

SAI Global File #004008

Burlington, Ontario, Canada

834FRB-B

FLAME RETARDANT EPOXY (PART B)

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: 834FRB-B

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

Related Part # 834FRB-375ML, 834FRB-3L, 834FRB-60L

Recommended Use and Restriction on Use

Use: Hardener for use with epoxy resin

Uses Advised Against: Not for use as spray coating

Details of Manufacturer or Importer

Manufacturer

MG Chemicals 1210 Corporate Drive Burlington, Ontario L7L 5R6 **CANADA**

MG Chemicals (Head Office) 9347-193 Street

Surrey, British Columbia V4N 4E7

CANADA

a +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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Section 2: Hazard(s) Identification

Classification of the Chemical Material

GHS Categories

Criteria		Category	Signal Word	Pictograms
Serious Eye Damage		1	Danger	Corrosion
Skin Corrosion		1B	Danger	Corrosion
Sensitization	Skin	1	Warning	Exclamation
Carcinogenicity		2	Warning	Health
Hazardous to the Aquatic Environment	Chronic	2	none	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	DANGER
Pictograms	Hazard Statements
	H314: Causes severe skin burns and eye damage
	H351: Suspected of causing cancer
	H317: May cause an allergic skin reaction
***	H411: Toxic to aquatic life with long lasting effects

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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.
P260	Do not breathe fumes or vapors.
P280	Wear protective gloves, protective clothing, 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.
P303 + P361 + P352	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of water [or shower].
P333 + P313	If skin irritation or rash occurs: Get medical advice or attention.
P363	Wash contaminated clothing before reuse.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor.
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.

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Hazards Not Otherwise Classified

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

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
68410-23-1	fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	63%
84852-53-9	1,1'-(1,2-ethanediyl) bis[2,3,4,5,6-pentabromo-benzene	18%
112-24-3	triethylenetetramine	8%
1309-64-4	antimony trioxide	7%
108-65-6	2-methoxy-1-methylethyl acetate	0.8%
1333-86-4	carbon black	0.7%

Section 4: First-Aid Measures

Exposure Condition	GHS Code: Precautionary Statement
IF IN EYES	P305 + P351 + P338, P310
Immediate Symptoms	redness, severe irritation, pain, burns
Response	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
IF ON SKIN (or hair)	P303 + P361+ P352, P333 + P313, P363
Immediate Symptoms	redness, irritation, rash, pain, burns, blistering
Response	Take off immediately all contaminated clothing. Wash with plenty of water [or shower]. Immediately call a POISON CENTRE or doctor.
	If skin irritation or rash occurs: Get medical advice or attention.
	Wash contaminated clothing before reuse.

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IF INHALED	P304 + P340, P310, P308 + P313
Immediate Symptoms	cough, irritation of the respiratory track, burning sensation
Response	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
	IF exposed or concerned: Get medical advice or attention
IF SWALLOWED	P301 + P330 + P331, P310
IF SWALLOWED Immediate Symptoms	P301 + P330 + P331, P310 burns to mouth, throat, stomach, abdominal pain, nausea, vomiting, diarrhea

Section 5: Fire-Fighting Measures

Extinguishing Media	In case of fire:	Use extinguishing	media s	uitable for	surrounding
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materials.

Specific Hazards Not flammable or combustible but will burn if involved in a fire.

It should self-extinguish 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, CO₂), nitrogen oxides (NO_x),

hydrogen bromide (HBr), bromines, and toxic fumes.

Fire-Fighter Wear self-contained breathing apparatus and full fire-fighting

turn-out gear.



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Section 6: Accidental Release Measures

Personal Protection See personal protection recommendations in Section 8.

Precautions for Response

Do not breathe the fumes or 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, solvent-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. Wash spill area with soap

and water to remove the last traces of residue.

Disposal Methods Dispose of spill waste according to Section 13.

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.

Do not breathe fumes or vapors.

Avoid release to the environment.

Handling Wear protective gloves, protective clothing, eye protection, and

face protection.

Take off contaminated clothing and wash it before reuse.

Wash hands thoroughly after handling.

Collect spillage.

Storage Store locked up.

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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)
triethylenetetramine	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	U.S.A (WEEL)	1 ppm	Not established
	Canada AB	Not established	Not established
	Canada BC	Not established	Not established
	Canada ON	0.5 mg/m ³ (Skin)	Not established
	Canada QC	Not established	Not established
1,1'-(1,2-ethanediyl)	manufacturer	2 mg/m ³	Not established
bis[2,3,4,5,6-			
pentabromo-benzene			
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
1-methoxy-2-propanol	ACGIH	Not established	Not established
acetate	U.S.A. OSHA PEL	50 ppm	Not established
	Canada AB	Not established	Not established
	Canada BC	50 ppm	75 ppm
	Canada ON	50 ppm	Not established
	Canada QC	Not established	Not established
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 RTECS database² 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
- b) Exposure should be controlled to levels as low as possible.

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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.

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.



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3 600 cP

[3 100 mm²/s]

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Section 9: Physical and Chemical Properties

Physical State Liquid **Lower Flammability** Not Limit available Black **Upper Flammability Appearance** Not Limit available Odor Mild **Vapor Pressure** Not @25 °C available Not **Odor Threshold** Not **Vapor Density** available available pН Not **Relative Density** 1.16 available @25 °C Freezing/Melting Practically Not Solubility in Point available Water insoluble **Initial Boiling Partition Coefficient** Not Not available available n-octanol/water **Point Flash Point** Not **Auto-ignition** Not available **Temperature** available **Evaporation** Decomposition Slow Not Rate **Temperature** available

Section 10: Stability and Reactivity

Non

flammable

Reactivity Reacts exothermically with epoxides.

Chemical Stability Chemically stable at normal temperatures and pressures.

Conditions to

Flammability

Avoid

Excessive heat (especially above 320 °C [608 °F]), and incompatible substances. Do not use in a way that forms a mist or aerosolize the

product.

Incompatibilities Strong oxidizing agents, strong acids, strong bases, and amines.

Polymerization Will not occur

Decomposition Will not decompose under normal conditions. For thermal

decomposition, see combustion products in Section 5.

Viscosity @25 °C

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Section 11: Toxicological Information

Summary of Effects and Symptoms by Routes of Exposure

Eyes May cause chemical burns or severe eye irritation, redness, and pain.

Skin May cause chemical burns and serious skin irritation. May cause skin

sensitization. Triethylenetetramine can be absorbed through skin.

Inhalation Hot triethylenetetramine vapors may result in respiratory tract irritation

and itching of the face with erythema and edema. May cause nose, throat and lung irritation. Inhalation of vapors, dust, or mist may cause irritation

to the upper respiratory tract.

Ingestion Single dose oral toxicity is low. It may cause burns or severe irritation to

the digestive tract.

Chronic Prolonged and repeated exposure may lead to skin sensitization reactions.

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	LD50	LC50
	oral	dermal	inhalation
fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	>5 000 mg/kg ^{a)}	>5 000 mg/kg ^{a)}	Not available
1,1'-(1,2-ethanediyl) bis[2,3,4,5,6-pentabromo-benzene	>5 000 mg/kg	>2 000 mg/kg	Not
	Rat ^{a)}	Rabbit ^{a)}	available
triethylenetetramine	2 500 mg/kg	805 g/kg	Not
	Rat	Rabbit	available
antimony trioxide	>34 600 mg/kg	>2 000 mg/kg	Not
	Rat	Rabbit	available
2-methoxy-1-methylethyl acetate	8 532 mg/kg	>5 g/kg	Not
	Rat	Rabbit	available
carbon black	>15 g/kg	>3 g/kg	Not
	Rat	Rabbit	available

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

a) Supplier SDS

Other Toxicological Effects	
Skin corrosion/irritation	Triethylenetetramine (CAS# 112-24-3) can cause skin burns.
Serious eye damage/irritation	Triethylenetetramine (CAS# 112-24-3) can cause severe eye damage.
Respiratory and skin sensitization (allergic reactions)	The epoxy hardener components (CAS# 68410-23-1, and 112-24-3) may cause skin sensitization in humans.

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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)

Reproductive Toxicity (risk to sex functions)

Teratogenicity

(risk of fetus malformation)

STOT-single exposure

.

Based on available data, the classification criteria are

not met.

Based on available data, the classification criteria are

not met.

Based on available data, the classification criteria are

not met.

Based on available data, the classification criteria are

not met.

STOT-repeated exposureBased on available data, the classification criteria are

not met.

Aspiration hazardBased on available data, the classification criteria are

not met. The kinematic viscosity is >20.5 mm²/s at

40 °C.

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ISO 9001:2015 Quality Management System

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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 fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines (CAS# 68410-23-1) was classified as a chronic category 2 environmental toxicant (supplier reports LC50 range of 1-10 mg/L for fish; EC0 bacterial >10 and ≤ 100 mg/L; not readily biodegradable).

Literature for the triethylenetetramine (CAS# 112-24-3) suggest low category 3 aquatic toxicity (LC50, IC50, and EC50 values of >100 mg/L for fish and between 10 and 100 for algae).

The 1-methoxy-2-propanol acetate component is an acute category 3 environmental toxicant (with minimal LC50 96 h of \geq 100 mg/L Salmo gairdneri).

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

Acute Ecotoxicity

See chronic ecotoxicity

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



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Section 13: Disposal Considerations

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

Section 14: Transport Information

Ground

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

Sizes 1 L and under Part B of 834FRB-375ML, 834FRB-3L kits

Limited Quantity
Note: The 834FRB375ML and 834FRB-3L
kits are composed of
separate containers
which meet this inner
packaging limit.



Sizes greater than 1 L (Cargo only)

Part B of 834FRB-60L kit UN number: UN2735 Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (triethylenetetramine)

Class: 8

Packing Group: II Marine Pollutant: Yes



Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 0.5 L and under **Limited Quantity**



Sizes greater than 0.5 L up to 1 L

UN number: UN2735 **Shipping Name:** AMINES, LIQUID, CORROSIVE, N.O.S. (triethylenetetramine)

Class: 8

Packing Group: II Marine Pollutant: Yes



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Sea

Refer to IMDG regulations.

Sizes 1 L and under Limited Quantity



Sizes greater than 1 L UN number: UN2735 Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (triethylenetetramine)

Class: 8

Packing Group: II Marine Pollutant: Yes



Note: Shipper must be appropriately <u>trained and certified</u> 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-pentabromobenzene (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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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 are listed as carcinogens.

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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.

Section 16: Other Information

MSDS 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®)

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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

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.

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Burlington, Ontario, Canada Surrey, British Columbia, Canada

L7L 5R6 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.