

Registered Quality System ISO 9001:2008 OMI File #004008 Burlington, Ontario, Canada

MEDIUM CURE THERMALLY CONDUCTIVE ADHESIVE

8329TCM-PART B

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: Medium Cure Thermally Conductive Adhesive

SDS Code: 8329TCM-Part B

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

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Section 2: Hazard(s) Identification

Classification of the Chemical Material

GHS Categories

Criteria		Category	Signal Word	Pictograms
Serious Eye Damage		1	Danger	Corrosion
Skin Corrosion		1B	Danger	Corrosion
Sensitization	Skin	1	Warning	Exclamation
Specific target organ toxicity	Repeated Exposure	2	Warning	Health
Reproductive Toxicity		2	Warning	Health
Hazardous to the Aquatic Environment	Chronic	1	Warning	Environment

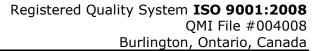
Note: The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

Label Elements

Signal Word	DANGER
Pictograms	Hazard Statements
	H314: Causes severe skin burns and eye damage
!	H317: May cause an allergic skin reaction
	H373: May cause damage to organs (liver, muscles) through prolonged or repeated exposure H361: Suspected of damaging fertility or the unborn child

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Pictograms	Hazard Statements
***	H410: Very toxic to aquatic life with long lasting effects
Prevention	Precautionary Statements
P102	Keep out of reach of children.
P260	Do not breathe fumes/vapors.
P201 + P202	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
Response	Precautionary Statements
P310	Immediately call a POISON CENTER/doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P391	Collect spillage.
Storage	Precautionary Statements
P405	Store locked up.
Disposal	Precautionary Statements
P501	Dispose of contents/container in accordance to local/regional/international regulations.

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Hazard	s Not Otl	herwise C	lassified
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Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Metal fume fever	When the product is exposed to very high heat such as welding or when mechanically aerosolized, this may cause harmful zinc oxide and aluminum oxide fumes.	None	None

Section 3: Composition/Information on Ingredients

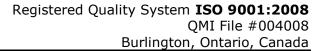
CAS #	Chemical Name	%(weight)
1344-28-1	aluminium oxide	35-45%
1314-13-2	zinc oxide	30-40%
25154-52-3	nonylphenol	10%
1761-71-3	4,4'-methylenebis(cyclohexylamine)	2%
112-24-3	triethylenetetramine	0.5%
1333-86-4	carbon black	0.4%
		l l

Cool	4100 4	. Fire	4 Alal B	I a a a u u a a
1919 191				Measures

Exposure Condition	GHS Code: Precautionary Statement
IF IN EYES	P305 + P351 + P338, P310
Immediate Symptoms	redness, severe irritation, pain, burns
Response	Rinse cautiously with water for 30 minutes or more. Remove contact lenses, if present and easy to do. Continue rinsing.
	Immediately call a POISON CENTER/doctor.
IF ON SKIN (or hair)	P303 + P361 + P353, P310, P333 + P313, P363
Immediate or Delayed Symptoms	redness, irritation, rash (allergic contact dermatitis), pain, chemical burns, blistering
Response	Take off immediately all contaminated clothing. Wash with plenty of water [shower].
	Immediately call a POISON CENTRE/doctor.
	If skin irritation or rash occurs: Get medical advice/attention.
	Wash contaminated clothing before reuse.

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IF INHALED	P304 + P340, P310
Immediate Symptoms	cough, irritation of the respiratory track, burning sensation
Delayed Symptoms	asthma, difficulty breathing
Response	Remove person to fresh air and keep comfortable for breathing.
	Immediately call a POISON CENTER/doctor.
IF SWALLOWED	P301 + P330 + P331, P310
IF SWALLOWED Immediate Symptoms	P301 + P330 + P331, P310 Irritation, abdominal pain, nausea, vomiting, burns to the digestive tract
	Irritation, abdominal pain, nausea, vomiting, burns to the

Advice to Physicians

In case of exposure to nitrogen oxides (NOx) combustion products or triethylenetetramine vapors during a fire, the symptoms may be delayed. For significant exposures, the exposed person should be kept under medical surveillance for 48 hours.

Section 5: Fire-Fighting Measures			
Extinguishing Media	Use dry chemical, carbon dioxide, or chemical foam to extinguish. Use water spray to cool containers.		
Specific Hazards	Not flammable or combustible, but burns if involved in a fire. Produces irritating and toxic fumes in fires or in contact with hot surfaces.		
	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.		
	Toxic for aquatic environment: Prevent fire-fighting wash from entering waterway or sewer system.		
Combustion Products	Produces carbon oxides (CO, CO_2), nitrogen oxides (NO $_{\times}$), boron oxides, and toxic metal fumes.		
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

Do not breathe the fumes/vapors.

Environmental Precautions

Avoid releasing to the environment. Prevent spill from entering

drains and waterways. Do not flush to sewer.

Containment Methods

Contain with inert absorbent (such as soil, sand, vermiculite).

Cleaning Methods

Collect liquid in a sealable container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe residue with a paper towel wetted with a suitable organic solvent such as alcohol or ethyl lactate, and place dirty towels in container. Wash spill area with soap and water to remove the

last traces of residue.

Disposal Methods Dispose spill waste according to Section 13.

Section 7: Handling and Storage

Prevention Keep out of reach of children.

Do not breathe fumes/vapors.

Obtain special instructions before use. Do not handle until all

safety precautions have been read and understood.

Contaminated work clothing should not be allowed out of the

workplace.

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

Avoid release to the environment.

Handling Wear protective gloves/protective clothing/eye protection/face

protection.

Take off contaminated clothing and wash it before reuse.

Wash hands thoroughly after handling.

Collect spillage.

Storage Store locked up.

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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 ³	Not established
and insoluble	U.S.A. OSHA PEL	15 mg/m ³	Not established
compounds ^{a)}	Canada AB	10 mg/m ³	Not established
	Canada BC	1 mg/m ³	Not established
	Canada ON	1 mg/m ³	Not established
	Canada QC	10 mg/m ³	Not established
zinc oxide	ACGIH	2 mg/m ³	Not established
(dust/mist)	U.S.A. OSHA PEL	2 mg/m ³	10 mg/m ³
	Canada AB	2 mg/m ³	10 mg/m ³
	Canada BC	2 mg/m ³	10 mg/m ³
	Canada ON	2 mg/m ³	10 mg/m ³
	Canada QC	2 mg/m ³	10 mg/m ³
triethylenetetramine	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	U.S.A (WEEL)	1 ppm	Not established
	Canada AB	Not established	Not established
	Canada BC	Not established	Not established
	Canada ON	0.5 mg/m³ (Skin) a)	Not established
	Canada QC	Not established	Not established
carbon black ^{a)}	ACGIH	3.5 mg/m ³	Not established
	U.S.A. OSHA PEL	3.5 mg/m ³	Not established
	Canada AB	3.5 mg/m ³	Not established
	Canada BC	3 mg/m ³	Not established
	Canada ON	3.5 mg/m ³	Not established
	Canada QC	3.5 mg/m ³	Not established

Note: The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS database² 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) As respirable airborne particles.

Engineering Controls

Ventilation

Keep airborne concentrations below exposure limits. Please note that the aluminum oxide, zinc oxide, and carbon black are inextricably bound to the adhesive mixture; therefore, they are not available as airborne hazard under normal or foreseeable condition of use.

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Personal Protective Equipment

Eye protection Wear appropriate protective eyeglasses or chemical safety

goggles.

RECOMMENDATION: Use safety glasses with lateral protection

(side shields).

Skin Protection For likely contacts, use of protective butyl rubber, neoprene, or

other chemically resistant gloves.

For incidental contacts, use nitrile 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 use.



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Section 9: Physical and Chemical Properties

Physical State	Solid	Lower Flammability Limit	Not available
Appearance	Dark grey	Upper Flammability Limit	Not available
Odor	Amine-like	Vapor Pressure @20 °C	Not available
Odor Threshold	Not available	Vapor Density	Not available
pH	Not available	Specific Gravity @25 °C	2.38
Freezing/Melting	Not	Solubility in	Insoluble
Point	available	Water	
Boiling Point	Not	Partition	Not
	available	Coefficient	available
Flash Point a)	222 °C	Auto-ignition	Not
	[432 °F]	Temperature	available
Evaporation	Not	Decomposition	Not
Rate	available	Temperature	available
Flammability	Not	Viscosity	6 000 000 cP
(solid, gas)	available	@25 °C	[6 000 Pa·s]

a) The closed cup flash point values for the component with the lowest reported boiling point.

Section 10: Stability and Reactivity

Reactivity Reacts exothermically with ketones, halogenated hydrocarbons,

cyanides, nitriles, and epoxides. May attack metals such as

aluminum, zinc, copper, and their alloys.

Chemical Stability Chemically stable at normal temperatures and pressures

Conditions to Avoid excessive heat and incompatible substances.

Avoid

Do not use in a way that forms a mist or aerosolizes the product.

Incompatibilities Strong oxidizing agents, strong acids

Polymerization Will not occur

Decomposition For thermal decomposition, see combustion products in Section 5.



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Section 11: Toxicological Information

Routes of Exposure

Eye Contact, Skin contact, Inhalation, and Ingestion

Symptoms Summary

Eyes May cause chemical burns. Also can cause eye irritation, redness or pain.

Skin May cause redness, serious skin irritation, allergic contact dermatitis, and

chemical burns. Triethylenetetramine can be absorbed through skin

leading to toxic effects.

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

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

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

lung (upper respiratory tract).

Ingestion May cause severe irritation or corrosive burns to the mouth, throat,

esophagus, and stomach. May cause allergic reactions. (See inhalation

symptoms.)

Chronic Prolonged and repeated exposure to uncured epoxy hardener may lead to

skin sensitization.

Lethal Exposure Concentrations

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
aluminum oxide	Not	Not	Not
	established	established	established
zinc oxide	7 950 mg/kg	Not	2 500 mg/m³
	Rat	established	Mouse
nonylphenol	589 mg/kg	2 140 mg/kg	Not
	Rat	Rabbit	established
4,4'-methylenebis	Not	Not	400 mg/m³
(cyclohexylamine)	established	established	mouse
triethylenetetramine	2 500 mg/kg	805 g/kg	Not
	Rat	Rabbit	established

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Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
carbon black	>15.4 g/kg	>3 g/kg	Not
	Rat	Rabbit	established

Note: Toxicity data from the RTECS² and ECHA databases were consulted. The data from supplier (M)SDS were also consulted.

Other Toxicological Effects

Skin corrosion/irritation Nonylphenol, 4,4'-Methylenebis(cyclohexylamine), and

triethylenetetramine causes severe skin burns.

Serious eye damage/irritation Triethylenetetramine causes severe eye damage.

Respiratory and skin

4,4'-Methylenebis(cyclohexylamine) and **sensitization** (allergic reactions) triethylenetetramine may cause skin sensitization

according to animal studies.

Carcinogenicity

The carbon black [1333-86-4] is possibly carcinogenic (risk of cancer) 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

Mutagenicity

Based on available data, the classification criteria are (risk of heritable genetic effects)

not met.

Reproductive Toxicity

Based on available data, the classification criteria are (risk to sex functions)

not.

Teratogenicity

Nonylphenol is suspected of being a human (risk of fetus malformation) reproductive toxicant. It is listed as a category 2

reproductive toxicant in the EU CLP harmonized list.

STOT-single exposure Based on available data, the classification criteria are

not met.

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STOT-repeated exposure 4,4'-Methylenebis(cyclohexylamine) is suspected of

causing muscle disorder and liver damage in workers

based on rat studies.

Aspiration hazard There are no category 1 components, and the kinematic

viscosity is $>20.5 \text{ mm}^2/\text{s}$ 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 (http://echa.europa.eu), and other reliable sources.

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 the aquatic environment.

Nonylphenol is classified as a category 1 chronic aquatic toxicant (minimal LC50 0.128 mg/L).

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

Based on available data, aluminum oxide, boron nitride, and carbon black 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

Other Effects

Not available

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Section 13: Disposal Considerations

Dispose of contents in accordance with all local, provincial, state, and federal 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 kg and under

Part B of 8329TCM-6ML, 8329TCM-50ML, and 8329TCM-500ML kits

Limited Quantity



Sizes greater than 1 kg

For Reference Only

UN number: UN3259

Shipping Name: AMINES, SOLID, CORROSIVE, n.o.s. ((nonylphenol; 4,4'-(Methylenebis(cyclohexylamine))

Class: 8

Packing Group: II Marine Pollutant: Yes



Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 30 g and under

Part B of 8329TCM-6ML kit

Excepted Quantity

Document as class E2

Refer to Package Mark 2.6.7.1 in **IATA** for further instruction



Sizes 0.5 kg and under a)

Part B of 8329TCM-50ML and 8329TCM-500ML kits

Limited Quantity

Max Net QTY/Pkg = 5 kg



a) Inner packaging net quantity per S.P. Y844. Total net quantity per package is 5.0 kg.

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Sea

Refer to IMDG regulations.

Sizes 30 g and under

Part B of 8329TCM-6ML kit

Excepted QuantityDocument as class E2



Sizes 1 kg and under a)

Part B of 8329TCM-50ML and 8329TCM-500ML kits

Limited Quantity

Max Net QTY/Pkg = 400 kg



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/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:	*	3
FLAMMABILITY:		1
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		

NFPA® 704 CODES

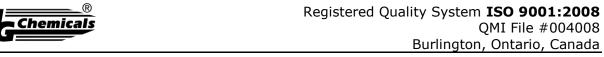


Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

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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, Sept 2, 2011 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.

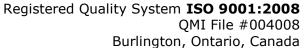
Section 16: Other Information

SDS Prepared by Michel Hachey **Date of Revision** 26 Jun 2017 **Supersedes** 09 May 2017

Reason for Changes: Clarification provided in transport section 14

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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

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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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.