



Kit Revision Date: 11/14/2025

834B BLACK FLAME RETARDANT 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	834B-A	Epoxy Resin
B	834B-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

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1 Identification

Product identifier

Trade name: 834B-A

Other Means of Identification: Black Flame Retardant Epoxy (Part A)

Related Part Number: 834B-Part A, 834B-375ML, 834B-2.7L, 834B-10.8L, 834B-60L, 834B-540L

Application of the substance / the mixture Epoxy resin

Uses advised against Not for use as a spray coating

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 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.

Reproductive Toxicity - Category 2 H361 Suspected of damaging fertility or the unborn child.

Aquatic Acute 2 H401 Toxic to aquatic life.

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 GHS08 GHS09

Signal word Warning

Hazard-determining components of labeling:
propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers
Ammonium Polyphosphate
boron zinc hydroxide oxide
Carbon black

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
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 and 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.
P308+P313 IF exposed or concerned: Get medical advice.
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.
P405 Store locked up.
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.

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· Dangerous components:		
25085-99-8	propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	30.0% w/w
21645-51-2	aluminium hydroxide	21.0% w/w
68333-79-9	Ammonium Polyphosphate	19.0% w/w
1344-28-1	aluminium oxide	16.0% w/w
17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane	6.0% w/w
138265-88-0	boron zinc hydroxide oxide	5.0% w/w
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Alternative CAS number: 1675-54-3	1.0% w/w
1333-86-4	Carbon black	0.4% 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.
If exposed or concerned: Get medical advice or attention.

· **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**

If exposed to metal fumes, chills and fever-like symptoms may occur 4-12 hours after exposure.

· **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**

The flu-like symptoms of metal fever may be delayed, occurring 4 to 12 hours after exposure.
Not flammable or combustible, but burns if involved in a fire. Produces irritating smoke of unknown toxicity in fires.

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

Inhalation of metal fumes may cause metal fever and irritate the respiratory tract.

· **Hazardous combustion products:**

Carbon Oxides (COx)

toxic metal fumes

Boron oxides

Zinc oxides

other toxic fumes

· **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**

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

Avoid breathing mist, spray, or vapors.

· **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**

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.

Obtain, read and follow all safety instructions before use.

· **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

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- **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

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 ³ IARC 2B
EV (Canada)	TWA: 3.5 mg/m ³
PEL (USA)	TWA: 3.5 mg/m ³
REL (USA)	TWA: 3.5* mg/m ³ *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV (USA)	TWA: 3* mg/m ³ *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:**
Advice should be sought from respiratory protection specialists.
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:**



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.

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- **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



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 available |
| · Boiling point/Boiling range: | 60 °C (140 °F) |
| · Flammability: | Non flammable |
| · Explosion limits: | |
| · Lower: | Not applicable |
| · Upper: | Not applicable |
| · Flash point: | Not applicable. |
| · Auto igniting: | Not determined |
| · Solubility in / Miscibility with | |
| · Water: | Not miscible or difficult to mix. |
| · Relative density at 25 °C (77 °F): | 1.69 |
| · Vapor density (air=1): | Not available |
| · 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. |
| · Organic solvents: | Not available |
| · VOC content: | 6.000 % |
| | 60.0 g/l / 0.50 lb/gal |
| · Evaporation rate | Not available |

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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 ignition sources, open flames, and incompatible substances.
Do not use in away that forms mist or aerosolizes the product.
- **Incompatible materials:**
Strong bases
Ammonia
Halogenated compounds
Strong oxidizing agents
- **Hazardous decomposition products:** Hazardous combustion products: see section 5.

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
ATE (Acute Toxicity Estimate)		
Oral	LD50	2,632 mg/kg
25085-99-8 propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers		
Dermal	LD50	23,000 mg/kg (rabbit)
21645-51-2 aluminium hydroxide		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	mg/L (rat)
68333-79-9 Ammonium Polyphosphate		
Oral	LD50	500 mg/kg (ATE)
1344-28-1 aluminium oxide		
Oral	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>2 mg/L (mouse)
17557-23-2 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane		
Oral	LD50	2,000 mg/kg (rat)
Dermal	LD50	2,150 mg/kg (rabbit)
138265-88-0 boron zinc hydroxide oxide		
Oral	LD50	>10,000 mg/kg (rat)

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Dermal	LD50	>10,000 mg/kg (rat)
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)		
Oral	LD50	11,400 mg/kg (rat)
1333-86-4 Carbon black		
Oral	LD50	>15,400 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rabbit)

- **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:**
 - cough
 - irritation of the respiratory tract
 - **Swallowed:**
 - nausea, vomiting
 - diarrhea
 - irritation to the mouth, throat, esophagus, and stomach
- **Delayed and immediate effects as well as chronic effects from short and long-term exposure**
 - Long term exposure to zinc borate dust or mist may cause reproductive harm.
 - Long term exposure to carbon black dust or mist may cause cancer.
 - 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**

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

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12 Ecological information

· Toxicity

· Aquatic toxicity:

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

25085-99-8 propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	
LC50 96h	>1 mg/L (N/Av)
138265-88-0 boron zinc hydroxide oxide	
LC50 96h	2.4 mg/L (trout)
LC50/ 48 h	76 mg/L (daphnia)
1333-86-4 Carbon black	
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.

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.

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* 14 Transport information

<ul style="list-style-type: none"> UN-Number DOT/TDG, IMDG, IATA 	UN3082
<ul style="list-style-type: none"> UN proper shipping name DOT/TDG IMDG IATA 	<p>NOT REGULATED by DOT</p> <p>Environmentally hazardous substance, liquid, n.o.s. (propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers)</p> <p>NOT REGULATED by Sea IMDG per 2.10.2.7 for sizes 5L or less.</p> <p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (propane, 2,2-bis[p-(2,3-epoxypropoxy) phenyl]-, polymers)</p> <p>NOT REGULATED by Air IATA Special Provision A197 for sizes 5L or less.</p> <p>Environmentally hazardous substance, liquid, n.o.s. (propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers)</p>
<ul style="list-style-type: none"> Transport hazard class(es) DOT/TDG, IMDG  <ul style="list-style-type: none"> Class Label 	<p>9 Miscellaneous dangerous substances and articles</p> <p>9</p>
<ul style="list-style-type: none"> IATA  <ul style="list-style-type: none"> Class Label 	<p>9 Miscellaneous dangerous substances and articles</p> <p>9</p>
<ul style="list-style-type: none"> Packing group DOT/TDG, IMDG, IATA 	III
<ul style="list-style-type: none"> Environmental hazards: Marine pollutant: Special marking (IATA): 	<p>Product contains environmentally hazardous substances: propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers</p> <p>MARINE POLLUTANT</p> <p>ENVIRONMENTALLY HAZARDOUS</p> <p>Symbol (fish and tree)</p>
<ul style="list-style-type: none"> Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.

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· Transport/Additional information:	
· DOT/TDG	
· Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
· 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.
· 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. (PROPANE, 2,2-BIS[P-(2,3-EPOXYPROPOXY)PHENYL]-, POLYMERS), 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):		
25085-99-8	propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	ACTIVE
21645-51-2	aluminium hydroxide	ACTIVE
68333-79-9	Ammonium Polyphosphate	ACTIVE
1344-28-1	aluminium oxide	ACTIVE
17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane	ACTIVE
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	ACTIVE
1333-86-4	Carbon black	ACTIVE

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· 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)
25085-99-8 propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers
21645-51-2 aluminium hydroxide
68333-79-9 Ammonium Polyphosphate
1344-28-1 aluminium oxide
17557-23-2 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)
1333-86-4 Carbon black
· 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 = * 3
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

• **Date of previous version** 09/22/2025

• **Version number of previous version:** 3.00

• **Date of preparation** 11/14/2025

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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1 Identification

· Product identifier

· Trade name: 834B-B

· Other Means of Identification: Black Flame Retardant Epoxy (Part B)

· Related Part Number:

834B-Part B, 834B-375ML (B), 834B-2.7L (B), 834B-10.8L (B), 834B-60L (B), 834B-540L (B)

· Application of the substance / the mixture Epoxy Hardener

· Uses advised against Not for use as a spray coating

· 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 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 1	H318 Causes serious eye damage.
Sensitization - skin – Category 1	H317 May cause an allergic skin reaction.
Reproductive Toxicity - Category 2	H361 Suspected of damaging fertility or the unborn child.
Aquatic Acute 2	H401 Toxic to aquatic life.
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



GHS05 GHS07 GHS08 GHS09

Signal word Danger

Hazard-determining components of labeling:

fatty acids, C18-unsatd., dimers, reactionproducts with polyethylenepolyamines
boron zinc hydroxide oxide
triethylenetetramine

Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
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 and eye protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and 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/doctor.
P308+P313 IF exposed or concerned: Get medical advice.
P333+P313 If skin irritation or rash occurs: Get medical advice.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P405 Store locked up.
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:

68410-23-1	fatty acids, C18-unsatd., dimers, reactionproducts with polyethylenepolyamines	41.0% w/w
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68333-79-9	Ammonium Polyphosphate	19.0% w/w
21645-51-2	aluminium hydroxide	18.0% w/w
1344-28-1	aluminium oxide	12.0% w/w
138265-88-0	boron zinc hydroxide oxide	5.0% w/w
112-24-3	triethylenetetramine	2.0% w/w
1333-86-4	Carbon black	0.7% w/w
8052-41-3	Stoddard solvent	0.4% 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.
If exposed or concerned: 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.
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.
If exposed to metal fumes, chills and fever-like symptoms may occur 4-12 hours after exposure.

· 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

The flu-like symptoms of metal fever may be delayed, occurring 4 to 12 hours after exposure.
Not flammable or combustible, but burns if involved in a fire. Produces irritating smoke of unknown toxicity in fires.

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

Inhalation of metal fumes may cause metal fever and irritate the respiratory tract.

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

Boron oxides

Zinc oxides

· **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**

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

Avoid breathing mist, spray, or vapors.

· **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**

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.

Obtain, read and follow all safety instructions before use.

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

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- **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
 - **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

8 Exposure controls/ Personal protection

- **Control parameters**

· Components with limit values that require monitoring at the workplace:	
112-24-3 triethylenetetramine	
EV (Canada)	TWA: 3 mg/m ³ , 0.5 ppm Skin
WEEL (USA)	TWA: 6 mg/m ³ , 1 ppm Skin
1333-86-4 Carbon black	
EL (Canada)	TWA: 3 mg/m ³ IARC 2B
EV (Canada)	TWA: 3.5 mg/m ³
PEL (USA)	TWA: 3.5 mg/m ³
REL (USA)	TWA: 3.5* mg/m ³ *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV (USA)	TWA: 3* mg/m ³ *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.

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Protection of hands:



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

Physical state	Liquid
Form:	Highly viscous
Color:	Black
Odor:	Mild
Odor threshold:	Not available
Boiling point/Boiling range:	110 °C (230 °F)
Flammability:	Non flammable
Explosion limits:	
Lower:	Not applicable
Upper:	Not applicable
Flash point:	Not applicable.
Auto igniting:	Not determined
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Vapor pressure at 25 °C (77 °F):	0.1 hPa
Relative density at 25 °C (77 °F):	1.4
Vapor density (air=1):	0.42
Particle characteristics	Not applicable

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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. |
| · Organic solvents: | Not available |
| · VOC content: | 0.000 % |
| | 0.0 g/l / 0.00 lb/gal |
| · Evaporation rate | Not available |

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.

Possibility of hazardous reactions

No dangerous reactions known.

Conditions to avoid

Avoid ignition sources, open flames, and incompatible substances.
Do not use in away that forms mist or aerosolizes the product.

Incompatible materials:

Halogenated compounds
Strong oxidizing agents
Strong acids
Strong bases

Hazardous decomposition products:

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

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	2,632 mg/kg
Dermal	LD50	40,250 mg/kg

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68333-79-9 Ammonium Polyphosphate		
Oral	LD50	500 mg/kg (ATE)
21645-51-2 aluminium hydroxide		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	mg/L (rat)
1344-28-1 aluminium oxide		
Oral	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>2 mg/L (mouse)
138265-88-0 boron zinc hydroxide oxide		
Oral	LD50	>10,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rat)
112-24-3 triethylenetetramine		
Oral	LD50	2,500 mg/kg (rat)
Dermal	LD50	805 mg/kg (rabbit)
1333-86-4 Carbon black		
Oral	LD50	>15,400 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rabbit)

• **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through skin contact.

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

• **Eyes:**

eye damage, pain
redness, serious irritation
pain
loss of vision

• **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

• **Swallowed:**

nausea, vomiting
diarrhea
irritation to the mouth, throat, esophagus, and stomach
burning sensation

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

Prolonged or repeated exposure may cause skin allergies.
Long term exposure to carbon black dust or mist may cause cancer.
Long term exposure to zinc borate dust or mist may cause reproductive harm.

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· **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:**

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

138265-88-0 boron zinc hydroxide oxide	
LC50 96h	2.4 mg/L (trout)
LC50/ 48 h	76 mg/L (daphnia)
112-24-3 triethylenetetramine	
EC50/ 48 h	24 mg/L (daphnia)
LC50 96h	420 mg/L (guppy)
IC50 72h	2 mg/L (algae)
1333-86-4 Carbon black	
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

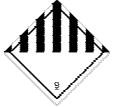
- **Waste treatment methods**
 - **Recommendation:** This material and its container must be disposed of as hazardous waste.
- **Uncleaned packagings:**
 - **Recommendation:**

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.
 - **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

<ul style="list-style-type: none"> · UN-Number · DOT/TDG, IMDG, IATA 	UN3082
<ul style="list-style-type: none"> · UN proper shipping name · DOT/TDG · IMDG · IATA 	<p>NOT REGULATED by DOT</p> <p>Environmentally hazardous substance, liquid, n.o.s. (fatty acids, C18-unsatd., dimers, reactionproducts with polyethylenepolyamines)</p> <p>NOT REGULATED by Sea IMDG per 2.10.2.7 for sizes 5L or less.</p> <p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines)</p> <p>NOT REGULATED by Air IATA Special Provision A197 for sizes 5L or less.</p> <p>Environmentally hazardous substance, liquid, n.o.s. (fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines)</p>
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT/TDG, IMDG 	
 <ul style="list-style-type: none"> · Class · Label 	<p>9 Miscellaneous dangerous substances and articles</p> <p>9</p>

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<p>· IATA</p>  <p>· Class · Label</p>		9 Miscellaneous dangerous substances and articles 9
<p>· Packing group · DOT/TDG, IMDG, IATA</p>		III
<p>· Environmental hazards:</p> <p>· Marine pollutant:</p> <p>· Special marking (IATA):</p>		Product contains environmentally hazardous substances: fatty acids, C18-unsatd., dimers, reactionproducts with polyethylenepolyamines MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS Symbol (fish and tree)
<p>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</p>		Not applicable.
<p>· Transport/Additional information:</p> <p>· DOT/TDG</p> <p>· Quantity limitations</p>		On passenger aircraft/rail: No limit On cargo aircraft only: No limit
<p>· IMDG</p> <p>· Limited quantities (LQ)</p> <p>· Excepted quantities (EQ)</p>		5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<p>· Special precautions for user</p> <p>· Hazard identification number (Kemler code):</p> <p>· EMS Number:</p> <p>· Stowage Category</p>		Not applicable. 90 F-A,S-F A
<p>· UN "Model Regulation":</p>		UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FATTY ACIDS, C18-UNSATD., DIMERS, REACTION PRODUCTS WITH POLYETHYLENEPOLYAMINES), 9, III

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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):

68410-23-1	fatty acids, C18-unsatd., dimers, reactionproducts with polyethylenepolyamines	ACTIVE
68333-79-9	Ammonium Polyphosphate	ACTIVE
21645-51-2	aluminium hydroxide	ACTIVE
1344-28-1	aluminium oxide	ACTIVE
112-24-3	triethylenetetramine	ACTIVE
1333-86-4	Carbon black	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
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Canadian substance listings:

Canadian Domestic Substances List (DSL)	
68410-23-1	fatty acids, C18-unsatd., dimers, reactionproducts with polyethylenepolyamines
68333-79-9	Ammonium Polyphosphate
21645-51-2	aluminium hydroxide
1344-28-1	aluminium oxide
112-24-3	triethylenetetramine
1333-86-4	Carbon black
8052-41-3	Stoddard solvent
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

HMIS-ratings (scale 0 - 4)

Health = * 3
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
- Date of previous version 09/23/2025
- Version number of previous version: 3.00
- Date of preparation 11/14/2025
- 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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