

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

: 100000002978

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 Eye irritation Respiratory sensitization Category 2 Category 2A Category 1

Category 1

Skin sensitization

GHS label elements

Hazard pictograms

Signal Word

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

: None known.

Condition

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

: Breathing difficulties

and effects, both acute and delayed

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 : Refer to protective measures listed in sections 7 and 8.

emergency procedures 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	Control parameters /	Basis
		exposure)	Permissible	

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			concentration	
4,4'-methylenedicyclohexyl dilsocyanate	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 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 : not determined

range

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

: 8.910 lb/gal

Solubility(ies) 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 Viscosity, kinematic

: not determined : 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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5124-30-1:

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

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 : Iil
Labels : 9
Packing instruction (cargo : 964



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aircraft)

Packing instruction (passenger aircraft)

: 964

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

5124-30-1

diisocyanate

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

AICS

Not in compliance with the inventory

NZIOC

Not in compliance with the inventory

NOT INCOME NOT INCOMPLIANCE

NOT INCOMPLIA

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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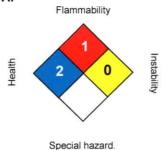
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SECTION 16. OTHER INFORMATION

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

Further information

NFPA:



HMIS III:

HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic

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