

**SAFETY DATA SHEET****H.B. Fuller® FH-3530-A**

Version 1.4

Revision Date 10/19/2017

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : H.B. Fuller® FH-3530-A  
Product code : 10000002978

**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 : Isocyanate based product  
Restrictions on use : For industrial use only.


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

|            |           |
|------------|-----------|
| Appearance | liquid    |
| Color      | colorless |
| Odor       | sweet     |

**GHS Classification**

Skin irritation : Category 2  
Eye irritation : Category 2A  
Respiratory sensitization : Category 1  
Skin sensitization : Category 1

**GHS label elements**

Hazard pictograms : 

Signal Word : Danger

**Hazard Statements:**

H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Precautionary Statements:**

**Prevention:** P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing must not be allowed out of the workplace. P280

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Wear protective gloves/ eye protection/ face protection. P285 In case of inadequate ventilation wear respiratory protection.

**Response:** P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor. P362 Take off contaminated clothing and wash before reuse.

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

**Potential Health Effects**

Aggravated Medical Condition : None known.  
 Symptoms of Overexposure : Breathing difficulties

**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 [%] |
|--|--------------|-------------------|
| Hydrogenated MDI-based isocyanate prepolymer | Not Assigned | 70 - 90           |
| 4,4'-methylenedicyclohexyl diisocyanate      | 5124-30-1    | 10 - 20           |

**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.  
 Get medical attention if irritation develops and persists.  
 Take off contaminated clothing and shoes immediately.  
 Wash contaminated clothing before re-use.

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- 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. If conscious, give 2 glasses of water. Get immediate medical attention.
- Most important symptoms and effects, both acute and delayed : Breathing difficulties

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during fire fighting : Burning produces irritant fumes.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

**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 : Soak up with inert absorbent material. Shovel into suitable container for disposal. Neutralize with the following product(s): Ammonia

**SECTION 7. HANDLING AND STORAGE**

- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Protect from moisture. Avoid inhalation, ingestion and contact with skin and eyes.
- 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 | Basis |
|-------------|---------|-------------------------------|----------------------------------|-------|
|             |         |                               |                                  |       |

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|   |           |     | concentration            |         |
|---|-----------|-----|--------------------------|---------|
| 4,4'-methylenedicyclohexyl diisocyanate | 5124-30-1 | TWA | 0.005 ppm                | ACGIH   |
|   |           | C   | 0.01 ppm<br>0.11 mg/m3   | OSHA P0 |
|   |           | PEL | 0.005 ppm<br>0.054 mg/m3 | CAL PEL |

**Engineering measures** : Use local exhaust ventilation or other engineering controls to minimize exposures.

**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.

Hand protection  
Material : Nitrile rubber

Eye protection : Safety glasses with side-shields

Hygiene measures : Avoid contact with skin, eyes and clothing.  
Provide adequate ventilation.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid  
 Color : colorless  
 Odor : sweet  
 Odor Threshold : No data available  
 No data available

Melting point/freezing point : not determined  
 not determined

Initial boiling point and boiling range : not determined  
 not determined

Flash point : 149 °C  
 Evaporation rate : not determined  
 not determined

Flammability (solid, gas) : Not classified as a flammability hazard

Not classified as a flammability hazard

Upper explosion limit : Upper flammability limit



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|  |   |  |
|--|---|--|
| Lower explosion limit                  | : | not determined<br>Lower flammability limit<br>not determined |
| Density                                | : | 8.910 lb/gal   |
| Solubility(ies)                        | : |  |
| Water solubility                       | : | not determined<br>not determined                             |
| Partition coefficient: n-octanol/water | : | No data available  |
| Autoignition temperature               | : | No data available<br>not determined<br>not determined        |
| Viscosity                              | : |  |
| Viscosity, dynamic                     | : | not determined   |
| Viscosity, kinematic                   | : | not determined<br>not determined                             |

**SECTION 10. STABILITY AND REACTIVITY**

|                                    |   |   |
|------------------------------------|---|---|
| Reactivity                         | : | Container can be pressurized by carbon dioxide due to reaction with humid air and/or water. |
| Chemical stability                 | : | The product is chemically stable.   |
| Possibility of hazardous reactions | : | Hazardous polymerization does not occur.  |
| Incompatible materials             | : | Amines<br>Strong acids and strong bases   |
| Hazardous decomposition products   | : | Stable under normal conditions.   |

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

|                           |   |  |
|---------------------------|---|--|
| Acute oral toxicity       | : | Acute toxicity estimate : > 5,000 mg/kg<br>Method: Calculation method  |
| Acute inhalation toxicity | : | Acute toxicity estimate : 21.93 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapor<br>Method: Calculation method |

**Ingredients:**

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Acute oral toxicity : LD50 Oral Rat: 1,065 mg/kg

Acute inhalation toxicity : LC50 Rat: 0.434 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist**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****Ingredients:****5124-30-1 :**Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 1.2 mg/l  
Exposure time: 96 h  
Test Method: static test**Persistence and degradability**

No data available

**Bioaccumulative potential**

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**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**

Remarks : 49CFR: Not dangerous goods in non-bulk packaging.

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

UN/ID/NA number : 3082  
Proper shipping name : Other regulated substances, liquid, n.o.s.  
(4,4'-DICYCLOHEXANEDIISOCYANATE)  
Class : 9  
Packing group : III  
Labels : 9  
ERG Code : 171  
Marine pollutant : no

**International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

UN/ID No. : 3334  
Proper shipping name : Aviation regulated liquid, n.o.s.  
(4,4'-DICYCLOHEXANEDIISOCYANATE)  
Class : 9  
Packing group : III  
Labels : 9  
Packing instruction (cargo) : 964

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aircraft)  
Packing instruction : 964  
(passenger aircraft)

**IMDG-Code**

Not regulated as a dangerous good

**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 Health Hazard**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

4,4'-methylenedicyclohexyl diisocyanate 5124-30-1

**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****California Prop 65** This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.**The ingredients of this product are reported in the following inventories:**

**TSCA** On TSCA Inventory  
**DSL** This product contains one or several components that are not on the Canadian DSL nor NDSL.  
**REACH** Not in compliance with the inventory  
**AICS** Not in compliance with the inventory  
**NZIoC** Not in compliance with the inventory  
**ENCS** Not in compliance with the inventory  
**KECI** Not in compliance with the inventory  
**PICCS** Not in compliance with the inventory  
**IECSC** Not in compliance with the inventory  
**TWINV** 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)



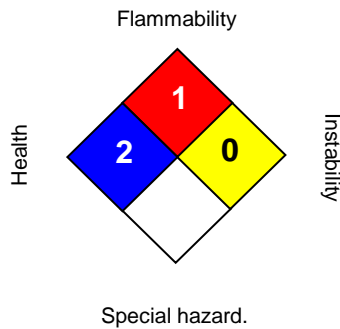
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**SECTION 16. OTHER INFORMATION**

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

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

**HMIS III:**

|                        |           |
|------------------------|-----------|
| <b>HEALTH</b>          | <b>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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