

834FRB-A

FLAME RETARDANT EPOXY (PART A)

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: 834FRB-A**Other Means of Identification:** Flame Retardant Epoxy (Part A)**Related Part #** 834FRB-375ML, 834FRB-3L, 834FRB-60L

Recommended Use and Restriction on Use

Use: Resin for use with epoxy hardener**Uses Advised Against:** Not for use as spray coating

Details of Manufacturer or Importer

ManufacturerMG Chemicals
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADAMG Chemicals (Head Office)
9347-193 Street
Surrey, British Columbia V4N 4E7
CANADA**☎** +1-800-340-0772**FAX** +1-800-340-0773**E-MAIL** support@mgchemicals.com**WEB** www.mgchemicals.com**☎** +1-905-331-1396**FAX** +1-905-331-2682**E-MAIL** info@mgchemicals.com**E-MAIL** (Competent Person): sds@mgchemicals.com

Emergency Phone 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

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FLAME RETARDANT EPOXY (PART A)
Section 2: Hazard(s) Identification
Classification of the Chemical Material
GHS Categories

| Criteria | | Category | Signal Word | Pictograms |
|--------------------------------------|---------|----------|-------------|-------------|
| Sensitization | Skin | 1 | Warning | Exclamation |
| Eye Irritation | | 2 | Warning | Exclamation |
| Skin Irritation | | 2 | Warning | Exclamation |
| Carcinogenicity | | 2 | Warning | Health |
| Hazardous to the Aquatic Environment | Chronic | 2 | <i>none</i> | Environment |

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

Label Elements

| | |
|---|--|
| Signal Word | WARNING |
| Pictograms | Hazard Statements |
|  | H319: Causes serious eye irritation H315: Causes skin irritation H317: May cause an allergic skin reaction |
|  | H351: Suspected of causing cancer |
|  | H411: Toxic to aquatic life with long lasting effects |

Section continued on the next page

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Continued...

| Prevention | 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. |
| P280 | Wear protective gloves, eye protection, and face protection. |
| P264 | Wash hands thoroughly after handling. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| Response | Precautionary Statements |
| P308 + P313 | IF exposed or concerned: Get medical advice or attention. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337 + P313 | If eye irritation persists: Get medical advice or attention. |
| P302 + P352 | IF ON SKIN: Wash with plenty of water. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice or attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |
| P391 | Collect spillage. |
| Storage | Precautionary Statements |
| P405 | Store locked up. |
| Disposal | Precautionary Statements |
| P501 | Dispose of contents in accordance to local, regional, national, and international regulations. |

Hazards Not Otherwise Classified

| Other Criteria | Hazard Statements/Precautionary Statement | Signal Word | Pictograms |
|-----------------------|--|--------------------|-------------------|
| None | None | None | None |

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Section 3: Composition/Information on Ingredients

| CAS # | Chemical Name | %(weight) |
|------------|--|-----------|
| 28064-14-4 | phenol, polymer with formaldehyde, glycidyl ether | 60% |
| 84852-53-9 | 1,1'-(1,2-ethanediyl) bis[2,3,4,5,6-pentabromo-benzene | 18% |
| 1309-64-4 | antimony trioxide | 8% |
| 68609-97-2 | alkyl glycidyl ether | 6% |
| 25068-38-6 | bisphenol-A-(epichlorhydrin) epoxy resin | 6% |
| 64741-65-7 | naphtha, petroleum, heavy distillate | 1% |
| 1333-86-4 | carbon black | 0.6% |

Section 4: First-Aid Measures

| <i>Exposure Condition</i> | <i>GHS Code: Precautionary Statement</i> |
|---------------------------|--|
| IF IN EYES | P305 + P351 + P338, P337 + P313 |
| Immediate Symptoms | <i>redness, severe irritation, pain</i> |
| Response | Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. |
| IF ON SKIN | P302 + P352, P333 + P313, P362 + P364 |
| Immediate Symptoms | <i>redness, irritation, rash, dry skin, allergic contact dermatitis</i> |
| Response | Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. |
| IF INHALED | P304 + P340, P308 + P313 |
| Immediate Symptoms | <i>cough, irritation of the respiratory track</i> |
| Response | Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice or attention. |
| IF SWALLOWED | P301 + P330 + P331, P308 + P313 |
| Immediate Symptoms | <i>irritation, stomach/abdominal discomfort or pain</i> |
| Response | Rinse mouth. Do NOT induce vomiting. IF exposed or concerned: Get medical advice or attention. |

834FRB-A**FLAME RETARDANT EPOXY (PART A)****Section 5: Fire-Fighting Measures**

| | |
|----------------------------|--|
| Extinguishing Media | In case of fire: Use extinguishing media suitable for surrounding materials. |
| Specific Hazards | Not flammable or combustible, but will burn if involved in a fire. It should self-extinguishes when removed from external flame sources. Liberates toxic gases at temperature greater than 320 °C [608 °F]. Prevent fire-fighting wash from entering waterway or sewer system. |
| Combustion Products | Produces carbon oxides (CO, CO ₂), hydrogen bromide (HBr), bromines, and toxic fumes. |
| Fire-Fighter | Wear self-contained breathing apparatus and full fire-fighting turn-out gear. |

Section 6: Accidental Release Measures

| | |
|----------------------------------|---|
| Personal Protection | See personal protection recommendations in Section 8. |
| Precautions for Response | Avoid breathing fumes and vapors. Remove or keep away all sources of extreme heat or open flames. |
| Environmental Precautions | Avoid releasing to the environment. Prevent spill from entering drains and waterways. |
| Containment Methods | Contain with inert absorbent (such as soil, sand, vermiculite). |
| Cleaning Methods | Collect liquid in a sealable, chemical-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe off residues with paper towels and place the used towels in the waste container. Use soap and water to remove the last traces of residue. |
| Disposal Methods | Dispose of spill waste according to Section 13. |

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Section 7: Handling and Storage
Prevention

Keep out of reach of children.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse.

Avoid breathing fumes and vapors.

Handling

Wear protective gloves, eye protection, and face protection.

Wash hands thoroughly after handling.

Avoid release to the environment.

Collect spillage.

Storage

Store locked up.

Section 8: Exposure Controls/Personal Protection
Substances with Occupational Exposure Limit Values

| Chemical Name | Country or Vendor | Long Term Exposure Limits (PEL) | Short Term Exposure Limits (STEL) |
|--|-------------------|-------------------------------------|-----------------------------------|
| 1,1'-(1,2-ethanediyl) bis[2,3,4,5,6-pentabromo-benzene | manufacturer | 2 mg/m ³ | Not established |
| antimony trioxide ^{a)} | ACGIH | 0.5 mg/m ³ | Not established |
| | U.S.A. OSHA PEL | 0.5 mg/m ³ | Not established |
| | Canada AB | 0.5 mg/m ³ | Not established |
| | Canada BC | 0.5 mg/m ³ (Carcinogen) | Not established |
| | Canada ON | 0.5 mg/m ³ ^{b)} | Not established |
| | Canada QC | 0.5 mg/m ³ | Not established |
| naphtha, petroleum, heavy distillate | ACGIH | 100 ppm (525 mg/m ³) | Not established |
| | U.S.A. OSHA PEL | 500 ppm (2 900 mg/m ³) | Not established |
| | Canada AB | 572 mg/m ³ | Not established |
| | Canada BC | 290 mg/m ³ | 580 mg/m ³ |
| | Canada ON | 100 ppm | Not established |
| | Canada QC | 525 mg/m ³ | Not established |

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Continued ...

| Chemical Name | Country or Vendor | Long Term Exposure Limits (PEL) | Short Term Exposure Limits (STEL) |
|----------------------------|--------------------------|--|--|
| carbon black ^{a)} | ACGIH | 3.5 mg/m ³ | Not established |
| | U.S.A. OSHA PEL | 3.5 mg/m ³ | Not established |
| | Canada AB | 3.5 mg/m ³ | Not established |
| | Canada BC | 3 mg/m ³ | Not established |
| | Canada ON | 3.5 mg/m ³ | Not established |
| | Canada QC | 3.5 mg/m ³ | Not established |

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS² database and from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) Respirable airborne particles

Engineering Controls

Ventilation

Keep airborne concentrations below the occupational exposure limits (OEL).

Because the carbon black and antimony trioxide are bound to the liquid mixture, it does not present an airborne hazard under normal use. Ensure adequate ventilation if the product is mechanically misted or aerosolized.

Personal Protective Equipment

Eye protection

Wear appropriate protective eyeglasses or chemical safety goggles.

RECOMMENDATION: Use safety glasses with lateral protection (side shields).

Skin Protection

For likely contacts, use of protective butyl rubber, neoprene, or other chemically resistant gloves.

For incidental contacts, use nitrile or other chemically resistant gloves.

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Respiratory Protection

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.

Generally, for emergencies and exposure above 0.5 mg/m³, use a self-contained breathing apparatus with full face piece operated in a pressure positive mode.

RECOMMENDATION: Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

Section 9: Physical and Chemical Properties

| | | | |
|-------------------------------|----------------------|--|--|
| Physical State | Liquid | Lower Flammability Limit | Not applicable |
| Appearance | Black | Upper Flammability Limit | Not applicable |
| Odor | Mildly aromatic | Vapor Pressure @25 °C | Not available |
| Odor Threshold | Not available | Vapor Density | Not available |
| pH | Not available | Relative Density @25 °C | 1.39 |
| Freezing/Melting Point | >150 °C [>302 °F] | Solubility in Water | Partially water soluble |
| Initial Boiling Point | Not available | Partition Coefficient n-octanol/water | Not available |
| Flash Point | Not available | Auto-ignition Temperature ^{a)} | >465 °C [>869 °F] |
| Evaporation Rate | Slow | Decomposition Temperature | Not available |
| Flammability | Non flammable | Viscosity @25 °C | 1 600 cP [1 150 mm ² /s] |

a) Supplier value for the component with the lowest known auto-ignition

834FRB-A**FLAME RETARDANT EPOXY (PART A)****Section 10: Stability and Reactivity**

| | |
|----------------------------|---|
| Reactivity | Reacts exothermically with amines. |
| Chemical Stability | Chemically stable at normal temperatures and pressures. |
| Conditions to Avoid | Excessive heat (especially above 320 °C [608 °F]). Avoid ignition sources, open flames, and incompatible substances. Do not use in a way that forms a mist or aerosolize the product. |
| Incompatibilities | Strong oxidizing agents, strong bases, strong acids |
| Polymerization | Will not occur |
| Decomposition | Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5. |

Section 11: Toxicological Information**Summary of Effects and Symptoms by Routes of Exposure**

| | |
|-------------------|---|
| Eyes | May cause redness, severe eye irritation, and pain. |
| Skin | May cause redness, irritation, dry skin, or allergic contact dermatitis. |
| Inhalation | Mist may cause irritation to the nose, throat and lung (upper respiratory tract). |
| Ingestion | It may cause irritation or abdominal discomfort (see inhalation symptoms). |
| Chronic | Prolonged and repeated exposure may lead to skin sensitization. Long term exposure to dust or mist may cause cancer. Prolonged ingestion of the antimony trioxide component may cause gastrointestinal upset, ulcers, blood effects, liver effects, and neurological effects. |

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Lethal Exposure Concentrations

| Chemical Name | LD50 oral | LD50 dermal | LC50 inhalation |
|--|--------------------------------|-----------------------------------|------------------------|
| phenol, polymer with formaldehyde, glycidyl ether | >2 000 mg/kg ^{a)} | >2 000 mg/kg ^{a)} | Not available |
| 1,1'-(1,2-ethanediyl) bis[2,3,4,5,6-pentabromo-benzene | >5 000 mg/kg Rat ^{a)} | >2 000 mg/kg Rabbit ^{a)} | Not available |
| antimony trioxide | >34 600 mg/kg Rat | >2 000 mg/kg Rabbit | Not available |
| alkyl glycidyl ether | 19 200 mg/kg Rat ^{a)} | 4 500 mg/kg Rat ^{a)} | Not available |
| bisphenol-A epoxy resin (reaction product) | 11 400 mg/kg Rat | 100 pph 7 h Rabbit ^{a)} | Not available |
| naphtha, petroleum, heavy alkylate | Not available | Not available | Not available |
| carbon black | >15 g/kg Rat | >3 g/kg Rabbit | Not available |

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

a) Data from supplier SDS

Other Toxicological Effects
Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory and skin sensitization (allergic reactions)

The epoxy resin components (CAS# 28064-14-4, 68609-97-2, and 25068-38-6) may cause skin sensitization in humans.

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834FRB-A**FLAME RETARDANT EPOXY (PART A)****Carcinogenicity**
(risk of cancer)

The carbon black and antimony trioxide are possibly carcinogenic by airborne routes of exposures. Because they are both bound in the epoxy liquid mixture, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal use.

Antimony Trioxide [1309-64-4]

IARC Group 2B: Possibly carcinogenic to humans. This finding is based on a long term dust inhalation study for female rats.

ACGIH A2: Suspected human carcinogen causing lung cancer

CA Prop 65: Listed as a carcinogen

NTP: Not listed

Carbon Black [1333-86-4]

IARC Group 2B: Possibly carcinogenic to humans

ACGIH A4: Not classified as a human carcinogen

CA Prop 65: Listed as a carcinogen (airborne, as unbound particles of respirable size)

NTP: Not listed

Mutagenicity
(risk of heritable genetic effects)

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

Reproductive Toxicity
(risk to sex functions)

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

Teratogenicity
(risk of fetus malformation)

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

Based on available data, the classification criteria are not met. There is <1% category 1 component and the kinematic viscosity is >20.5 mm²/s at 40 °C.

Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<http://echa.europa.eu>), and other reliable sources.

The epoxy resins (CAS# 28064-14-4, 68609-97-2, and 25068-38-6) have a LC50 for aquatic organisms 1 mg/L to 10 mg/L.

Antimony trioxide (CAS# 1309-64-4) is not classifiable under GHS because it has a LC50 of 833 mg/L for flathead minnow (*pimpehales promelas*) 96 h.

Based on available data, carbon black is not classified as environmental hazard according to GHS criteria.

Acute Ecotoxicity

Category 2

Toxic to aquatic life

Chronic Ecotoxicity

Category 2

Toxic to aquatic life with long lasting effects

Avoid release to the environment. Collect spillage.

Biodegradability

Not available

Bioaccumulation

Not available

Section 13: Disposal Considerations

Dispose of contents in accordance with all local, regional, national, and international regulations.

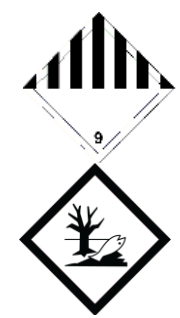
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FLAME RETARDANT EPOXY (PART A)

Section 14: Transport Information

Ground

Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations);
USA DOT 49 CFR (Parts 100 to 185) **Regulations.**

| | |
|---|---|
| <p>Sizes under 450 L <i>Part A of all 834FRB kits</i> NOT REGULATED in TDG per Special Provisions 99</p> | <p>49 CFR: Sizes greater than 5 L <i>Part A of 834FRB-60L kit</i> UN number: UN3082 Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: bisphenol-A- (epichlorhydrin)) Class: 9 Packing Group: III Marine Pollutant: Yes</p> |
| <p>Sizes 5 L and under <i>Part A of 834FRB-375ML, 834FRB-3L kits</i> NOT REGULATED in 49 CFR per exception 171.4 (c)(2)</p> |  |

Special Provision 99 (2): These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety.

Section continued on the next page

834FRB-A**FLAME RETARDANT EPOXY (PART A)****Air****Refer to ICAO-IATA Dangerous Goods Regulations.**

Sizes 5 L and under

*Part A of 834FRB-375ML/3L kits***NOT REGULATED**Not Restricted, as per
Special Provisions A197

Sizes greater than 5 L

*Part A of 834FRB-60L kit***UN number:** UN3082**Shipping Name:**ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S.(Reaction product: bisphenol-A-
(epichlorhydrin))**Class:** 9**Packing Group:** III**Marine Pollutant:** Yes

Special Provision A197: These substances when transported in single or combination packagings containing net quantity per single or inner packaging of less than 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packaging's meet the general provisions 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

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834FRB-A**FLAME RETARDANT EPOXY (PART A)****Sea****Refer to IMDG regulations.**

Sizes 5 L and under
Part A of 834FRB-375ML/3L kits
NOT REGULATED
per 2.10.2.7

Sizes greater than 5 L
Part A of 834FRB-60L kit
UN number: UN3082
Shipping Name:
ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S.
(Reaction product: bisphenol-A-
(epichlorhydrin))
Class: 9
Packing Group: III
Marine Pollutant: Yes



2.10.2.7: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provision of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class, all provisions of this Code relevant to any additional hazards continue to apply.

Note: Shipper must be appropriately trained and certified before involvement with the transport of dangerous goods.

Section 15: Regulatory Information**Canada****Domestic Substance List (DSL)/Non-Domestic Substance Lists (NDSL)**

All hazardous ingredients are listed on the DSL/NDSL.

Ministerial conditions apply to 1,1'-(1,2-ethanediyl) bis[2,3,4,5,6-pentabromo-benzene (CAS # 84852-53-9). See Canada Gazette, Part 1, Vol. 151, No. 41, October 14, 2017.

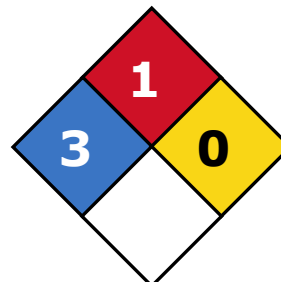
Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

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834FRB-A**FLAME RETARDANT EPOXY (PART A)****USA****Other Classifications****HMIS® RATING**

| | |
|-----------------------------|------------|
| HEALTH: | * 3 |
| FLAMMABILITY: | 1 |
| PHYSICAL HAZARD: | 0 |
| PERSONAL PROTECTION: | |

NFPA® 704 CODES

Approximate HMIS and NFPA Risk Ratings Legend:

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

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does contain an "antimony compound", which is listed as hazardous air pollutants.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product contains antimony trioxide (CAS# 1309-64-4); reportable quantity = 1 000 lb), which is subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

Contains 18% 1,1'-(1,2-ethanediyl)bis[2,3,4,5,6-pentabromo-benzene, with CAS# 84852-53-9, which is subject to a Significant New Use Rule (SNUR) 40 CFR 721.536.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, USA).

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

This product contains antimony trioxide (airborne, unbound particles of respirable size), which is listed as a carcinogen.

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834FRB-A**FLAME RETARDANT EPOXY (PART A)****Europe****RoHS** (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

Section 16: Other Information

Prepared by Regulatory department

Date of Revision 12 March 2020

Supersedes 11 March 2019

Reason for Changes: Update to the emergency phone number information.

Reference

1) ACGIH 2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).

2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

Abbreviations

| | |
|-------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists (USA) |
| EC50 | Half maximal effective concentration |
| EL50 | Half maximal effective loading |
| NOELR | No observable effect loading ratio |
| GHS | Globally Harmonized System of Classification of Labeling of Chemicals |
| LC50 | Lethal Concentration 50% |
| LCLo | Lowest published lethal concentration |
| LD50 | Lethal Dose 50% |
| PEL | Permissible Exposure Limit |
| STEL | Short-Term Exposure Limit |
| TCLo | Lowest published toxic concentration |
| TWA | Time Weighted Average |
| VOC | Volatile Organic Content |

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834FRB-A**FLAME RETARDANT EPOXY (PART A)**

Technical Queries Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

Email: support@mgchemicals.com

Mailing Addresses *Manufacturing & Support*
1210 Corporate Drive
Burlington, Ontario, Canada
L7L 5R6

Head Office
9347-193rd Street
Surrey, British Columbia, Canada
V4N 4E7

Disclaimer

This safety data sheet is provided as an information resource only. *M.G. Chemicals, Ltd.* believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to query and verify any information seeming suspect where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, regional, national, and international regulations.