



Kit Revision Date: 20/04/2022

## **834FX BLACK FLEXIBLE EPOXY, THERMAL CONDUCTIVE—FLAME RETARDANT ENCAPSULATING AND POTTING COMPOUND 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><b>Part</b></i>	<i><b>Product Name</b></i>	<i><b>Product Use</b></i>
A	834FX-A	Epoxy resin for use with hardeners
B	834FX-B	Epoxy hardener for use with resins

*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.

834FX-A

**(PART A)**

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

**Product Identifier:** 834FX-A**Other Product Identifier:** Black Flexible Epoxy, Thermally Conductive – Flame Retardant, Encapsulating And Potting Compound**Related Part #** 834FX-450ML, 834FX-1.7L, 834FX-7.4L, 834FX-40L

### Recommended Use and Restriction on Use

**Use:** Epoxy resin for use with hardeners**Uses Advised Against:** Not applicable

### Details of Manufacturer or Importer

**Manufacturer**

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



+1-800-340-0772

**FAX** +1-800-340-0773**E-MAIL** [support@mgchemicals.com](mailto:support@mgchemicals.com)**WEB** [www.mgchemicals.com](http://www.mgchemicals.com)**E-MAIL** (Competent Person): [sds@mgchemicals.com](mailto: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

**834FX-A****(PART A)****Section 2: Hazard(s) Identification****Classification of Hazardous Chemical****GHS Categories**

Criteria		Category	Signal Word	Pictograms
Sensitization	Skin	1	Warning	Exclamation
Eye Irritation		2	Warning	Exclamation
Skin Irritation		2	Warning	Exclamation
Acute Toxicity	Oral	4	Warning	Exclamation
Reproductive Toxicity		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**

<b>Signal Word</b>	<b>WARNING</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H317: May cause an allergic skin reaction H319: Causes serious eye irritation H315: Causes skin irritation H302: Harmful if swallowed
	H361: Suspected of damaging fertility or the unborn child
	H411: Toxic to aquatic life with long lasting effects

*Section continued on the next page*

**834FX-A****(PART A)***Continued...*

<b>Prevention</b>	<b>Precautionary Statements</b>
P102	Keep out of reach of children.
P201, P202	Obtain special instructions before use. Do not handle until all safety precautions have been understood.
P261	Avoid breathing fumes/vapors.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P272	Contaminated work clothing should not be allowed out of the workplace.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
<b>Response</b>	<b>Precautionary Statements</b>
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/attention.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P301 + P312, P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.
<b>Storage</b>	<b>Precautionary Statements</b>
P405	Store locked up.
<b>Disposal</b>	<b>Precautionary Statements</b>
P501	Dispose of contents/container in accordance to local/regional/international regulations.

**Hazards Not Otherwise Classified**

<b>Other Criteria</b>	<b>Hazard Statements/Precautionary Statement</b>	<b>Signal Word</b>	<b>Pictograms</b>
None	None	None	None

**834FX-A**
**(PART A)**
**Section 3: Composition/Information on Ingredients**

<b>CAS #</b>	<b>Chemical Name</b>	<b>%(weight)</b>
25085-99-8	bisphenol-A-(epichlorhydrin)	22%
21645-51-2	aluminum trihydrate	22%
68333-79-9	ammonium polyphosphate	19%
1344-28-1	aluminium oxide	14%
41638-13-5	polyglycol, epichlorohydrin polymer	8%
68609-97-2	alkyl glycidyl ether	7%
138265-88-0	zinc borate	5%
25068-38-6	bisphenol-A epoxy resin (reaction product) <sup>a)</sup>	1%
68037-01-4	1-decene, homopolymer, hydrogenated	0.6%
64741-65-7	naphtha (petroleum), heavy alkylate	0.4%
1333-86-4	carbon black	0.4%

a) average molecular weight of  $\leq 700$

**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
<b>IF IN EYES</b>	P305 + P351 + P338, P337 + P313
<b>Immediate Symptoms</b>	<i>redness, irritation</i>
<b>Response</b>	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/attention.
<b>IF ON SKIN</b>	P302 + P352, P333 + P313, P362 + P364
<b>Immediate Symptoms</b>	<i>redness, irritation, dry skin, allergic contact dermatitis</i>
<b>Response</b>	Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

*Section continued on the next page*

**834FX-A****(PART A)***Continued...*

<b>IF INHALED</b>	P304 + P340, P312
<b>Immediate Symptoms</b>	<i>cough, respiratory irritation</i>
<b>Response</b>	Remove person to fresh air and keep comfortable for breathing. If you feel unwell: Get medical advice/attention.
<b>IF SWALLOWED</b>	P301 + P312, P330, P308 + P313
<b>Immediate Symptoms</b>	<i>irritation, harmful</i>
<b>Response</b>	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. If exposed or concerned: Get medical advice/attention.

**Section 5: Fire-Fighting Measures**

<b>Extinguishing Media</b>	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
<b>Specific Hazards</b>	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.
<b>Combustion Products</b>	Produces carbon oxides (CO,CO <sub>2</sub> ) and toxic fumes.
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**Section 6: Accidental Release Measures**

<b>Personal Protection</b>	See personal protection recommendations in Section 8.
<b>Precautions for Response</b>	Avoid breathing the fumes/vapors. Remove or keep away all sources of extreme heat or open flames.
<b>Environmental Precautions</b>	Avoid releasing to the environment. Prevent spill from entering drains and waterways.
<b>Containment Methods</b>	Contain with inert and non-flammable absorbent (such as soil, sand, vermiculite).

*Section continues on the next page*

**834FX-A****(PART A)****Cleaning Methods**

Collect liquid in a sealable, chemical-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wash residue with a paper towel wetted with alcohol, ethyl lactate, or another suitable organic solvent; and place dirty towels in container. Use 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 understood.

Avoid breathing fumes/vapors.

Avoid release to the environment.

**Handling**

Protective gloves/protective clothing/eye protection/face protection

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

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Collect spillage.

**Storage**

**RECOMMENDATION:** Keep in a dry and clean area, away from incompatible substances.

834FX-A

(PART A)

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

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
aluminum metal and insoluble compounds <sup>a)</sup>	ACGIH	1 mg/m <sup>3</sup>	Not established
	U.S.A. OSHA PEL	15 mg/m <sup>3</sup>	Not established
	Canada AB	10 mg/m <sup>3</sup>	Not established
	Canada BC	1 mg/m <sup>3</sup>	Not established
	Canada ON	1 mg/m <sup>3</sup>	Not established
	Canada QC	10 mg/m <sup>3</sup>	Not established
aluminium oxide	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	5 mg/m <sup>3</sup>	Not established
	Canada AB	10 mg/m <sup>3</sup>	Not established
	Canada BC	Not established	Not established
	Canada ON	Not established	Not established
	Canada QC	10 mg/m <sup>3</sup>	Not established
carbon black <sup>a)</sup>	ACGIH	3.5 mg/m <sup>3</sup>	Not established
	U.S.A. OSHA PEL	3.5 mg/m <sup>3</sup>	Not established
	Canada AB	3.5 mg/m <sup>3</sup>	Not established
	Canada BC	3 mg/m <sup>3</sup>	Not established
	Canada ON	3.5 mg/m <sup>3</sup>	Not established
	Canada QC	3.5 mg/m <sup>3</sup>	Not established

*Note:* Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS<sup>2</sup> 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).

Note that the aluminum oxide, and carbon black are inextricably bound to the adhesive mixture; therefore, they are not available as airborne hazard under normal or foreseeable condition of use. Ensure adequate ventilation if the product is mechanically misted or aerosolized.

*Section continued on the next page*



**834FX-A****(PART A)****Personal Protective Equipment****Eye protection**

Wear appropriate protective eyeglasses or chemical safety goggles.

**RECOMMENDATION:** Ensure that glasses have side shields for lateral protection.

**Skin Protection**

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

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

**Respiratory Protection**

For over-exposures up to 10 x OEL of mist/vapors/spray, wear respirator such as a half-mask respirator with organic vapor cartridges.

Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

**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.

834FX-A

**(PART A)****Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b>	Not available
<b>Appearance</b>	Black	<b>Upper Flammability Limit</b>	Not available
<b>Odor</b>	Mild	<b>Vapor Pressure @20 °C</b>	Not available
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	Not available
<b>pH</b>	Not available	<b>Relative Density @25 °C</b>	1.63
<b>Freezing/Melting Point</b>	Not available	<b>Solubility in Water</b>	Negligible
<b>Initial Boiling Point</b>	≥218 °C [≥424 °F]	<b>Partition Coefficient n-octanol/water</b>	Not available
<b>Flash Point</b>	>150 °C [>302 °F]	<b>Auto-ignition Temperature <sup>b)</sup></b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Decomposition Temperature</b>	Not available
<b>Flammability</b>	Not available	<b>Viscosity @25 °C</b>	4 566 cP

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Reacts exothermically with amines.
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Ignition sources, open flames, and incompatible substances
<b>Incompatibilities</b>	Strong oxidizing agents, strong acids, alkali
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

**834FX-A****(PART A)****Section 11: Toxicological Information****Summary of Effects and Symptoms by Routes of Exposure**

<b>Eyes</b>	May cause redness, or irritation.
<b>Skin</b>	May cause skin redness, irritation, dry skin, or allergic contact dermatitis.
<b>Inhalation</b>	May cause cough and respiratory irritation.
<b>Ingestion</b>	May cause irritation and is harmful if swallowed.
<b>Chronic</b>	Prolonged and repeated exposure may lead to skin sensitization.

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
bisphenol-A-(epichlorhydrin)	19 200 mg/kg Rat	4 500 mg/kg Rat	Not available
aluminum trihydrate	>10 000 mg/kg Rat	>10 000 mg/kg Rabbit	Not available
ammonium polyphosphate	>300 mg/kg Rat	Not available	Not available
aluminium oxide	>2 000 mg/kg Rat	Not available	Not available
alkyl glycidyl ether	19 000 mg/kg Rat	>4 000 mg/kg Rat	Not available
zinc borate	>10 000 mg/kg Rat	>10 000 mg/kg Rat	>5.0 mg/L 4 h Rat <sup>a)</sup>
bisphenol-A epoxy resin (reaction product)	>2 000 mg/kg Rat	>2 000 mg/kg Rat	Not available
1-decene, homopolymer, hydrogenated	>2 000 mg/kg Rat	>2 000 mg/kg Rat	>5.2 mg/L 4 h Rat

*Section continued on the next page*

**834FX-A****(PART A)**

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
naphtha (petroleum), heavy alkylate	>7 600 mg/kg Rat	>3 040 mg/kg Rat	>5.9 mg/L 4 h Rat
carbon black	>15 g/kg Rat	>3 g/kg Rabbit	Not available

Note: Toxicity data from the RTECS<sup>2</sup> and ECHA databases were consulted. The data from supplier SDS were also consulted.

a) Supplier value based on zinc (4:1) borate monohydrate

**Other Toxicological Effects****Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Sensitization**

(allergic reactions)

Skin sensitizer based on animal studies on the epoxy components.

**Carcinogenicity**

(risk of cancer)

The carbon black [1333-86-4] is possibly carcinogenic by airborne routes of exposures under WHMIS.

Because the carbon black is bound in the epoxy liquid mixture, it is not available as an airborne hazard (dust, mist, or spray) under normal use.

**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)

Animal ingestion studies show that high doses of zinc borate cause reproductive and developmental effects.

**Teratogenicity**

(risk of fetus malformation)

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

*Section continued on the next page*

**834FX-A****(PART A)****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. The liquid content is not an aspiration hazard. It has a kinematic viscosity  $>20.5 \text{ mm}^2/\text{s}$ .

**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.

In Europe, similar epoxy resin mixtures with CAS# 25068-38-6 and 25085-99-8 have an average molecular weight of less than 700 and are generally classified as chronic category 2 marine pollutant due to LC50 96 h of  $>1 \text{ mg/L}$  but  $\leq 10 \text{ mg/L}$ .

The zinc borate is classified as a chronic category 1 environmental toxicant with a M-Factor of 1 (with minimal LC50 96 h of  $2.4 \text{ mg/L}$  for *Oncorhynchus mykiss* (rainbow trout); LC50 48 h of  $76 \text{ mg/L}$  *Daphnia magna* (water flea); and transformation/dissolution endpoint for zinc borate powder that release of  $0.452 \text{ mg/L}$  of zinc ion, which is higher than zinc's NOEC limit).

Based on available data, carbon black and alkyl glycidyl ether are not classified as environmental hazards 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

**834FX-A**
**(PART A)**
**Section 13: Disposal Information**

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 under 450 L

*Part A of all 834FX kits*

**NOT REGULATED** in TDG  
per Special Provisions 99

Sizes 5 L and under

*Part A of 834FX-450ML, 834FX-1.7L,  
834FX-7.4L kits*

**NOT REGULATED** in 49 CFR  
per exception 171.4 (c)(2)

49 CFR: Sizes greater than 5 L

*Part A of 834FX-40L*

**UN number:** UN3082

**Shipping Name:**

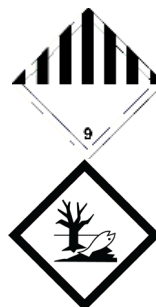
ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S.

(Reaction product: bisphenol-A-  
(epichlorhydrin), zinc borate)

**Class:** 9

**Packing Group:** III

**Marine Pollutant:** Yes



**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*

**834FX-A**
**(PART A)**
**Air**
**Refer to ICAO-IATA Dangerous Goods Regulations.**
**Sizes 5 L and under:**
*Part A of 834FX-450ML, 834FX-1.7L, 834FX-7.4L kits*
**NOT REGULATED**

Not Restricted, as per  
Special Provisions A197

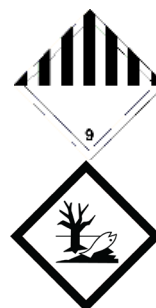
**Sizes greater than 5 L:**
*Part A of 834FX-40L*
**UN number:** UN3082

**Shipping Name:**

ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S.  
(Reaction product: bisphenol-A-  
(epichlorhydrin), zinc borate)

**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 packagings meet the general provisions 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**Sea**
**Refer to IMDG regulations.**
**Sizes 5 L and under:**
*Part A of 834FX-450ML, 834FX-1.7L, 834FX-7.4L kits*
**NOT REGULATED**

per 2.10.2.7

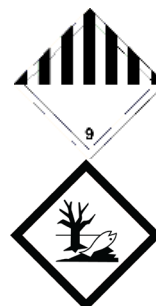
**Sizes greater than 5 L:**
*Part A of 834FX-40L*
**UN number:** UN3082

**Shipping Name:**

ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S.  
(Reaction product: bisphenol-A-  
(epichlorhydrin), zinc borate)

**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.

**834FX-A****(PART A)****Section 15: Regulatory Information****Canada****Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)**

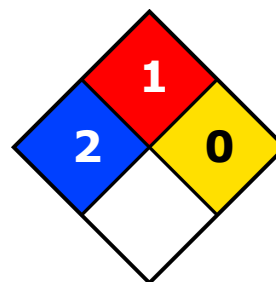
All hazardous ingredients are listed on the DSL/NDSL.

**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.

**USA****Other Classifications****HMIS<sup>®</sup> RATING**

<b>HEALTH:</b>	<b>* 2</b>
<b>FLAMMABILITY:</b>	<b>1</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

**NFPA<sup>®</sup> 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 not contain substances that are listed as hazardous air pollutants.

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

This product does not contain zinc borate (CAS# 138265-88-0), which have a 1 000 lb reporting quantity requirements in 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.

*Section continued on the next page*



**834FX-A****(PART A)**

**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.

**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**

<b>SDS Prepared by</b>	MG Chemicals' Regulatory Department
<b>Date of Review</b>	20 April 2022
<b>Supersedes</b>	02 March 2020
<b>Reason for Changes:</b>	Modifications to section 14.

**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®)

*Section continued on the next page*

**834FX-A****(PART A)****Abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
EC50	Half maximal effective concentration
EL50	Half maximal effective loading
IARC	International Agency for Research on Cancer
NOELR	No observable effect loading ratio
NTP	National Toxicology Program
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
SDS	Safety Data Sheet
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](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

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

**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.

834FX- B

**(PART B)**

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

**Product Identifier:** 834FX-B**Other Product Identifier:** Black Flexible Epoxy, Thermally Conductive – Flame Retardant, Encapsulating and Potting Compound**Related Part #** 834FX-450ML, 834FX-1.7L, 834FX-7.4L, 834FX-40L

### Recommended Use and Restriction on Use

**Use:** Epoxy hardener for use with resins**Uses Advised Against:** Not applicable

### Details of Manufacturer or Importer

**Manufacturer**

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

**TEL** +1-800-340-0772**FAX** +1-800-340-0773**E-MAIL** [support@mgchemicals.com](mailto:support@mgchemicals.com)**WEB** [www.mgchemicals.com](http://www.mgchemicals.com)**E-MAIL** (Competent Person): [sds@mgchemicals.com](mailto: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 serviceCANADA—Call CANUTEC collect at **+1-613-996-6666** or **\*666** on cellular phones

**834FX- B****(PART B)****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		1	Danger	Corrosion
Sensitization	Skin sensitizer	1	Warning	Exclamation
Acute Toxicity	Oral	4	Warning	Exclamation
Reproductive Toxicity		2	Warning	Health
Specific Target Organ Toxicity	Repeated Exposure	2	Warning	Health
Hazardous to the Aquatic Environment	Chronic	1	Warning	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**

<b>Signal Word</b>	<b>DANGER</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H314: Causes severe skin burns and eye damage
	H317: May cause an allergic skin reaction H302: Harmful if swallowed
	H361: Suspected of damaging fertility or the unborn child H373: May cause damage to liver and immune system through prolonged or repeated exposure

*Section continued on the next page*

**834FX- B****(PART B)***Continued...*

<b>Pictograms</b>	<b>Hazard Statements</b>
	H410: Very toxic to aquatic life with long lasting effects
<b>Prevention</b>	<b>Precautionary Statements</b>
P102	Keep out of reach of children.
P201 + P202	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
P260	Do not breathe fumes/vapors.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
<b>Response</b>	<b>Precautionary Statements</b>
P310	For all routes of exposure: Immediately call a POISON CENTER/doctor.
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 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.

*Section continued on the next page*

**834FX- B****(PART B)***Continued...*

<b>Storage</b>	<b>Precautionary Statements</b>
P405	Store locked up.
<b>Disposal</b>	<b>Precautionary Statements</b>
P501	Dispose of contents in accordance to local, regional, national and international regulations.

**Hazards Not Otherwise Classified**

<b>Other Criteria</b>	<b>Hazard Statements/Precautionary Statement</b>	<b>Signal Word</b>	<b>Pictograms</b>
None	None	None	None

**Section 3: Composition/Information on Ingredients**

<b>CAS #</b>	<b>Chemical Name</b>	<b>%(weight)</b>
21645-51-2	aluminum trihydrate	26%
9046-10-0	polyoxypropylenediamine	19%
68333-79-9	ammonium polyphosphate	19%
1344-28-1	aluminum oxide	16%
61788-44-1	phenol, styrenated	6%
138265-88-0	zinc borate	5%
61788-46-3	amines, coco alkyl	3%
25620-58-0	trimethylhexamethylenediamine	3%
1333-86-4	carbon black	0.5%

## 834FX- B

## (PART B)

**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
<b>IF IN EYES</b>	P305 + P351 + P338, P310
<b>Immediate Symptoms</b>	<i>redness, severe irritation, pain, burns</i>
<b>Response</b>	Rinse cautiously with water for 30 minutes or more. Remove contact lenses, if present and easy to do. Continue rinsing.  Immediately call a POISON CENTER/doctor.
<b>IF ON SKIN (or hair)</b>	P303 + P361+ P353, P310, P363, P333 + P313
<b>Immediate Symptoms</b>	<i>redness, irritation, rash (allergic contact dermatitis), pain, chemical burns, blistering</i>
<b>Response</b>	Take off immediately all contaminated clothing. Wash with plenty of water/shower.  Immediately call a POISON CENTRE/doctor.  Wash contaminated clothing before reuse.  If skin irritation or rash occurs: Get medical advice/attention.
<b>IF SWALLOWED</b>	P301 + P330 + P331, P310
<b>Immediate Symptoms</b>	<i>irritation, abdominal pain, nausea, vomiting, burns to the digestive tract</i>
<b>Response</b>	Rinse mouth. Do not induce vomiting.  Immediately call a POISON CENTER/doctor.  If you feel unwell, get medical advice.
<b>IF INHALED</b>	P304 + P340, P310
<b>Immediate Symptoms</b>	<i>cough, irritation of the respiratory track, burning sensation</i>
<b>Response</b>	Remove person to fresh air and keep comfortable for breathing.  Immediately call a POISON CENTER/doctor.

**Advice to Physicians**

In case of exposure to combustion products during a fire, the symptoms of overexposure to nitrogen oxides (NO<sub>x</sub>) may be delayed. For significant exposures, the exposed person should be kept under medical surveillance for 48 hours.

**834FX- B****(PART B)****Section 5: Fire-Fighting Measures**

<b>Extinguishing Media</b>	In case of fire: Use extinguishing media suitable for surrounding materials.
<b>Specific Hazards</b>	Not flammable or combustible, but burns if involved in a fire. Produces irritating and toxic fumes in fires or in contact with hot surfaces.  Prevent fire-fighting wash from entering waterway or sewer system.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> ), and other toxic fumes.
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**Section 6: Accidental Release Measures**

<b>Personal Protection</b>	Use personal protection recommended in Section 8.
<b>Precautions for Response</b>	Do not breathe fumes/vapors.
<b>Environmental Precautions</b>	Avoid releasing to the environment. Prevent spill from entering drains and waterways. Do not flush to sewer.
<b>Containment Methods</b>	Contain with inert absorbent (such as soil, sand, vermiculite).
<b>Cleaning Methods</b>	Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe residue with a paper towel wetted with a suitable organic solvent such as alcohol or ethyl lactate, and place dirty towels in container. Wash spill area with soap and water to remove the last traces of residue. Collect spill waste in a sealable container.
<b>Disposal Methods</b>	Dispose spill waste according to Section 13.



**834FX- B****(PART B)****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.

Do not breathe fumes/vapors.

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

Do not eat, drink, or smoke when using this product.

Avoid release to the environment.

**Handling**

Collect spillage.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands thoroughly after handling.

Wash contaminated clothing before reuse.

**Storage**

Store locked up.

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

<b>Chemical Name</b>	<b>Country</b>	<b>Long Term Exposure Limits (PEL)</b>	<b>Short Term Exposure Limits (STEL)</b>
aluminum metal and insoluble compounds <sup>a)</sup>	ACGIH	1 mg/m <sup>3</sup>	Not established
	U.S.A. OSHA PEL	15 mg/m <sup>3</sup>	Not established
	Canada AB	10 mg/m <sup>3</sup>	Not established
	Canada BC	1 mg/m <sup>3</sup>	Not established
	Canada ON	1 mg/m <sup>3</sup>	Not established
	Canada QC	10 mg/m <sup>3</sup>	Not established
aluminum oxide	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	5 mg/m <sup>3</sup>	Not established
	Canada AB	10 mg/m <sup>3</sup>	Not established
	Canada BC	Not established	Not established
	Canada ON	Not established	Not established
	Canada QC	10 mg/m <sup>3</sup>	Not established

*Section continued on the next page*

**834FX- B****(PART B)***Continued...*

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
carbon black <sup>a)</sup>	ACGIH	3.5 mg/m <sup>3</sup>	Not established
	U.S.A. OSHA PEL	3.5 mg/m <sup>3</sup>	Not established
	Canada AB	3.5 mg/m <sup>3</sup>	Not established
	Canada BC	3 mg/m <sup>3</sup>	Not established
	Canada ON	3.5 mg/m <sup>3</sup>	Not established
	Canada QC	3.5 mg/m <sup>3</sup>	Not established

*Note:* Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS<sup>2</sup> 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).

Due to low vapor pressure of the product, general ventilation should be adequate for normal use. If the product is heated at high temperatures or worker is allergic, use local ventilation and consider using a full mask breathing apparatus.

Because carbon black is bound to the liquid mixture, it does not present an airborne hazard under normal use.

**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.

*Section continued on the next page*

**834FX- B****(PART B)**

**Respiratory Protection** For over-exposures up to 10 x OEL of mist/vapors/spray, wear respirator such as a half-mask respirator with organic vapor cartridges.

Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

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.

**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.

## 834FX- B

## (PART B)

## Section 9: Physical and Chemical Properties

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b>	Not available
<b>Appearance</b>	Black	<b>Upper Flammability Limit</b>	Not available
<b>Odor</b>	Mild	<b>Vapor Pressure @20 °C</b>	1 hPa [0.75 mmHg]
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	Not available
<b>pH</b>	Not available	<b>Relative Density @25 °C</b>	1.62
<b>Freezing/Melting Point</b>	Not available	<b>Solubility in Water</b>	Slightly soluble
<b>Initial Boiling Point</b> <sup>a)</sup>	>200 °C [>392 °F]	<b>Partition Coefficient n-octanol/water</b>	Not available
<b>Flash Point</b> <sup>a)</sup>	>124 °C [>255 °F]	<b>Auto-ignition Temperature</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Decomposition Temperature</b>	Not available
<b>Flammability</b>	Non Flammable	<b>Viscosity @25 °C</b>	2 820 mm <sup>2</sup> /s [4 670 cP]

a) Component with the lowest literature value polyoxypropylenediamine

## Section 10: Stability and Reactivity

<b>Reactivity</b>	Reacts exothermically with epoxides.
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Avoid excessive heat and incompatible substances. Do not use in a way that forms a mist or aerosolize the product.
<b>Incompatibilities</b>	Strong oxidizing agents, strong acids, strong bases
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

**834FX- B****(PART B)****Section 11: Toxicological Information****Summary of Effects and Symptoms by Routes of Exposure**

<b>Eyes</b>	May cause redness, severe eye irritation, pain, and/or burns.
<b>Skin</b>	May cause redness, serious skin irritation, allergic contact dermatitis, pain, chemical burns, or blistering.
<b>Inhalation</b>	Inhalation of vapors or mist may cause irritation to the nose, throat and lung (upper respiratory tract).
<b>Ingestion</b>	May cause irritation, abdominal pain, nausea, vomiting, burns to the digestive tract. May cause allergic reactions (see inhalation symptoms).
<b>Chronic</b>	Prolonged and repeated exposure to uncured epoxy hardener may lead to skin sensitization. It may also lead to reproductive effects and damage to the liver and central nervous system.

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
aluminum trihydrate	>10 000 mg/kg Rat	>10 000 mg/kg Rabbit <sup>a)</sup>	Not available
polyoxypropylenediamine	>480 mg/kg Rat	2 090 mg/kg Rabbit	Not available
ammonium polyphosphate	>300 mg/kg Rat	Not available	Not available
aluminium oxide	>2 000 mg/kg Rat	Not available	Not available
phenol, styrenated	3 700 mg/kg Rat <sup>a)</sup>	>5 010 mg/kg Rabbit <sup>a)</sup>	>4.9 mg/L (mist) Rat <sup>a)</sup>
zinc borate	>10 000 mg/kg Rat	>10 000 mg/kg Rat	>5.0 mg/L 4 h Rat <sup>a)</sup>
amines, coco alkyl	1 300 mg/kg Rat <sup>a)</sup>	>2 000 mg/kg Rat <sup>a)</sup>	Not available

*Section continued on the next page*

**834FX- B****(PART B)***Continued...*

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
trimethylhexamethylenediamine	Not available	Not available	Not available
carbon black	15 400 mg/kg Rat	3 000 mg/kg Rat	Not available

*Note:* Toxicity data from the RTECS<sup>2</sup> and ECHA databases were consulted. The data from supplier SDSs were also consulted.

a) Supplier MSDS

**Other Toxicological Effects****Skin corrosion/irritation**

The hardener system causes skin burns.

**Serious eye  
damage/irritation**

The hardener system causes severe eye damage.

**Respiratory and skin  
sensitization** (allergic reactions)

Phenol, trimethylhexamethylenediamine and 2,4,6-tris(dimethylaminomethyl)phenol may cause skin sensitization according to animal studies.

**Carcinogenicity**  
(risk of cancer)

The carbon black [1333-86-4] is possibly carcinogenic by airborne routes of exposures.

Because the carbon black is bound in the epoxy liquid mixture, it is not available as an airborne hazard (dust, mist, or spray) under normal use.

**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)

Animal ingestion studies show that high doses of zinc borate cause reproductive and developmental effects.

**Teratogenicity**  
(risk of fetus malformation)

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

*Section continued on the next page*

**834FX- B****(PART B)****STOT-single exposure**

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

**STOT-repeated exposure**

Long term or repeated exposure to "amines, coco alkyl" are believed to lead to liver damage and immune system deficiencies.

**Aspiration hazard**

Based on available data, the classification criteria are not met. Contains <10% category 1 components, and the kinematic viscosity is >20.5 mm<sup>2</sup>/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 coco alkyl amines is classified as a chronic category 1 environmental toxicant with an M-factor of 10.

The phenol, styrenated compound is classified as chronic category 2 environmental toxicants.

The trimethylhexamethylenediamine and 2,4,6-tris(dimethylaminomethyl)phenol compounds are classified as chronic category 3 environmental toxicants.

The zinc borate is classified as a chronic category 1 environmental toxicant with a M-Factor of 1 (with minimal LC50 96 h of 2.4 mg/L for *Oncorhynchus mykiss* (rainbow trout); LC50 48 h of 76 mg/L *Daphnia magna* (water flea); and transformation/dissolution endpoint for zinc borate powder that release of 0.452 mg/L of zinc ion, which is higher than zinc's NOEC limit).

Based on available data, carbon black, aluminum trihydrate, aluminum oxide, polyoxypropylenediamine, ammonium polyphosphate, 1-decene, homopolymer, hydrogenated, and polyphosphoric acids are not classified as environmental hazards according to GHS criteria.

**Acute Ecotoxicity**

Category 1

Very toxic to aquatic life

*Section continued on the next page*

**834FX- B****(PART B)****Chronic Ecotoxicity**

Category 1

Very toxic to aquatic life with long lasting effects

Avoid release to the environment. Collect spillage.

**Biodegradability**

Not readily biodegradable

**Bioaccumulation**

Not available

**Other Effects**

Not available

**Section 13: Disposal Information**

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 834FX-450ML, 834FX-1.7L kits***Limited Quantity**

Note: The 834FX-450ML and 834FX-1.7L kits are composed of separate containers which meet this inner packaging limit.



Sizes greater than 1 L (Cargo only)

*Part B of 834FX-7.4L kit***UN number:** UN2735

**Shipping Name:** AMINES, LIQUID, CORROSIVE, N.O.S. \*  
(trimethylhexamethylenediamines, polyoxypropylene diamine, amines coco alkyl)

**Class:** 8**Packing Group:** II**Marine Pollutant:** Yes*Section continued on the next page*



## 834FX- B

## (PART B)

## Air

## Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 0.5 L and under

Part B of 834FX-450ML kit

**Limited Quantity**

Sizes greater than 0.5 L  
up to 1 L (Passenger), 5 L (Cargo)

Part B of 834FX-1.7L kit

**UN number:** UN2735

**Shipping Name:** AMINES,  
LIQUID, CORROSIVE, N.O.S. \*  
(trimethylhexamethylenediamines,  
polyoxypropylene diamine, amines  
coco alkyl)

**Class:** 8

**Packing Group:** II

**Marine Pollutant:** Yes


## Sea

## Refer to IMDG regulations.

Sizes 1 L and under

Part B of 834FX-450ML, 834FX-1.7L  
kits

**Limited Quantity**

Note: The 834FX-  
450ML and 834FX-  
1.7L kits are  
composed of  
separate containers  
which meet this  
inner packaging  
limit.


Sizes greater than 1 L

Part B of 834FX-7.4L kit

**UN number:** UN2735

**Shipping Name:** AMINES,  
LIQUID, CORROSIVE, N.O.S. \*  
(trimethylhexamethylenediamines,  
polyoxypropylene diamine, amines  
coco alkyl)

**Class:** 8

**Packing Group:** II

**Marine Pollutant:** Yes


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

**834FX- B****(PART B)****Section 15: Regulatory Information****Canada****Domestic Substance List (DSL)/Non-Domestic Substance Lists (NDSL)**

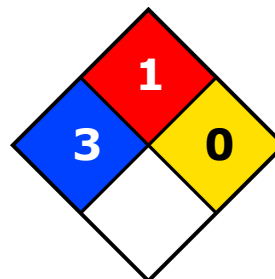
All hazardous ingredients are listed on the DSL/NDSL.

**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.

**USA****Other Classifications****HMIS<sup>®</sup> RATING**

<b>HEALTH:</b>	<b>* 3</b>
<b>FLAMMABILITY:</b>	<b>1</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

**NFPA<sup>®</sup> 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 not contain substances that are listed as hazardous air pollutants.

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

This product does not contain zinc borate (CAS# 138265-88-0), which have a 1 000 lb reporting quantity requirements in 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.

**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.

**834FX- B****(PART B)****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**

<b>SDS Prepared by</b>	MG Chemicals' Regulatory Department
<b>Date of Revision</b>	20 April 2022
<b>Supersedes</b>	02 March 2020
<b>Reason for Changes:</b>	Company address change

**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®)

*Section continued on the next page*

**834FX- B****(PART B)****Abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
EC50	Half maximal effective concentration
EL50	Half maximal effective loading
IARC	International Agency for Research on Cancer
NOELR	No observable effect loading ratio
NTP	National Toxicology Program
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
SDS	Safety Data Sheet
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](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

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

**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.