

SAI Global File #004008

Burlington, Ontario, Canada

#### MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE

#### 8329TCM-PART A

# Safety Data Sheet

## Section 1: Identification

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

**Product Name:** Medium Cure Thermally Conductive Adhesive

SDS Code: 8329TCM-Part A

Related Part # 8329TCM-6ML, 8329TCM-50ML, 8329TCM-200ML

#### **Recommended Use and Restriction on Use**

**Use:** Thermally conductive adhesive for bonding and thermal management

**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** 

+1-800-340-0772 FAX +1-800-340-0773 E-MAIL support@mqchemicals.com 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@mqchemicals.com

**E-MAIL** (Competent Person): sds@mqchemicals.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 : +1-613-996-6666 or \*666 on cellular phones

SAI Global File #004008 Burlington, Ontario, Canada

#### MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE

8329TCM-PART A

## Section 2: Hazard(s) Identification

#### **Classification of Hazardous Chemical**

## **GHS Categories**

Criteria		Category	Signal Word	Pictograms
Sensitization	Skin	1	Warning	Exclamation
Eye Irritation		2	Warning	Exclamation
Skin Irritation		2	Warning	Exclamation
Hazardous to the Aquatic Environment	Chronic	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**

P272

P264

P273

Signal Word	WARNING
Pictograms	Hazard Statements
	H319: Causes serious eye irritation
	H315: Causes skin irritation
•	H317: May cause an allergic skin reaction
¥2>	H410: Very toxic to aquatic life with long lasting effects
Prevention	Precautionary Statements
P102	Keep out of reach of children.
P261	Avoid breathing fumes/vapors.
P280	Wear protective gloves/eye protection/face protection.

Section continued on the next page

Wash hands thoroughly after handling.

Avoid release to the environment.

Contaminated work clothing should not be allowed out of the workplace.



SAI Global File #004008

8329TCM-PART A

Burlington, Ontario, Canada

### MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE

Continued...

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/attention.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
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
Defats skin	Repeated exposure may cause skin dryness or cracking.	None	None
Metal fume fever	When exposed to extreme heat, this product may produce harmful zinc oxide and aluminum oxide fumes	None	None

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

CAS #	Chemical Name	%(weight)
1344-28-1	aluminium oxide	35-45%
1314-13-2	zinc oxide	10-30%
25068-38-6	bisphenol-A epoxy resin (reaction product)	17%
28064-14-4	epoxy phenol novalac resin	5%
17557-23-2	neopentyl glycol diglycidyl ether	3%
1333-86-4	carbon black	0.7%
68609-97-2	alkyl glycidyl ether	0.5%



SAI Global File #004008 Burlington, Ontario, Canada

#### MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE

8329TCM-PART A

Section 4: First-Aid Measures			
Exposure Condition	GHS Code/Symptoms/Precautionary Statements		
IF IN EYES	P305 + P351 + P338, P337 + 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/attention.		
IF ON SKIN	P302 + P352, P333 + P313, P362 + P364		
Immediate Symptoms	redness, irritation, dry skin, allergic contact dermatitis		
Response	Wash with plenty of water.		
	If skin irritation or rash occurs: Get medical advice/attention.		
	Take off contaminated clothing and wash it before reuse.		
IF INHALED	P304 + P340, P308 + P313		
Immediate Symptoms	cough, irritation of the respiratory track		
Response	Remove person to fresh air and keep comfortable for breathing.		
	IF exposed or concerned: Get medical advice/attention.		
IF SWALLOWED	P301 + P330, P331		
Immediate Symptoms	Irritation		
Response	Rinse mouth. Do NOT induce vomiting.		

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**Specific Hazards** 

Extinguishing Media	Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.

Produces irritating smoke of unknown toxicity in fires.

Inhalation of zinc oxide and aluminum oxide fumes may cause metal fever and irritate the respiratory tract. The flu-like symptoms of metal fever may be delayed, occurring 4 to 12

hours after exposure.

Prevent fire-fighting wash from entering waterway or sewer system.

Not flammable or combustible, but burns if involved in a fire.

Section continued on the next page



SAI Global File #004008 Burlington, Ontario, Canada

#### MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE

8329TCM-PART A

**Combustion Products** Produces carbon oxides (CO,CO<sub>2</sub>), nitrogen oxides, boron oxides,

and toxic metal fumes.

**Fire-Fighter** Wear self-contained breathing apparatus and full fire-fighting

turn-out gear.

#### **Section 6: Accidental Release Measures**

**Personal Protection** See personal protection recommendations in Section 8.

**Precautions for Response** 

Avoid breathing the fumes/mist/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 Contain with inert and non-flammable absorbent (such as soil,

sand, vermiculite).

**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.

Avoid breathing fumes/vapors or contact with skin or eyes.

Avoid release to the environment.

**Handling** Wear protective gloves/clothing/eye protection.

Contaminated work clothing should not be allowed out of the

workplace.

Wash hands thoroughly after handling.

Collect spillage.

**Storage** Store container tightly closed.



SAI Global File #004008

Burlington, Ontario, Canada

#### MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE

8329TCM-PART A

## **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)
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 mg/m <sup>3</sup>	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 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
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 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 zinc oxide, aluminum oxide, and carbon black are inextricably bound to the adhesive mixture; therefore they are not available as airborne hazards under normal use. Ensure adequate ventilation if the product is mechanically misted or aerosolized.

Section continued on the next page



SAI Global File #004008

Burlington, Ontario, Canada

#### MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE

8329TCM-PART A

## **Personal Protective Equipment**

Eve 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 of protective butyl rubber, latex,

neoprene, or other chemically resistant gloves.

For incidental contacts, use latex, neoprenee 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.

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.



SAI Global File #004008 Burlington, Ontario, Canada

#### **MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE**

8329TCM-PART A

## **Section 9: Physical and Chemical Properties**

Physical State	Solid	Lower Flammability Limit	Not available
Appearance	Dark grey	Upper Flammability Limit	Not available
Odor	Slight	Vapor Pressure @20°C	Not available
Odor Threshold	Not available	Vapor Density	Not available
pH	Not available	Specific Gravity @25 °C	2.48
Freezing/Melting	Not	Solubility in	Insoluble
Point	available	Water	
<b>Boiling Point</b>	Not	Partition	Not
	available	Coefficient	available
Flash Point a)	149°C	Auto-ignition	Not
	[300 °F]	Temperature	available
Evaporation	Not	Decomposition	Not
Rate	available	Temperature	available
Flammability (solid, gas)	Not	Viscosity	1 300 000 cP
	available	@25 °C	[1 300 Pa·s]

a) The closed cup flash point values are based on the epoxy phenol novolac resin component.

## Section 10: Stability and Reactivity

**Reactivity** Reacts exothermically with amines.

**Chemical Stability** Chemically stable at normal temperatures and pressures

**Conditions to** Avoid ignition sources, open flames, and incompatible substances. Do

**Avoid** not use in away that forms mist or aerosolizes the product.

**Incompatibilities** Avoid strong oxidizing agents, strong acids, strong bases, ammonia,

ethylene oxide, flax oils, and halogenated compounds.

**Polymerization** Will not occur

**Decomposition** Will not decompose under normal conditions. For thermal

decomposition, see combustion products in Section 5.

SAI Global File #004008 Burlington, Ontario, Canada

#### MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE

8329TCM-PART A

## **Section 11: Toxicological Information**

## **Routes of Exposure**

Skin contact, Inhalation, and Eye contact

## **Symptoms Summary**

**Eyes** May cause redness, severe irritation, or pain.

**Skin** May cause skin redness, irritation, dry skin, or allergic contact dermatitis.

**Inhalation** May cause cough and respiratory irritation.

Ingestion No acute oral toxicity effects known (see inhalation symptoms).Chronic Prolonged and repeated exposure may lead to skin sensitization.

## **Acute Toxicity (Lethal Exposure Concentrations)**

Chemical Name	LD50 oral	LD50 dermal	LC50 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
bisphenol-A epoxy resin (reaction product)	11 400 mg/kg	Not	Not
	Rat	established	established
epoxy phenol novolac resin	Not	Not	Not
	established	established	established
neopentyl glycol diglycidyl	2 000 mg/kg	2 150 mg/kg	Not
ether	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 (M)SDS were also consulted.

a) Supplier MSDS

Section continued on the next page



SAI Global File #004008

Burlington, Ontario, Canada

#### MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE

8329TCM-Part A

## **Other Toxicological Effects**

Skin corrosion/irritation Causes skin irritation.

**Serious eye** Causes serious eye irritation. Contains mechanically damage/irritation

abrasive particles.

Sensitization Skin sensitizer based on animal studies on the epoxy

(allergic reactions) components

Carcinogenicity The carbon black [1333-86-4] is possibly carcinogenic by

(risk of cancer) 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 and emergency

conditions.

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

Mutagenicity Based on available data, the classification criteria are not

(risk of heritable genetic effects)

**Reproductive Toxicity** Based on available data, the classification criteria are not

met. (risk to sex functions)

**Teratogenicity** (risk of fetus Based on available data, the classification criteria are not

met. malformation)

**STOT-single exposure** Based on available data, the classification criteria are not

**STOT-repeated exposure** Based on available data, the classification criteria are not

met.

**Aspiration hazard** There is no category 1 components, and the kinematic

viscosity is >20.5 mm<sup>2</sup>/s at 40 °C.



SAI Global File #004008 Burlington, Ontario, Canada

#### MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE

8329TCM-PART A

#### **Section 12: Ecological Information**

The IMDG Code criteria, the raw-material safety data sheets, and supporting data from the European Chemical Agency database (<a href="http://echa.europa.eu">http://echa.europa.eu</a>) were used to support the classification.

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.

In Europe, similar epoxy resin mixtures with CAS# 28064-14-4 and CAS# 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.

Based on available data, aluminum oxide, neopentyl glycol diglycidyl ether, carbon black and alkyl glycidyl ether are not classified as environmental hazard according to GHS criteria.

## **Acute Ecotoxicity**

Category 1

Very toxic to aquatic life

## **Chronic Ecotoxicity**

Category 1

Very toxic to aquatic life with long lasting effects

Avoid release to the environment. Collect spillage.

#### **Biodegradability**

Not readily biodegradable

#### **Bioaccumulation**

Not available

#### **Section 13: Disposal Information**

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



SAI Global File #004008

Burlington, Ontario, Canada

#### MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE

8329TCM-PART A

## **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

**NOT REGULATED** in TDG per Special Provisions 99

Sizes 5 kg and under

**NOT REGULATED** in 49 CFR per exception 171.4 (c)(2)

FOR REFERENCE ONLY

UN number: UN3077

**Shipping Name: ENVIRONMENTALLY** 

HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide; reaction products of bisphenol-A and epoxy resin number average molecular weight ≤700;

epoxy phenol novolac resin)

Class: 9

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.

#### Air

#### Refer to ICAO-IATA regulations.

Sizes 5 kg and under: Cat. No. 8329TCM-6ML, 8329TCM-50ML, 8329TCM-200ML

#### **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.

Section continued on the next page



SAI Global File #004008

Burlington, Ontario, Canada

8329TCM-PART A

#### MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE

Sea

#### Refer to IMDG regulations.

Sizes 5 kg and under: 8329TCM-6ML, 8329TCM-50ML, 8329TCM-200ML

**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.

Section continued on the next page



SAI Global File #004008

Burlington, Ontario, Canada

#### MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE

8329TCM-PART A

#### **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), 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.

**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.



SAI Global File #004008

Burlington, Ontario, Canada

#### MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE

8329TCM-PART A

### **Section 16: Other Information**

**SDS Prepared by** Michel Hachey **Date of Review** 09 May 2017 **Supersedes** 04 May 2017

Reason for Changes: Product name revision

#### 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®)

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

Section continued on the next page



SAI Global File #004008 Burlington, Ontario, Canada

#### MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE

8329TCM-PART A

**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.

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

Mailing Addresses Manufacturing & Support Head Office

1210 Corporate Drive 9347–193rd Street

Burlington, Ontario, Canada Surrey, British Columbia, Canada

L7L 5R6 V4N 4E7

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.