



# Safety Data Sheet

according to WHMIS 2023 and HCS 2024

## 1 Identification

### Product identifier

#### Trade name: 8349TFM-A

Other Means of Identification: Thermal Adhesive

Related Part Number: 8349TFM-A, 8349TFM-25ML, 8349TFM-45ML, 8349TFM-50ML, 8349TFM-200ML

Application of the substance / the mixture Thermally conductive adhesive 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.

### Label elements

#### GHS label elements

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

(Contd. on page 2)

**Safety Data Sheet**  
*according to WHMIS 2023 and HCS 2024*

**Trade name: 8349TFM-A**

(Contd. of page 1)

· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**  
 phenol, polymer with formaldehyde, glycidyl ether  
 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane

· **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.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves, protective clothing, 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.  
 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**

When the product is exposed to very high heat such as welding or when mechanically aerosolized, this may cause harmful and aluminum oxide fumes.

**3 Composition/Information on ingredients**

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

|            |  |           |
|------------|--|-----------|
| 21645-51-2 | aluminium hydroxide  | 50.0% w/w |
| 28064-14-4 | phenol, polymer with formaldehyde, glycidyl ether<br>Alternative CAS number: 9003-36-5 | 30.0% w/w |
| 1344-28-1  | aluminium oxide  | 7.0% w/w  |
| 68333-79-9 | Ammonium Polyphosphate   | 7.0% w/w  |

(Contd. on page 3)

# Safety Data Sheet

according to WHMIS 2023 and HCS 2024

Date of issue 01/09/2026

Version number 3.00

Revision: 01/29/2025

Trade name: 8349TFM-A

---

(Contd. of page 2)

|            |   |          |
|------------|---|----------|
| 17557-23-2 | 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane                   | 3.0% w/w |
| 70700-21-9 | poly(oxy-1,2-ethanediyl), $\alpha$ -methyl- $\omega$ -phosphate | 1.0% w/w |
| 1333-86-4  | Carbon black  | 0.8% w/w |

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## 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.  
If exposed or concerned: Get medical advice or attention.

### · 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.

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## 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

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

#### · Hazardous combustion products:

Carbon Oxides (COx)  
toxic metal fumes  
Zinc oxides

(Contd. on page 4)

# Safety Data Sheet

according to WHMIS 2023 and HCS 2024

Page 4/13

Date of issue 01/09/2026

Version number 3.00

Revision: 01/29/2025

Trade name: 8349TFM-A

(Contd. of page 3)

- **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 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.

- **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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(Contd. on page 5)

Trade name: 8349TFM-A

(Contd. of page 4)

**8 Exposure controls/ Personal protection**

· **Control parameters**

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

| <b>1333-86-4 Carbon black</b> |  |
|-------------------------------|--|
| EL (Canada)                   | TWA: 3 mg/m <sup>3</sup><br>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><br>*0.1 in presence of PAHs; See Pocket Guide Apps.A+C |
| TLV (USA)                     | TWA: 3* mg/m <sup>3</sup><br>*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:**

Not necessary if room is well-ventilated.  
 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:**

For Incidental Contact: Type = Nitrile ; Permeation 3 (> 360 min); Min. Thickness = 0.11 mm ; EN 374-2



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 6)

# Safety Data Sheet

according to WHMIS 2023 and HCS 2024

Date of issue 01/09/2026

Version number 3.00

Revision: 01/29/2025

Trade name: 8349TFM-A

(Contd. of page 5)

· 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:                                    | Viscous                                   |
| · Color:                                   | Black                                     |
| · Odor:                                    | Light                                     |
| · Odor threshold:                          | Not available                             |
| · Melting point/Melting range:             | Not available                             |
| · 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 available                             |
| · pH-value:                                | Not applicable                            |
| · Viscosity:                               |   |
| · Kinematic at 20 °C (68 °F):              | >20.5 mm <sup>2</sup> /s                  |
| · Dynamic:                                 | Not applicable                            |
| · Solubility in / Miscibility with         |   |
| · Water:                                   | Not miscible or difficult to mix.         |
| · Partition coefficient (n-octanol/water): | Not available                             |
| · Vapor pressure:                          | Not determined                            |
| · Relative density at 20 °C (68 °F):       | 1.35                                      |
| · Vapor density (air=1) at 20 °C (68 °F):  | 125 g/cm <sup>3</sup> (1,043.125 lbs/gal) |
| · 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:     | 1.00 %  |
| · VOC content:          | 3.000 %                                       |
| · Solids content:       | 64.0 %  |

(Contd. on page 7)

**Safety Data Sheet**  
*according to WHMIS 2023 and HCS 2024*

Date of issue 01/09/2026

Version number 3.00

Revision: 01/29/2025

**Trade name: 8349TFM-A**

(Contd. of page 6)

|                           |               |
|---------------------------|---------------|
| · <b>Evaporation rate</b> | Not available |
|---------------------------|---------------|

**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**  
 Do not use in away that forms mist or aerosolizes the product.  
 Avoid ignition sources, open flames, and incompatible substances.
- **Incompatible materials:**  
 Ethylene oxides  
 Strong bases  
 Strong acids  
 Halogenated compounds  
 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:**

|   |          |                       |
|---|----------|-----------------------|
| · <b>LD/LC50 values that are relevant for classification:</b>       |          |                       |
| <b>ATE (Acute Toxicity Estimate)</b>                                |          |                       |
| Oral  | LD50     | 7,143 mg/kg           |
| <b>21645-51-2 aluminium hydroxide</b>                               |          |                       |
| Oral  | LD50     | >2,000 mg/kg (rat)    |
| Dermal  | LD50     | >2,000 mg/kg (rat)    |
| Inhalative  | LC50/4 h | mg/L (rat)            |
| <b>28064-14-4 phenol, polymer with formaldehyde, glycidyl ether</b> |          |                       |
| Oral  | LD50     | >2,000 mg/kg (rat)    |
| Dermal  | LD50     | >2,000 mg/kg (rabbit) |

(Contd. on page 8)

**Safety Data Sheet**  
 according to WHMIS 2023 and HCS 2024

Date of issue 01/09/2026

Version number 3.00

Revision: 01/29/2025

**Trade name: 8349TFM-A**

(Contd. of page 7)

|   |          |                       |
|---|----------|-----------------------|
| <b>1344-28-1 aluminium oxide</b>                                |          |                       |
| Oral  | LD50     | >2,000 mg/kg (rat)    |
| Inhalative  | LC50/4 h | >2 mg/L (mouse)       |
| <b>68333-79-9 Ammonium Polyphosphate</b>                        |          |                       |
| Oral  | LD50     | 500 mg/kg (ATE)       |
| <b>17557-23-2 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane</b> |          |                       |
| Oral  | LD50     | 2,000 mg/kg (rat)     |
| Dermal  | LD50     | 2,150 mg/kg (rabbit)  |
| <b>1333-86-4 Carbon black</b>                                   |          |                       |
| 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
  - **Skin:**
    - rash, allergic contact dermatitis
    - redness, irritation
  - **Inhalation:**
    - Low toxicity:
    - Inhalation of fumes may cause metal fever and irritate the respiratory tract.
    - The flu-like symptoms of metal fume fever may be delayed, occurring 4–12 hours after exposure.
  - **Swallowed:**
    - abdominal pain
    - irritation
    - vomiting
    - nausea
- **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 | 2B |

|  |  |  |
|--|--|--|
| <b>· NTP (National Toxicology Program)</b> |  |  |
| None of the ingredients is listed.         |  |  |

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(Contd. on page 9)

**Safety Data Sheet**  
according to WHMIS 2023 and HCS 2024

Date of issue 01/09/2026

Version number 3.00

Revision: 01/29/2025

Trade name: 8349TFM-A

(Contd. of page 8)

## 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

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

|   |  |
|---|--|
| <b>28064-14-4 phenol, polymer with formaldehyde, glycidyl ether</b> |  |
| LC50 96h  | >1–≤10 mg/L (not defined)<br>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** Not readily biodegradable.
- **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.

## 14 Transport information

· **UN-Number**

· **DOT/TDG, IMDG, IATA**

UN3082

(Contd. on page 10)

**Safety Data Sheet**  
 according to WHMIS 2023 and HCS 2024

Date of issue 01/09/2026

Version number 3.00

Revision: 01/29/2025

Trade name: 8349TFM-A

(Contd. of page 9)

|   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT/TDG</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>  | <p>Environmentally hazardous substance, liquid, n.o.s. (phenol, polymer with formaldehyde, glycidyl ether)<br/>         NOT REGULATED by Sea IMDG per 2.10.2.7 for sizes 5L or less.<br/>         ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (phenol, polymer with formaldehyde, glycidyl ether)<br/>         NOT REGULATED by Air IATA Special Provision A197 for sizes 5L or less.<br/>         Environmentally hazardous substance, liquid, n.o.s. (phenol, polymer with formaldehyde, glycidyl ether)</p> |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT/TDG, IMDG</b></li> </ul>  <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> | <p>9 Miscellaneous dangerous substances and articles<br/>         9</p>  |
| <ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>  <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>  | <p>9 Miscellaneous dangerous substances and articles<br/>         9</p>  |
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT/TDG, IMDG, IATA</b></li> </ul>  | <p>III</p>   |
| <ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (IATA):</b></li> </ul>   | <p>MARINE POLLUTANT<br/>         ENVIRONMENTALLY HAZARDOUS<br/>         Symbol (fish and tree)</p>   |
| <ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>  | <p>Not applicable</p>  |
| <ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> <li>· <b>DOT/TDG</b></li> <li>· <b>Quantity limitations</b></li> </ul>   | <p>Not Regulated<br/>         On passenger aircraft/rail: 450 L<br/>         On cargo aircraft only: 450 L</p>   |

(Contd. on page 11)



**Safety Data Sheet**  
according to WHMIS 2023 and HCS 2024

Date of issue 01/09/2026

Version number 3.00

Revision: 01/29/2025

Trade name: 8349TFM-A

(Contd. of page 10)

|   |   |
|---|---|
| · <b>IMDG</b>                                 |   |
| · Limited quantities (LQ)                     | 5L  |
| · Excepted quantities (EQ)                    | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml        |
| · <b>Special precautions for user</b>         | Not applicable  |
| · Hazard identification number (Kemler code): | 90  |
| · EMS Number:                                 | F-A,S-F   |
| · Stowage Category                            | A   |
| · <b>UN "Model Regulation":</b>               | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PHENOL, POLYMER WITH FORMALDEHYDE, GLYCIDYL ETHER), 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.

(Contd. on page 12)

**Safety Data Sheet**  
according to WHMIS 2023 and HCS 2024

Date of issue 01/09/2026

Version number 3.00

Revision: 01/29/2025

**Trade name: 8349TFM-A**

(Contd. of page 11)

· **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%) |                 |
| 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.

| · <b>Per- and polyfluoroalkyl substances (PFAS)</b> |  |
|---|--|
| 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** 09/05/2023
- **Version number of previous version:** 2.01
- **Date of preparation** 01/09/2026
- **Abbreviations and acronyms:**  
IMDG: International Maritime Code for Dangerous Goods

(Contd. on page 13)



**Safety Data Sheet**  
**according to WHMIS 2023 and HCS 2024**

Page 13/13

Date of issue 01/09/2026

Version number 3.00

Revision: 01/29/2025

---

**Trade name: 8349TFM-A**

---

(Contd. of page 12)

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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