

## 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 Symptoms of Overexposure	<ul><li>None known.</li><li>Breathing difficulties</li></ul>
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.
lf 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.	3.

## 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	<ul> <li>Soak up with inert absorbent material.</li> <li>Shovel into suitable container for disposal.</li> <li>Neutralize with the following product(s):</li> <li>Ammonia</li> </ul>

## 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	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	



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

Engineering measures	: Use local exhaust ventilation or other engineering controls to minimize exposures.
Personal protective equipm	ent
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 Color Odor Odor Threshold	-	liquid colorless sweet 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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	not determined		
Lower explosion limit	: Lower flammability limit not determined		
Density Solubility(ies)	: 8.910 lb/gal		
Water solubility	: not determined		
	not determined		
Partition coefficient: n- octanol/water	: No data available		
	No data available		
Autoignition temperature	: not determined		
	not determined		
Viscosity Viscosity, dynamic	: not determined		
Viscosity, kinematic	: not determined 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 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 Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate : 21.93 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method

## Ingredients:



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<b>5124-30-1:</b> 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 irritat	tion		
No data available			
Respiratory or skin sensitizati	on		
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			

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**

practice. Consult state, local or provincial authorities for more restrictive requirements.	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.
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### **SECTION 14. TRANSPORT INFORMATION**

### Special precautions for user

: 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)
		(4,4-DICTCLOREXAMEDIISOCTANATE)
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	: 111
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 rep of SARA Title III, Section 302.	orting requirements
SARA 313	The following components are subject to reporting by SARA Title III, Section 313:	levels established
	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 LegendTSCA (USA), DSL (Canada), REACH(Europe), AICS (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)		



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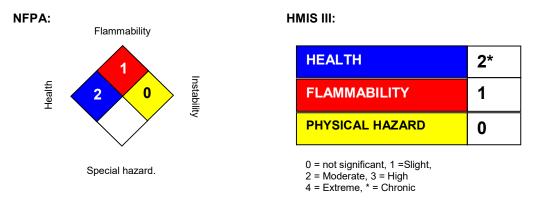
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### **SECTION 16. OTHER INFORMATION**

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

### **Further information**



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