Safety Data Sheet

according to WHS Regulations

Date of issue: 03.09.2026 Version number 5.01 Revision: 02.09.2026

* 1 Identification

· **Product identifier**

· **Trade name: 8320**

· **Other Means of Identification:** Epoxy hardener (Part B)

· **Related Part Number:**
8320-Part B, 832HT-B, 832B-B, 832C-B, 8320-125ML, 8320-150ML, 8320-1L, 8320-12L, 8320-20L, 832B-375ML (B), 832B-450ML (B), 832B-3L (B), 832B-12L (B), 832B-60L (B), 832C-375ML (B), 832C-450ML (B), 832C-3L (B), 832C-60L (B), 832HT-375ML (B), 832HT-3L (Kit), 832HTCLR-60L (B), 832HTCLR-540L (B)

· **Relevant identified uses of the substance or mixture and uses advised against**

· **Application of the substance / the mixture** Epoxy Hardener

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

MG Chemicals Ltd. (Head Office)
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA
+(1) 905-331-1396
info@mgchemicals.com

Mektronics Australia Pty Ltd
5 Prince William Drive
Seven Hills
NSW 2147
Australia
1300 788 701
www.mektronics.com.au
sales@mektronics.com.au

· **Further information obtainable from:** sds@mgchemicals.com

· **Emergency telephone number:**

Verisk 3E (Access Code: 335388)
+61 1 800 686 951
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* 2 Hazard(s) Identification

· **Classification of the substance or mixture**

Skin corrosion/irritation – Category 1B	H314 Causes severe skin burns and eye damage.
Eye damage/irritation – Category 1	H318 Causes serious eye damage.
Skin sensitisation – Category 1	H317 May cause an allergic skin reaction.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

· **Additional information:**
The full text of the classification and labelling elements mentioned is given in Section 16.

· **Label elements**

· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**

GHS05 GHS07 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**
fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines (88 %)
triethylenetetramine (12 %)

(Contd. on page 2)

(Contd. of page 1)

· **Hazard statements**
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
· **Precautionary statements**

P102	Keep out of reach of children.
P260	Do not breathe vapors or fumes.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves, protective clothing, and eye protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable

* 3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**		
68410-23-1	fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines Eye damage/irritation – Category 1, H318; Aquatic Chronic 2, H411; Skin corrosion/ irritation – Category 2, H315; Skin sensitisation – Category 1, H317	88%
112-24-3	triethylenetetramine Skin corrosion/irritation – Category 1B, H314; Acute toxicity - dermal – Category 4, H312; Skin sensitisation – Category 1, H317; Aquatic Chronic 3, H412	12%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

* 4 First Aid Measures

· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:**
Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER or doctor.
· **After skin contact:**
Take off immediately all contaminated clothing. Wash with plenty of water or shower.
Immediately call a POISON CENTRE or doctor.
Wash contaminated clothing before reuse.
If skin irritation or rash occurs: Get medical advice or attention.
· **After eye contact:**
Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor.
· **After swallowing:**
Rinse mouth. Do not induce vomiting.
Immediately call a POISON CENTER or doctor.
· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**
In case of exposure to nitrogen oxides (NOx) combustion products or triethylenetetramine vapors during a fire, the symptoms may be delayed.

(Contd. on page 3)

(Contd. of page 2)

For significant exposures, the exposed person should be kept under medical surveillance for 48 hours.

· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

* 5 Fire Fighting Measures

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

· **Special hazards arising from the substance or mixture**
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.
Inhalation of toxic smoke during fire may have delayed effects. Exposed person may need to be put under surveillance for 48 h.

· **Hazardous combustion products:**
Carbon Oxides (COx)
Nitrogen Oxides (NOx)

· **Protective equipment:** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

* 6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Do not breathe fumes, mist or vapors.
Remove or keep away all sources of extreme heat or open flames.

· **Environmental precautions:**
Avoid release to the environment.
Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Collect liquid in a sealable, chemical-resistant container.
Wash residue with a paper towel and place dirty towels in container.
Use soap and water to remove the last traces of residue.

· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

* 7 Handling and Storage

· **Handling:**

· **Precautions for safe handling**
Prevent formation of aerosols.
Wear protective gloves and eye protection.
Wash hands and exposed skin thoroughly after handling.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Contaminated work clothing should not be allowed out of the workplace.
Do not eat, drink, or smoke when using this product.
Avoid contact with skin and eyes.

· **Information about fire - and explosion protection:** No special measures required.

(Contd. on page 4)

(Contd. of page 3)

· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Keep in a dry and clean area, away from incompatible substances
· **Information about storage in one common storage facility:** Not required
· **Further information about storage conditions:**
Keep container tightly sealed.
Store locked up.

· **Specific end use(s)** See section 1.2

* 8 Exposure controls and personal protection

· **Appropriate engineering controls**
Due to low vapor pressure of the product, general ventilation should be adequate for normal use. If the product is heated at high temperatures or worker is allergic, use local ventilation and consider using a full mask with organic vapor cartridges.
Keep airborne concentrations below exposure limits.
· **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
· **Additional information:**
The lists valid during the making were used as basis.
Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· **Respiratory protection:**
For over-exposures up to 10 x OEL of mist, vapors, and 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.
Advice should be sought from respiratory protection specialists.
· **Protection of hands:**
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Protective gloves: EN374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

(Contd. of page 4)

· **Eye protection:**

Safety glasses or tightly sealed goggles: EN 166

* 9 Physical and Chemical Properties

· **Physical state**	Liquid
· **Appearance:**	
· **Form:**	Highly viscous
· **Colour:**	Amber coloured
· **Odour:**	musty & ammonia-like
· **Odour threshold:**	Not determined
· **pH-value:**	Not determined
· **Melting point/freezing point:**	Undetermined
· **Initial boiling point and boiling range:**	Undetermined
· **Flash point:**	122 °C
· **Flammability**	Non flammable
· **Auto-ignition temperature:**	Not determined
· **Decomposition temperature:**	Not determined
· **Ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product does not present an explosion hazard.
· **Explosion limits:**	
· **Lower:**	Not applicable
· **Upper:**	Not applicable
· **Vapour pressure at 20 °C:**	>0 hPa
· **Relative density at 25 °C:**	0.96
· **Vapor density (air=1):**	>5
· **Evaporation rate**	Not determined
· **Solubility in / Miscibility with**	
· **water:**	Not miscible or difficult to mix.
· **Partition coefficient: n-octanol/water:**	Not determined
· **Viscosity:**	
· **Dynamic:**	Not determined
· **Kinematic at 20 °C:**	6,000 mm²/s
· **Solvent content:**	
· **Organic solvents:**	Not available
· **VOC (EC)**	0.00 %
· **Solids content:**	0.0 %
· **Other information**	No further relevant information available.
· **Particle characteristics**	Not applicable.

* 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.

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

(Contd. on page 6)

(Contd. of page 5)

· **Possibility of hazardous reactions** No dangerous reactions known.

· **Conditions to avoid** Avoid open flames, excessive heat, sparks, ignition sources, and incompatible substances.

· **Incompatible materials:**
Strong oxidizing agents
Strong acids

· **Hazardous decomposition products:**
No dangerous decomposition products known.
Hazardous combustion products: see section 5.

* 11 Toxicological Information

· **Information on toxicological effects**

· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**		
ATE (Acute Toxicity Estimates)		
Dermal	LD50	6,708 mg/kg (rabbit)

112-24-3 triethylenetetramine		
Oral	LD50	2,500 mg/kg (rat)
Dermal	LD50	805 mg/kg (rabbit)

· **Primary irritant effect:**

· **Skin corrosion/irritation** Causes severe skin burns and eye damage.

· **Serious eye damage/irritation** Causes serious eye damage.

· **Respiratory or skin sensitisation** May cause an allergic skin reaction.

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

· **Reproductive toxicity** 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** Based on available data, the classification criteria are not met.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **Summary of Effects and Symptoms by Routes of Exposure**

· **Eyes:**
eye damage, pain
redness, serious irritation

· **Skin:**
rash, allergic contact dermatitis
redness, irritation
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:** irritation of the respiratory tract

· **Swallowed:**
May cause pain and corrosive burns to the mouth, throat, esophagus, and stomach.
irritation to the mouth, throat, esophagus, and stomach
allergic reactions
see inhalation symptoms

· **Interactive effects**

· **Delayed and immediate effects as well as chronic effects from short and long-term exposure**
Prolonged or repeated exposure may cause skin allergies.

(Contd. of page 6)

* 12 Ecological Information

· **Toxicity**
· **Aquatic toxicity:**
Toxic to aquatic life with long lasting effects.
Avoid release to the environment.
Collect spillage.

112-24-3 triethylenetetramine	
EC50/ 48 h	24 mg/L (daphnia)
LC50 96h	420 mg/L (guppie)
IC50 72h	2 mg/L (algae)

· **Persistence and degradability** No further relevant information available.
· **Behaviour in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Ecotoxical effects:**
· **Remark:** Toxic for fish
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **Other adverse effects** No further relevant information available.

* 13 Disposal considerations

· **Waste treatment methods**
· **Recommendation** This material and its container must be disposed of as hazardous waste.
· **Uncleaned packaging:**
· **Recommendation:**
Containers may still present a chemical hazard/ danger when empty.
Dispose of contents in accordance with all local, regional, national, and international regulations.
Where possible retain label warnings and SDS and observe all notices pertaining to the product.

* 14 Transport information

· **UN-Number**
· **ADG, IMDG, IATA** UN2259

· **UN proper shipping name**
· **ADG, IMDG** TRIETHYLENETETRAMINE
· **IATA** Triethylenetetramine

· **Transport hazard class(es)**
· **ADG, IMDG, IATA**

· **Class** 8 Corrosive substances.
· **Label** 8

(Contd. on page 8)

(Contd. of page 7)

· **Packing group**	
· **ADG, IMDG, IATA**	II
· **Environmental hazards:**	Product contains environmentally hazardous substances: fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines
· **Marine pollutant:**	MARINE POLLUTANT
· **Special marking (IATA):**	ENVIRONMENTALLY HAZARDOUS
· **Special precautions for user**	Not applicable
· **Hazard identification number (Kemler code):**	80
· **EMS Number:**	F-A,S-B
· **Segregation groups**	(SGG18) Alkalis
· **Stowage Category**	B
· **Stowage Code**	SW2 Clear of living quarters.
· **Segregation Code**	SG35 Stow "separated from" SGG1-acids
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable

· **Transport/Additional information:**

Limited Quantity

832B-375ML, 832B-450ML, 832B-3L, 832C-375ML, 832C-450ML, 832C-3L, 832HT-375ML, 832HT-3L

· **ADG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **Transport category**	2
· **Tunnel restriction code**	E
· **IMDG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 2259 TRIETHYLENETETRAMINE, 8, II

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

None of the ingredients is listed.

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category** E2 Hazardous to the Aquatic Environment

(Contd. on page 9)

(Contd. of page 8)

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

* 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

· **Department issuing SDS:** Regulatory department
· **Contact:** sds@mgchemicals.com
· **Date of previous version:** 17.07.2026
· **Version number of previous version:** 5.00
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute toxicity - dermal – Category 4: Acute toxicity – Category 4
Skin corrosion/irritation – Category 1B: Skin corrosion/irritation – Category 1B
Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2
Eye damage/irritation – Category 1: Serious eye damage/eye irritation – Category 1
Skin sensitisation – Category 1: Skin sensitisation – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· *** Data compared to the previous version altered.**