

**SAFETY DATA SHEET****H.B. Fuller® FH-3503-B**

Version 1.1

Revision Date 02/14/2018

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : H.B. Fuller® FH-3503-B  
Product code : 10000002642

**Manufacturer or supplier's details**

Company : H.B. Fuller Company  
Address : 1200 Willow Lake Boulevard  
Vadnais Heights, MN 55110  
Telephone : 1-888-423-8553

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 : Polyol  
Restrictions on use : For industrial use only.


**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

Appearance	liquid
Color	amber
Odor	characteristic

**GHS Classification**

Acute toxicity (Oral) : Category 4  
Eye irritation : Category 2A  
Carcinogenicity : Category 2  
Reproductive toxicity : Category 1B  
Specific target organ systemic toxicity - repeated exposure : Category 2

**GHS label elements**

Hazard pictograms :  

Signal Word : Danger

**Hazard Statements:**

H302 Harmful if swallowed. H319 Causes serious eye irritation. H351 Suspected of causing cancer. H360 May damage fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.

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**Precautionary Statements:**

**Prevention:** P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:** P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Storage:** P405 Store locked up.

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

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

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**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 [%]
4,4'-methylenebis(2-ethylaniline)	19900-65-3	30 - 50
dibutyl phthalate	84-74-2	30 - 50
diethylmethylbenzenediamine	68479-98-1	10 - 20
1-methyl-2-pyrrolidone	872-50-4	0.1 - 1

**SECTION 4. FIRST AID MEASURES**

- General advice : Show this material safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and water.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this SDS.

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**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Methods and materials for containment and cleaning up : Scrape up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Shovel into suitable container for disposal.

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : No special precautions are needed in handling this material.

Conditions for safe storage : Keep in a dry, cool place.

Materials to avoid : No special restrictions on storage with other products.

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

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
dibutyl phthalate	84-74-2	TWA	5 mg/m <sup>3</sup>	ACGIH
		TWA	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA	5 mg/m <sup>3</sup>	OSHA P0
		PEL	5 mg/m <sup>3</sup>	CAL PEL
1-methyl-2-pyrrolidone	872-50-4	PEL	1 ppm 4 mg/m <sup>3</sup>	CAL PEL

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally

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required.  
In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection  
Material : Nitrile rubber

Eye protection : Safety glasses

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid  
Color : amber  
Odor : characteristic  
Odor Threshold : No data available  
Melting point/freezing point : not determined  
Initial boiling point and boiling range : not determined  
Flash point : 149 °C  
Evaporation rate : not determined  
Flammability (solid, gas) : Not classified as a flammability hazard

Upper explosion limit : Upper flammability limit  
Not applicable

Lower explosion limit : Lower flammability limit  
Not applicable

Density : 8.39 - 9.19 lb/gal  
Solubility(ies)  
Water solubility : dispersible  
Partition coefficient: n-octanol/water : No data available  
Autoignition temperature : not determined

Viscosity  
Viscosity, dynamic : not determined  
Viscosity, kinematic : not determined  
Solid Content, % by weight: : 99.8

**SECTION 10. STABILITY AND REACTIVITY**

Chemical stability : The product is chemically stable.

Possibility of hazardous reactions : Hazardous polymerization does not occur.  
Hazardous decomposition products : Stable under normal conditions.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate : 459.4 mg/kg  
Method: Calculation methodAcute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method**Ingredients:****1-methyl-2-pyrrolidone:**

Acute oral toxicity : LD50 Oral Rat: 3,598 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

**STOT-single exposure**

No data available

**STOT-repeated exposure**

No data available

**Aspiration toxicity**No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

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**Ingredients:****dibutyl phthalate :**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.31 - 5.45 mg/l  
Exposure time: 96 h  
Test Method: static test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.99 mg/l  
Exposure time: 48 h  
Test Method: static test
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 0.4 mg/l  
Exposure time: 96 h  
Test Type: static 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. Solidify and dispose of in an approved landfill. 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 : 3082  
Proper shipping name : Environmentally hazardous substances, liquid, n.o.s. (DIBUTYL PHTHALATE)  
Class : 9  
Packing group : III

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Labels : 9  
ERG Code : 171  
Marine pollutant : no

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

UN/ID No. : 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(DIBUTYL PHTHALATE)  
Class : 9  
Packing group : III  
Labels : 9  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964

**IMDG-Code**

UN number : 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
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** : Acute toxicity (any route of exposure)  
Serious eye damage or eye irritation  
Carcinogenicity  
Reproductive toxicity  
Specific target organ toxicity (single or repeated exposure)

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

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

dibutyl phthalate

84-74-2

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**Clean Air Act**

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

dibutyl phthalate 84-74-2

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

**US State Regulations****California Prop 65**

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

1-methyl-2-pyrrolidone 872-50-4

dibutyl phthalate 84-74-2

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

<b>TSCA</b>	On TSCA Inventory
<b>DSL</b>	All components of this product are on the Canadian DSL
<b>REACH</b>	Not in compliance with the inventory
<b>AICS</b>	On the inventory, or in compliance with the inventory
<b>NZIoC</b>	Not in compliance with the inventory
<b>ENCS</b>	Not 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>	Not in compliance with the inventory
<b>TWINV</b>	Not in compliance with the inventory

**Inventories Legend** 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**

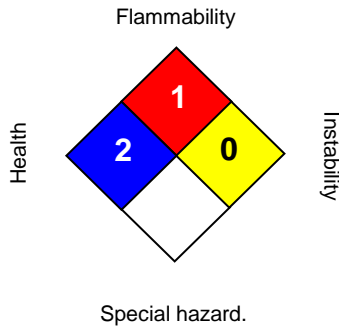
Prepared by: Global Regulatory Department - phone: 1-651-236-5842 - email: msds.request@hbfuller.com



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

**HMIS III:**

<b>HEALTH</b>	<b>2*</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

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