



## SAFETY DATA SHEET

### H.B. Fuller® EY-3804-B

Version 1.5

Revision Date 10/14/2020

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : H.B. Fuller® EY-3804-B  
Product code : 10000002562

##### Manufacturer or supplier's details

Company : H.B. Fuller Company

Medical Emergency Phone Number (24 Hours): 1-888-853-1758

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

##### Recommended use of the chemical and restrictions on use

Recommended use : Epoxy curing agent

Restrictions on use : For industrial use only.

#### SECTION 2. HAZARDS IDENTIFICATION

##### Emergency Overview

Appearance	liquid
Color	black
Odor	amine-like

##### GHS Classification

Skin corrosion : Category 1B  
Serious eye damage : Category 1  
Skin sensitization : Category 1

##### GHS label elements

Hazard pictograms :



Signal Word : Danger

##### Hazard Statements:

H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.

##### Precautionary Statements:

**Prevention:** P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly

## SAFETY DATA SHEET

## H.B. Fuller® EY-3804-B

Version 1.5

Revision Date 10/14/2020

after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:** P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER. P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P363 Wash contaminated clothing before reuse.

**Storage:** P405 Store locked up.

**Disposal:** P501 Dispose of contents/ container to an approved waste disposal plant.

**Potential Health Effects****Carcinogenicity:****IARC**

Group 2B: Possibly carcinogenic to humans During normal handling of the product, this substance is encapsulated within the product and will not present a cancer exposure risk.

Carbon black

1333-86-4

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous ingredients**

Chemical name	CAS-No.	Concentration [%]
Polyamide resin	68082-29-1	50 - 70
triethylenetetramine	112-24-3	10 - 20
benzyl alcohol	100-51-6	10 - 20
2,2'-iminodi(ethylamine)	111-40-0	5 - 10
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	5 - 10
Modified cycloaliphatic amine	68609-08-5	5 - 10
Carbon black	1333-86-4	0.1 - 1

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

General advice : Show this material safety data sheet to the doctor in attendance.

**SAFETY DATA SHEET****H.B. Fuller® EY-3804-B**

Version 1.5

Revision Date 10/14/2020

- 
- |                         |   |
|-------------------------|---|
| If inhaled              | : Move to fresh air.<br>If not breathing, give artificial respiration.<br>Keep patient warm and at rest.<br>Consult a physician after significant exposure.   |
| In case of skin contact | : Take off all contaminated clothing immediately.<br>Wash off immediately with soap and plenty of water.<br>Call a physician if irritation develops or persists.<br>Wash contaminated clothing before re-use. |
| In case of eye contact  | : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.<br>Protect unharmed eye.   |
| If swallowed            | : If swallowed, call a poison control center or doctor immediately.<br>Do NOT induce vomiting.<br>If victim is fully conscious, give a cupful of water.<br>If possible drink milk afterwards.                 |
- 

**SECTION 5. FIRE-FIGHTING MEASURES**

- |  |   |
|--|---|
| Suitable extinguishing media                   | : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  |
| Specific extinguishing methods                 | :   |
| Further information                            | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.           |
| Special protective equipment for fire-fighters | : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear. |
- 

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- |   |  |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Refer to protective measures listed in sections 7 and 8.   |
| Environmental precautions   | : Prevent product from entering drains.<br>Do not flush into surface water or sanitary sewer system. |
| Methods and materials for containment and cleaning up               | : Soak up with inert absorbent material.<br>Shovel into suitable container for disposal.             |
-

**SAFETY DATA SHEET**
**H.B. Fuller® EY-3804-B**

Version 1.5

Revision Date 10/14/2020

**SECTION 7. HANDLING AND STORAGE**

- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Wear personal protective equipment.  
Do not get on skin or clothing.  
Use only in an area equipped with a safety shower.
- Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-ventilated place.
- Materials to avoid : No special restrictions on storage with other products.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2,2'-iminodi(ethylamine)	111-40-0	TWA	1 ppm	ACGIH
		TWA	1 ppm 4 mg/m <sup>3</sup>	OSHA P0
		PEL	1 ppm 4 mg/m <sup>3</sup>	CAL PEL
Carbon black	1333-86-4	TWA	3.5 mg/m <sup>3</sup>	ACGIH
		TWA	3.5 mg/m <sup>3</sup>	OSHA Z-1
		TWA	3.5 mg/m <sup>3</sup>	OSHA P0
		TWA (Inhalable particulate matter)	3 mg/m <sup>3</sup>	ACGIH
		PEL	3.5 mg/m <sup>3</sup>	CAL PEL

**Personal protective equipment**

- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
- Filter type : Combined particulates and organic vapor type
- Hand protection  
Material : butyl-rubber
- Eye protection : Safety goggles

**SAFETY DATA SHEET****H.B. Fuller® EY-3804-B**

Version 1.5

Revision Date 10/14/2020

---

	Face-shield Ensure that eyewash stations and safety showers are close to the workstation location.
Skin and body protection	: Long sleeved clothing Chemical resistant apron
Protective measures	: Avoid contact with skin.
Hygiene measures	: Avoid contact with skin, eyes and clothing.

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Color	: black
Odor	: amine-like
Odor Threshold	: No data available
Melting point/freezing point	: is not determined
Boiling point/boiling range	: is not determined
Flash point	: Not applicable
Evaporation rate	: is not determined
Flammability (solid, gas)	: Not classified as a flammability hazard
Upper explosion limit	: Upper flammability limit is not determined
Lower explosion limit	: Lower flammability limit is not determined
Density	: 8.070 - 8.270 lb/gal
Solubility(ies)	
Water solubility	: is not determined
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: is not determined
Viscosity	
Viscosity, dynamic	: is not determined
Viscosity, kinematic	: is not determined
Solid Content, % by weight:	: 100
VOC, % by weight	: 8.7

---

**SECTION 10. STABILITY AND REACTIVITY**

Chemical stability	: The product is chemically stable.
Hazardous decomposition	: Stable under normal conditions.

---

## SAFETY DATA SHEET

## H.B. Fuller® EY-3804-B

Version 1.5

Revision Date 10/14/2020

products

## SECTION 11. TOXICOLOGICAL INFORMATION

**Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate : 3,289 mg/kg  
Method: Calculation methodAcute dermal toxicity : Acute toxicity estimate : 4,074 mg/kg  
Method: Calculation method**Components:****triethylenetetramine:**

Acute oral toxicity : LD50 Oral Rat: 2,500 mg/kg

**benzyl alcohol:**

Acute oral toxicity : LD50 Oral Rat: 1,230 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: 2,000 mg/kg

**2,2'-iminodi(ethylamine):**

Acute oral toxicity : LD50 Oral Rat: 819 mg/kg

**3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

Acute oral toxicity : LD50 Oral Rat: 1,030 mg/kg

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

## SAFETY DATA SHEET

## H.B. Fuller® EY-3804-B

Version 1.5

Revision Date 10/14/2020

**STOT-single exposure**

No data available

**STOT-repeated exposure**

No data available

**Aspiration toxicity**

No data available

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****triethylenetetramine :**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 31.1 mg/l  
Exposure time: 48 h  
Test Method: static test

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 2.5 mg/l  
Exposure time: 72 h  
Test Type: flow-through test

**benzyl alcohol :**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 10 mg/l  
Exposure time: 96 h  
Test Method: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 23 mg/l  
Exposure time: 48 h  
Test Method: static test

Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 35 mg/l  
Exposure time: 3 h  
Test Type: flow-through test

**2,2'-iminodi(ethylamine) :**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 16 mg/l  
Exposure time: 48 h  
Test Method: static test

**3-aminomethyl-3,5,5-trimethylcyclohexylamine :**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 14.6 - 21.5 mg/l  
Exposure time: 48 h  
Test Method: semi-static test

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 37 mg/l

**SAFETY DATA SHEET****H.B. Fuller® EY-3804-B**

Version 1.5

Revision Date 10/14/2020

Exposure time: 72 h  
Test Type: flow-through test**Persistence and degradability**

No data available

**Bioaccumulative potential****Mobility in soil**

No data available

**Other adverse effects**

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended, as industry best practice. Consult state, local or provincial authorities for more restrictive requirements.

**SECTION 14. TRANSPORT INFORMATION****Special precautions for user**

Not applicable

**Domestic regulation****49 CFR**

UN/ID/NA number : 2735  
Proper shipping name : Amines, liquid, corrosive, n.o.s.  
(ALIPHATIC AMINE)  
Class : 8  
Packing group : III  
Labels : 8  
ERG Code : 153  
Marine pollutant : no

**International Regulations****IATA-DGR**



**SAFETY DATA SHEET****H.B. Fuller® EY-3804-B**

Version 1.5

Revision Date 10/14/2020

UN/ID No. : 2735  
Proper shipping name : Amines, liquid, corrosive, n.o.s.  
(ALIPHATIC AMINE)  
Class : 8  
Packing group : III  
Labels : 8  
Packing instruction (cargo aircraft) : 856  
Packing instruction (passenger aircraft) : 852

**IMDG-Code**

UN number : 2735  
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.  
Class : 8  
Packing group : III  
Labels : 8  
EmS Code : F-A, S-B  
Marine pollutant : no

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**SECTION 15. REGULATORY INFORMATION**

**SARA 311/312 Hazards** : Skin corrosion or irritation  
Serious eye damage or eye irritation  
Respiratory or skin sensitization  
Carcinogenicity

**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

**US State Regulations**

**SAFETY DATA SHEET**
**H.B. Fuller® EY-3804-B**

Version 1.5

Revision Date 10/14/2020

**California Prop 65**

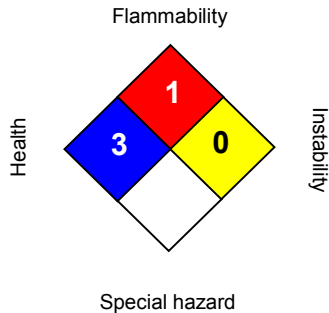
Please contact Supplier for more information.

**The ingredients of this product are reported in the following inventories:**

<b>TSCA</b>	All substances listed as active on the TSCA inventory
<b>DSL</b>	All components of this product are on the Canadian DSL
<b>AICS</b>	On the inventory, or in compliance with the inventory
<b>ENCS</b>	On the inventory, or in compliance with the inventory
<b>KECI</b>	On the inventory, or in compliance with the inventory
<b>PICCS</b>	On the inventory, or in compliance with the inventory
<b>IECSC</b>	On the inventory, or in compliance with the inventory
<b>Inventories Legend</b>	TSCA (USA), DSL (Canada), REACH(Europe), AICS (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

**SECTION 16. OTHER INFORMATION**

Prepared by: Global Regulatory Department - phone: 1-651-236-5842 - email: msds.request@hbfuller.com

**Further information**
**NFPA:**

**HMIS III:**

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

 0 = not significant, 1 = Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to the H.B. Fuller Company from its suppliers, and because the H.B. Fuller Company has no control over the conditions of handling and use, the H.B. Fuller Company makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and the H.B. Fuller Company assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Company products to comply with all applicable federal, state and local laws and regulations.


 1-800-375-0605  
 Option 8 for 24/7 Service

 6550 Oley Speaks Way  
 Canal Winchester, OH 43110

[www.RudolphBros.Com](http://www.RudolphBros.Com)  
[RBCsupport@RudBro.Com](mailto:RBCsupport@RudBro.Com)