OSHA PEL	15 mg/m ³	_
	Canada AB	10 mg/m ³	_
	Canada BC	1 mg/m ³	_
	Canada ON	1 mg/m ³	_
	Canada QC	10 mg/m ³	_
Triethylenetetramine	ACGIH	—	_
	U.S.A. (WEĘL)	1 ppm	_
	Canada ON ^{a)}	0.5 ppm	_
2-methoxy-1-	ACGIH	—	_
methylethyl acetate	U.S.A. (WEEL)	100 ppm	_
	Canada BC	50 ppm	75 ppm
	Canada ON	50 ppm	_
Carbon black ^{a)}	ACGIH	3.5 mg/m ³	_
	U.S.A. OSHA PEL	3.5 mg/m ³	_
	Canada AB	3.5 mg/m ³	_
	Canada BC	3 mg/m ³	_
	Canada ON	3.5 mg/m ³	_
	Canada QC	3.5 mg/m ³	_
1-Methyl-2-	ACGIH	_	_
pyrrolidone	Canada ON	400 mg/m ³	_

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH², OSHA, and Canadian provinces exposure limits were consulted. Limits from by RTECS database¹ of the Canadian Centre for Occupational Health and Safety (CCOHS) a 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. a) Skin—can be absorbed through the skin.

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Engineering Controls

Ventilation

Keep airborne concentrations below exposure limits. Because carbon black is bound to the liquid mixture; the airborne hazard is present only if the conditions of use could result in aerosolization or misting.

RECOMMENDATION: If the product is heated at high temperatures or worker is allergic, consider using a full mask with organic vapor cartridges.

Personal Protective Equipment

Eye 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: Use of protective gloves in butyl rubber,

latex, neoprene, or other chemically resistant gloves.

Respiratory Protection If exposed to vapors, 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 MSDS, 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 thoroughly with water and soap after handling.



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Section 9: Physical and Chemical Properties				
Physical State	Liquid	Appearance	Black	
Odor	Slight aromatic	Odor Threshold	Not established	
pН	Not available	Specific Gravity	1.75	
Solubility in Water	Insoluble	Freezing/Melting Point	Not available	
Flash Point ^{a)}	>93 °C [>199 °F]	Vapor Pressure b) @ 20 °C	<0.1 kPa [<1 mmHg]	
Boiling Point	Not available	Evaporation Rate	Not available	
Lower Flammability Limit	Not available	Upper Flammability Limit	Not available	
Auto-ignition Temperature	Not available	Decomposition Temperature	Not available	
Viscosity @25 °C	9 400 cSt	Vapor Density	>1 (Air = 1)	
Partition Coefficient	Not available			

- a) The closed cup flash point for component with the lowest reported value.
- b) Based on supplier value of main hardener system

Section 10: Stability and Reactivity

Stabilities	Chemically stable at normal temperatures and pressures
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Conditions to Excessive heat, moisture, and incompatible substances. Do not use in

Avoid

a way that forms a mist or aerosolize the product

Incompatibilities Strong oxidizing agents, strong acids, strong bases, halogenated

hydrocarbons

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

Routes of Exposure

Eyes, ingestion, inhalation, and skin

Symptoms Summary

Eyes Causes severe eye irritation. Also causes eye redness and pain.

Skin May cause moderate skin irritation. May cause rash due to allergic skin

reactions. Triethylenetetramine and 1-methyl-2-pyrrolidone can be

absorbed through skin leading to toxic effects.

Inhalation Inhalation of vapors or mist may cause irritation to the nose, throat and

lung (upper respiratory tract).

When heated, hot triethylenetetramine vapors may also result in itching of

the face with skin redness (erythema) and swelling (edema).

Ingestion Not a likely route of exposure. See skin and inhalations symptoms.

Chronic Prolonged or repeated exposure to the uncured epoxy hardener may cause

sensitization (allergies).

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Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50	LD50	LC50	TCLo
	oral	dermal	inhalation	inhalation
aluminum oxide	Not	Not	Not	Not
	established	established	established	established
fatty acids, C18-unsatd., dimers, (CAS# 68071-65-8)	Not established	Not established	Not established	Not established
benzyl alcohol	1 230 mg/kg	2 000 mg/kg	Not	Not
	Rat	Rabbit	established	established
triethylenetetramine	2 500 mg/kg	805 mg/kg	Not	Not
	Rat	Rabbit	established	established
naphtha, petroleum, heavy	Not	Not	Not	Not
alkylate	established	established	established	established
2-methoxy-1-methylethyl acetate	8 532 mg/kg	>5 g/kg	Not	1 105 mg/m ³
	Rat	Rabbit	established	4 h Rat
carbon black	>15 g/kg	>3 g/kg	Not	1.6 mg/m ³
	Rat	Rabbit	established	7 h Rat
1-methyl-2-pyrrolidone	3914 mg/kg Rat	>2 000 mg/kg Rabbit	Not established	400 mg/m ³ 6 h 4 w (intermit.) Rat

Note: Representative toxicity data from by RTECS database of the Canadian Centre for Occupational Health and Safety (CCOHS)¹ data from supplier MSDS were also consulted. a) Supplier MSDS

Skin corrosion/irritationTriethylenetetramine (CAS# 112-24-3) can cause skin burns.Serious eye
damage/irritationTriethylenetetramine (CAS# 112-24-3) can cause severe eye
damage.Sensitization
(allergic reactions)The epoxy hardener components (CAS# 68071-65-8 and
112-24-3) may cause skin sensitization in humans

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Carcinogenicity

(risk of cancer)

Carbon black [1333-86-4] is possibly carcinogenic by airborne routes of exposures. Because the carbon black is bound in a high viscosity epoxy liquid mixture, it is not expected to be 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

NTP: Not listed

Mutagenicity

(risk of heritable genetic

effects)

No data available

Reproductive Toxicity

(risk to sex functions)

Insufficient data for classification

Teratogenicity (risk of fetus malformation)

In Europe, intension for inclusion have been declared for 1-methyl-2-pyrrolidone in the Substance of Very High

Concern as a reproductive toxicant.

1-methyl-2-pyrrolidone (CAS# 872-50-4)

CA Prop 65: Listed as a reproductive toxicant

STOT-single exposure

STOT-repeated exposure

No data available No data available

ACGIH: Not listed

Aspiration hazard

Viscosity at 40 °C is >> 20.5 mm²/s, thus not classified as

aspiration hazard.



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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 MSDS along with supporting data for the classification of registered substances from the European Chemical Agency database (http://echa.europa.eu) were used.

The fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine (CAS# 68071-65-8) was classified as an acute category 2 environmental toxicant due to supplier report of moderate toxicity to aguatic organism (LC50 range of 1-10 mg/L).

Literature for the Triethylenetetramine (CAS # 112-24-3) suggest low aquatic toxicity (LC50, IC50, and EC50 values of >100 mg/L for fish and between 10 and 100 for algae).

Acute Ecotoxicity

Category 2

GHS Code: Hazard Statement

H401: Toxic to aquatic life

P273: Avoid release to the environment

P391: Collect spillage **Chronic Ecotoxicity**

Category 3

GHS Code: Hazard Statement

H412: Harmful to aquatic life with long lasting effects

P273: Avoid release to the environment

P391: Collect spillage

Biodegradability

The content is not readily biodegradable.

Section 13: Disposal Information

P501: 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). **ADR** (European Agreement Concerning the International Carriage of Dangerous Goods by Road, and **ADN** (Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways).

Sizes 5 liter and under

Limited Quantity

Note: The 832TC-450ML, 832TC-4L and 832TC-8L are composed of separate containers which meet this inner

packaging limit.



UN number: UN3082

Shipping Name: ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, N.O.S. (Reaction product: tall

oil/triethylenetetramine/tetraethyelenepentamine)

Class: 9

Packing Group: III Marine Pollutant: Yes



Air

Refer to ICAO-IATA Dangerous Goods Regulations.

All sizes

UN number: UN3082

Shipping Name: ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, N.O.S. (Reaction product: tall

oil/triethylenetetramine/tetraethyelenepentamine)

Class: 9

Packing Group: III
Marine Pollutant: Yes

Pkg Inst: 964. ERG Code: 9L



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Sea

Refer to IMDG regulations.

Sizes 5 liter and under

Limited Quantity

Note: The 832TC-450ML, 832TC-2L and 832TC-8L are composed of separate containers which meet this inner

packaging limit.



All sizes greater than 5 liter

UN number: UN3082

Shipping Name: ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, N.O.S. (Reaction product: tall

oil/triethylenetetramine/tetraethyelenepentamine)

Class: 9

Packing Group: III Marine Pollutant: Yes

EmS#: F-A, S-F

Stowage and Segregation: Category A



Note: Component supplier SDS transportation sections and labeling were consulted. All involved staff of shipper must be appropriately trained before involvement with the transport of this product, or work under direct supervision of a trained person.

Section 15: Regulatory Information

Canada

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 does not contain substance 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 contains carbon black (CAS# 1333-86-4; airborne, unbound particles of respirable size), which is listed as a carcinogen.

This product contains 1-methyl-2-pyrrolidone (CAS# 872-50-4) is listed as a developmental reproductive toxicant.

Europe

REACH

This product contains 1-methyl-2-pyrrolidone (CAS# 872-50-4), for which an intension of inclusion as a Substance of Very High Concern (SVHC) currently exists due to reproductive toxicity concerns.

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.



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Section 16: Other Information

MSDS Prepared by Michel Hachey

Date of Issue 18 July 2013

Supersedes 27 January 2011

Reason for Changes: Change to GHS format

Reference

- 1) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)
- 2) ACGIH 2011 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 (2011).

Abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

GHS: Globally Harmonized System of Classification of Labeling of Chemicals

LC50 Lethal Concentration 50%

LCLo Lowest published lethal concentration

LD50 Lethal Dose 50% N/A Not Applicable N/E Not Estimated

PEL Permissible Exposure Limit STEL Short-Term Exposure Limit

TCLo Lowest published toxic concentration

TWA Time Weighted Average VOC Volatile Organic Content

WEEL Workplace Environmental Exposure Levels

Technical Queries Contact us regarding any questions, improvement suggestions, or

problems with this product. Application notes, instructions, and $\ensuremath{\mathsf{FAQs}}$

are located at www.mgchemicals.com.

Email: support@mgchemicals.com

Mailing Addresses Manufacturing & Support Head Office

1210 Corporate Drive 9347–193rd Street

Burlington, Ontario, Canada Surrey, British Columbia, Canada

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Disclaimer

This material safety data sheet is provided as an information resource only. *M.G. Chemicals, Ltd.* believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to query and verify any information seeming suspect where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, regional, national, and international regulations.