



Kit Revision Date: 7/9/2025

## 832TC THERMALLY CONDUCTIVE EPOXY KIT

### MG Chemicals Multipart Product Kit

This product is a kit made up of multiple parts. Each part is an independently packaged chemical component and has independent hazard assessments.

#### **Kit Content**

<i>Part</i>	<i>Product Name</i>	<i>Product Use</i>
A	832TC-A	Epoxy Resin
B	832TC-B	Epoxy hardener

*Safety Data Sheets for each part listed above follow this cover sheet.*

#### **Transportation Instruction**

Before offering this product kit for transport, read Section 14 for all parts listed above.



## Safety Data Sheet

according to WHMIS 2023 and HCS 2024

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Version number 6.01

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### 1 Identification

#### · Product identifier

##### · Trade name: 832TC-A

· Other Means of Identification: Thermally Conductive Epoxy (Part A)

· Related Part Number: 832TC-Part A, 832TC-450ML, 832TC-450MLCA, 832TC-2L, 832TC-8L, 832TC-40L

##### · Application of the substance / the mixture Epoxy resin

· Uses advised against Not applicable

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

##### Manufacturer/Supplier:

MG Chemicals (Head Office)

1210 Corporate Drive

Burlington, Ontario L7L 5R6

CANADA

+(1) 800-340-0772

+(1) 905-331-1396

info@mgchemicals.com

##### Distributor:

Masline

511 Clinton Ave S

Rochester, New York 14620

United States

+(1) 586-546-5373

#### · Information department: sds@mgchemicals.com

#### · Emergency telephone 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

### 2 Hazard identification

#### · Classification of the substance or mixture

Skin Irritation - Category 2 H315 Causes skin irritation.

Eye damage/irritation – Category 2A H319 Causes serious eye irritation.

Sensitization - skin – Category 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

#### · Label elements

##### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

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· Hazard pictograms



GHS07 GHS09

· Signal word Warning

· Hazard-determining components of labeling:

phenol, polymer with formaldehyde, glycidyl ether  
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)  
oxirane, mono[(C12-14-alkyloxy)methyl] derivs

· Hazard statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
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.  
P261 Avoid breathing fumes and vapors.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves / eye protection.  
P302+P352 IF ON SKIN: Wash with plenty of 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.  
P333+P313 If skin irritation or rash occurs: Get medical advice.  
P337+P313 If eye irritation persists: Get medical advice.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.  
P501 Dispose of contents and container in accordance with local, regional, and national regulations.

· Other hazards Not available

## 3 Composition/Information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

28064-14-4	phenol, polymer with formaldehyde, glycidyl ether Alternative CAS number: 9003-36-5	48% w/w
1344-28-1	aluminium oxide	47% w/w
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700) Alternative CAS number: 1675-54-3	2% w/w

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64741-65-7	Naphtha (petroleum), heavy alkylate	1% w/w
1333-86-4	Carbon black	0.7% w/w
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	0.2% w/w

## 4 First-aid measures

### · Description of first aid measures

#### · After inhalation:

Remove person to fresh air and keep comfortable for breathing.  
If feeling unwell: Call a POISON CENTRE or doctor.

#### · After skin contact:

Wash with plenty water.  
If skin irritation or rash occurs: Get medical advice or attention.  
Take off contaminated clothing and wash it before reuse.

#### · After eye contact:

Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice or attention.

#### · After swallowing:

Rinse mouth.  
Do NOT induce vomiting.  
If symptoms persist consult doctor.

### · Most important symptoms and effects, both acute and delayed

No further relevant information available.

### · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Fire-fighting measures

### · Extinguishing media

· Suitable extinguishing agents: Use fire fighting measures that suit the environment.

### · 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 metal 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.

#### · Hazardous combustion products:

Carbon Oxides (COx)  
toxic metal fumes  
other toxic fumes

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· **Advice for firefighters**

· **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**

Avoid breathing the fumes 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

· **Precautions for safe handling**

Avoid breathing fumes or vapours.

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.

· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Keep in a dry and clean area, away from incompatible substances

DO NOT FREEZE. Store in a clean and dry area between 5 to 35 °C.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

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

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## 8 Exposure controls/ Personal protection

### · Control parameters

#### · Components with limit values that require monitoring at the workplace:

1333-86-4 Carbon black	
EL (Canada)	TWA: 3 mg/m <sup>3</sup> IARC 2B
EV (Canada)	TWA: 3.5 mg/m <sup>3</sup>
PEL (USA)	TWA: 3.5 mg/m <sup>3</sup>
REL (USA)	TWA: 3.5* mg/m <sup>3</sup> *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV (USA)	TWA: 3* mg/m <sup>3</sup> *inhalable fraction, A3

### · Additional information:

The lists that were valid during the creation were used as basis.

Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.

### · Exposure controls

#### · Appropriate engineering controls

No further data; see section 7.

#### · 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.

##### · Breathing equipment:

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.

##### · 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.

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· Eye protection:



Safety glasses or tightly sealed goggles: EN 166

### \* 9 Physical and chemical properties

· Information on basic physical and chemical properties

· Physical state:	Liquid
· Form:	Highly viscous
· Color:	Black
· Odor:	Mild
· Odor threshold:	Not determined.
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	>150 °C (>302 °F)
· Flammability:	Non flammable
· Explosion limits:	
· Lower:	Not applicable
· Upper:	Not applicable
· Flash point:	150 °C (302 °F)
· Auto igniting:	Not determined
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Solubility in / Miscibility with	
· Water:	Insoluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure:	Not determined.
· Relative density at 25 °C (77 °F):	1.73
· Vapor density (air=1):	Not determined.
· Particle characteristics	Not applicable.

· Other information

· Important information on protection of health and environment, and on safety.

· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Solvent content:	
· Organic solvents:	Not available
· VOC content:	0.000 %
· Solids content:	0.0 g/l / 0.00 lb/gal
	48.8 %

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· Evaporation rate	Not determined.
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## 10 Stability and reactivity

- **Reactivity** Reacts exothermically with amines.
- **Chemical stability** Chemically stable at normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid**  
Avoid open flames, excessive heat, sparks, ignition sources, and incompatible substances.  
Do not use in away that forms mist or aerosolizes the product.
- **Incompatible materials:**  
Strong acids  
Strong bases  
Ammonia  
Strong oxidizing agents  
alkali
- **Hazardous decomposition products:**  
No dangerous decomposition products known.  
Hazardous combustion products: see section 5.

## 11 Toxicological information

### · Information on toxicological effects

#### · Acute toxicity:

· LD/LC50 values that are relevant for classification:		
28064-14-4 phenol, polymer with formaldehyde, glycidyl ether		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
1344-28-1 aluminium oxide		
Oral	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>2 mg/L (mouse)
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)		
Oral	LD50	11,400 mg/kg (rat)
64741-65-7 Naphtha (petroleum), heavy alkylate		
Oral	LD50	>6,000 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rabbit)

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Inhalative	LC50/4 h	>7.8 mg/L (rat)
<b>1333-86-4 Carbon black</b>		
Oral	LD50	>15,400 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rabbit)
<b>68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs</b>		
Oral	LD50	19,200 mg/kg (rat)
Dermal	LD50	4,500 mg/kg (rat)

· **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.

· **Sensitization:** Sensitization possible through skin contact.

· **Summary of effects and symptoms by route of exposure**

· **Eyes:**

redness, serious irritation  
pain

· **Skin:**

rash, allergic contact dermatitis  
redness, irritation

· **Inhalation:** irritation of the respiratory tract

· **Swallowed:**

Low toxicity:  
irritation  
see inhalation symptoms

· **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Prolonged and repeated exposure to uncured epoxy hardener may lead to skin sensitization.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

· **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>	
1333-86-4	Carbon black
· <b>NTP (National Toxicology Program)</b>	
None of the ingredients is listed.	

## 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

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

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<b>28064-14-4 phenol, polymer with formaldehyde, glycidyl ether</b>	
LC50 96h	>1–≤10 mg/L (not defined) In Europe, similar epoxy resin mixtures with CAS 28064-14-4 are generally classified as chronic category 2 marine pollutant due to LC50 96 h of >1 mg/L but ≤10 mg/L.
<b>1333-86-4 Carbon black</b>	
EC50/ 24 h	>5,600 mg/L (aquatic invertebrates)
EC50/ 72 h	>10,000 mg/L (aquatic algae and cyanobacteria)
EC0/ 3 h	>800 mg/L (microorganisms)
LC50	>1,000 mg/L (fish)

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

## 13 Disposal considerations

- Waste treatment methods**
  - Recommendation:** This material and its container must be disposed of as hazardous waste.
- Uncleaned packagings:**
  - 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

<b>UN-Number</b>	UN3082
<b>DOT/TDG, IMDG, IATA</b>	
<b>UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
<b>DOT/TDG</b>	
<b>IMDG</b>	NOT REGULATED by Sea IMDG per 2.10.2.7 for sizes 5L or less. ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

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· IATA	LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)) NOT REGULATED by Air IATA Special Provision A197 for sizes 5L or less. Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
· Transport hazard class(es)	
· DOT/TDG, IMDG	
· Class	9 Miscellaneous dangerous substances and articles
· Label	9
· IATA	
· Class	9 Miscellaneous dangerous substances and articles
· Label	9
· Packing group	
· DOT/TDG, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	MARINE POLLUTANT
· Special marking (IATA):	ENVIRONMENTALLY HAZARDOUS Symbol (fish and tree)
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT/TDG	
· Quantity limitations	On passenger aircraft/rail: 450 L On cargo aircraft only: 450 L
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Special precautions for user	Not applicable.

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· Hazard identification number (Kemler code):	90
· EMS Number:	F-A,S-F
· Stowage Category	A
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700)), 9, III

## \*15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- OSHA Hazard Communication Standard (29 CFR Part 1900)  
The safety data sheet and label comply with HCS 2024.
- Hazardous Products Act (R.S.C., 1985, c. H-3)  
The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2023.
- Sara

· Section 355 (extremely hazardous substances):
None of the ingredients is listed.
· Section 313 (Specific toxic chemical listings):
1344-28-1 aluminium oxide
· TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.
· Hazardous Air Pollutants
None of the ingredients is listed.

### · Proposition 65

· Chemicals known to cause cancer:
1333-86-4 Carbon black
· Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
· Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

### · Note:

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

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· **Carcinogenic categories**

· TLV (Threshold Limit Value)	
1344-28-1	aluminium oxide
1333-86-4	Carbon black

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

1333-86-4	Carbon black
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· **Canadian substance listings:**

· Canadian Domestic Substances List (DSL)	
All ingredients are listed.	
· Canadian Non-Domestic Substances List (NDSL)	
None of the ingredients is listed.	
· Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients is listed.	
· Canadian Ingredient Disclosure list (limit 1%)	
1344-28-1	aluminium oxide

· **HMIS-ratings (scale 0 - 4)**

Health = \* 2  
Fire = 1  
Reactivity = 0

· **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.

· **Per- and polyfluoroalkyl substances (PFAS)**

None of the ingredients is listed.

## 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.

· **Department issuing SDS:** Regulatory department

· **Contact:** sds@mgchemicals.com

· **Version number of previous version:** 6.00

· **Date of preparation** 07/09/2025

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation

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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

NIOSH: National Institute for Occupational Safety

• \* Data compared to the previous version altered.

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### 1 Identification

#### · Product identifier

##### · Trade name: 832TC-B

· Other Means of Identification: Thermally Conductive Epoxy (Part B)

##### · Related Part Number:

832TC-Part B, 832TC-450ML (B), 832TC-450MLCA (B), 832TC-2L (B), 832TC-8L (B), 832TC-40L (B)

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

· Uses advised against Not applicable

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

##### Manufacturer/Supplier:

MG Chemicals (Head Office)

1210 Corporate Drive

Burlington, Ontario L7L 5R6

CANADA

+(1) 800-340-0772

+(1) 905-331-1396

info@mgchemicals.com

##### Distributor:

Masline

511 Clinton Ave S

Rochester, New York 14620

United States

+(1) 586-546-5373

#### · Information department: sds@mgchemicals.com

#### · Emergency telephone 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

### 2 Hazard identification

#### · Classification of the substance or mixture

Skin Irritation - Category 2 H315 Causes skin irritation.

Eye damage/irritation – Category 2A H319 Causes serious eye irritation.

Sensitization - skin – Category 1 H317 May cause an allergic skin reaction.

#### · Label elements

##### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

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· Hazard pictograms



GHS07

· Signal word Warning

· Hazard-determining components of labeling:

benzyl alcohol  
triethylenetetramine

· Hazard statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.

· Precautionary statements

P102 Keep out of reach of children.  
P261 Avoid breathing fumes and vapors.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves / eye protection.  
P302+P352 IF ON SKIN: Wash with plenty of 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.  
P333+P313 If skin irritation or rash occurs: Get medical advice.  
P337+P313 If eye irritation persists: Get medical advice.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents and container in accordance with local, regional, and national regulations.

· Other hazards Not available

## 3 Composition/Information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

1344-28-1	aluminium oxide	52.0% w/w
68071-65-8	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine	30.0% w/w
100-51-6	benzyl alcohol	11.0% w/w
112-24-3	triethylenetetramine	2.0% w/w
108-65-6	2-methoxy-1-methylethyl acetate	1.0% w/w
1333-86-4	Carbon black	1.0% w/w

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64741-65-7	Naphtha (petroleum), heavy alkylate	1.0% w/w

## 4 First-aid measures

### · Description of first aid measures

· **General information:** Medical supervision for at least 48 hours.

#### · **After inhalation:**

Remove person to fresh air and keep comfortable for breathing.

If feeling unwell: Call a POISON CENTRE or doctor.

#### · **After skin contact:**

Wash with plenty water.

If skin irritation or rash occurs: Get medical advice or attention.

Take off contaminated clothing and wash it before reuse.

#### · **After eye contact:**

Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice or attention.

#### · **After swallowing:**

Rinse mouth.

Do NOT induce vomiting.

If symptoms persist consult 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.

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

### · **Extinguishing media**

· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

### · **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 metal 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.

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)

toxic metal fumes

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- **Advice for firefighters**

- **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**

Avoid breathing the fumes or vapors.

Remove or keep away all sources of extreme heat or open flames.

- **Environmental precautions:** 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

- **Precautions for safe handling**

Do not breathe fumes or vapours.

Wear protective gloves and eye protection.

Wash hands and exposed skin thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

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

- **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Keep in a dry and clean area, away from incompatible substances

DO NOT FREEZE. Store in a clean and dry area between 5 to 35 °C.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:** Keep receptacle tightly sealed.

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

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## 8 Exposure controls/ Personal protection

### · Control parameters

#### · Components with limit values that require monitoring at the workplace:

<b>100-51-6 benzyl alcohol</b>	
WEEL (USA)	TWA: 10 ppm
<b>112-24-3 triethylenetetramine</b>	
EV (Canada)	TWA: 3 mg/m <sup>3</sup> , 0.5 ppm Skin
WEEL (USA)	TWA: 6 mg/m <sup>3</sup> , 1 ppm Skin
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
EL (Canada)	STEL: 75 ppm TWA: 50 ppm
EV (Canada)	TWA: 270 mg/m <sup>3</sup> , 50 ppm
WEEL (USA)	TWA: 50 ppm
<b>1333-86-4 Carbon black</b>	
EL (Canada)	TWA: 3 mg/m <sup>3</sup> IARC 2B
EV (Canada)	TWA: 3.5 mg/m <sup>3</sup>
PEL (USA)	TWA: 3.5 mg/m <sup>3</sup>
REL (USA)	TWA: 3.5* mg/m <sup>3</sup> *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV (USA)	TWA: 3* mg/m <sup>3</sup> *inhalable fraction, A3

### · Additional information:

The lists that were valid during the creation were used as basis.

Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.

### · Exposure controls

#### · Appropriate engineering controls

No further data; see section 7.

#### · 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.

##### · Breathing equipment:

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.

##### · Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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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.

· **Eye protection:**



Safety glasses or tightly sealed goggles: EN 166

## \* 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· <b>Physical state</b>	Liquid
· <b>Form:</b>	Highly viscous
· <b>Color:</b>	Black
· <b>Odor:</b>	Mild
· <b>Odor threshold:</b>	Not determined.
· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Undetermined.
· <b>Flammability:</b>	Non flammable
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not applicable
· <b>Upper:</b>	Not applicable
· <b>Flash point:</b>	96 °C (204.8 °F)
· <b>Auto igniting:</b>	Not determined
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Vapor pressure at 20 °C (68 °F):</b>	<1 hPa (<0.8 mm Hg)

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· Relative density at 25 °C (77 °F):	1.61
· Vapor density (air=1):	>1
· Particle characteristics	Not applicable.
· Other information	
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Solvent content:	
· Organic solvents:	12.00 %
· VOC content:	12,000 %
	120.0 g/l / 1.00 lb/gal
· Evaporation rate	Not determined.

## 10 Stability and reactivity

### · Reactivity

May attack metals such as aluminum, zinc, copper, and their alloys.

May form explosive peroxides.

Reacts exothermically with epoxide groups.

### · Chemical stability

Chemically stable at normal temperatures and pressures.

#### · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

### · Possibility of hazardous reactions

No dangerous reactions known.

### · Conditions to avoid

Avoid open flames, excessive heat, sparks, ignition sources, and incompatible substances.

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

### · Incompatible materials:

Strong oxidizing agents

Strong bases

Strong acids

Halogenated compounds

### · Hazardous decomposition products:

No dangerous decomposition products known.

Hazardous combustion products: see section 5.

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## 11 Toxicological information

### · Information on toxicological effects

#### · Acute toxicity:

##### · LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)		
Oral	LD50	10,909 mg/kg
Dermal	LD50	12,524 mg/kg (rabbit)
1344-28-1 aluminium oxide		
Oral	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>2 mg/L (mouse)
100-51-6 benzyl alcohol		
Oral	LD50	1,200 mg/kg (ATE)
Dermal	LD50	2,000 mg/kg (rabbit)
112-24-3 triethylenetetramine		
Oral	LD50	2,500 mg/kg (rat)
Dermal	LD50	805 mg/kg (rabbit)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8,532 mg/kg (rat)
Dermal	LD/50	5 g/kg (rabbit)
Inhalative	LC50/4 h	35.7 mg/L (rat)
1333-86-4 Carbon black		
Oral	LD50	>15,400 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rabbit)
64741-65-7 Naphtha (petroleum), heavy alkylate		
Oral	LD50	>6,000 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>7.8 mg/L (rat)

#### · Primary irritant effect:

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitization:** Sensitization possible through skin contact.

#### · Summary of effects and symptoms by route of exposure

##### · Eyes:

redness, serious irritation

pain

##### · Skin:

rash, allergic contact dermatitis

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).

redness, irritation

##### · Inhalation:

irritation of the respiratory tract

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- **Swallowed:**  
Low toxicity:  
irritation
- **Delayed and immediate effects as well as chronic effects from short and long-term exposure**  
Prolonged or repeated exposure may cause skin allergies.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
1333-86-4	Carbon black	2B
· NTP (National Toxicology Program)		
None of the ingredients is listed.		

## 12 Ecological information

### · Toxicity

· Aquatic toxicity:		
<b>112-24-3 triethylenetetramine</b>		
EC50/ 48 h	24 mg/L (daphnia)	
LC50 96h	420 mg/L (guppie)	
IC50 72h	2 mg/L (algae)	
<b>1333-86-4 Carbon black</b>		
EC50/ 24 h	>5,600 mg/L (aquatic invertebrates)	
EC50/ 72 h	>10,000 mg/L (aquatic algae and cyanobacteria)	
EC0/ 3 h	>800 mg/L (microorganisms)	
LC50	>1,000 mg/L (fish)	

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

### · Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

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## 13 Disposal considerations

### · Waste treatment methods

· **Recommendation:** This material and its container must be disposed of as hazardous waste.

### · Uncleaned packagings:

#### · **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	
· DOT/TDG, IMDG, IATA	not regulated
· UN proper shipping name	
· DOT/TDG, IMDG, IATA	not regulated
· Transport hazard class(es)	
· DOT/TDG, ADN, IMDG, IATA	
· Class	not regulated
· Packing group	
· DOT/TDG, IMDG, IATA	Not applicable
· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Special precautions for user	Not applicable.
· UN "Model Regulation":	not regulated

## \*15 Regulatory information

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

#### · OSHA Hazard Communication Standard (29 CFR Part 1900)

The safety data sheet and label comply with HCS 2024.

#### · Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2023.

#### · Sara

##### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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· Section 313 (Specific toxic chemical listings):

1344-28-1 aluminium oxide

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

1333-86-4 Carbon black

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Note:

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

· Carcinogenic categories

· TLV (Threshold Limit Value)

1344-28-1 aluminium oxide

A4

1333-86-4 Carbon black

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

1333-86-4 Carbon black

· Canadian substance listings:

· Canadian Domestic Substances List (DSL)

All ingredients are listed.

· Canadian Non-Domestic Substances List (NDSL)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 0.1%)

112-24-3 triethylenetetramine

· Canadian Ingredient Disclosure list (limit 1%)

1344-28-1 aluminium oxide

100-51-6 benzyl alcohol

1333-86-4 Carbon black

· HMIS-ratings (scale 0 - 4)

Health = \* 2

Fire = 1

Reactivity = 0

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### · 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.

#### · Per- and polyfluoroalkyl substances (PFAS)

None of the ingredients is listed.

## 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.

#### · Department issuing SDS: Regulatory department

#### · Contact: sds@mgchemicals.com

#### · Version number of previous version: 5.00

#### · Date of preparation 07/09/2025

#### · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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

NIOSH: National Institute for Occupational Safety

#### · \* Data compared to the previous version altered.

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