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H.B. Fuller

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SAFETY DATA SHEET

H.B. Fuller® FH-3503-A

Version 1.4	Revision Date 10/13/2016	
SECTION 1. PRODUCT A	ND COMPANY IDENTIFICATION	
Product name Product code	: H.B. Fuller® FH-3503-A : 10000002477	
Manufacturer or sup	pplier'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 eye protection/ face protection. P280 Wear protective gloves. 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	None known.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 ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
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.

In case of eye contact





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



: In the case of contact with eyes, rinse immediately with plenty



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	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 apparat Use personal protective equipment.	tus.

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

	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
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4,4'-methylenedicyclohexyl diisocyanate	5124-30-1	TWA	0.005 ppm	ACGIH
		С	0.01 ppm 0.11 mg/m3	OSHA P0

Engineering measures	: Use local exhaust ventilation or other engineering controls to minimize exposures.
Personal protective equipme	nt
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
Melting point/freezing point	:	not determined
Initial boiling point and boiling range	:	not determined
Flash point Evaporation rate Flammability (solid, gas)	:	149 °C not determined Not classified as a flammability hazard
Upper explosion limit	:	upper flammability limit not determined
Lower explosion limit	:	lower flammability limit not determined
Density Solubility(ies)	:	8.910 lb/gal
Water solubility	:	not determined
Partition coefficient: n- octanol/water	:	No data available
Autoignition temperature	:	not determined
Viscosity		

Viscosity





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Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined
Solid Content, % by weight:	:	99.5

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:	
4,4'-methylenedicyclohexy Acute oral toxicity	/l diisocyanate: : LD50 Oral Rat: 1,065 mg/kg

Acute inhalation toxicity	: LC50 Rat: 0.434 mg/l Exposure time: 4 h Test atmosphere: dust/mist
	l est atmosphere: dust/mist

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available





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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: 4,4'-methylenedicyclohexyl diisocyanate :

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

Mobility in soil

No data available

Other adverse effects

No data available

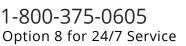
SECTION 13. DISPOSAL CONSIDERATIONS

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.











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SECTION 14. TRANSPORT INFORMATION

Special precautions for user

Not applicable

Domestic regulation

49 CFR UN/ID/NA number Proper shipping name	 3082 Other regulated substances, liquid, n.o.s. (4,4'-DICYCLOHEXANEDIISOCYANATE)
Class	: 9
Packing group	: 111
Labels	: 9
ERG Code	: 171
Marine pollutant	: no

International Regulation

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 aircraft)	: 964
Packing instruction (passenger aircraft)	: 964

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

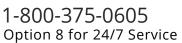
Not applicable for product as supplied.

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.











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SARA 313	: The following components are subject to a by SARA Title III, Section 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			
Air Act Section 112 (This product does no	et contain any hazardous air pollutants (HAP), as d 40 CFR 61). It contain any chemicals listed under the U.S. Clea Prevention (40 CFR 68.130, Subpart F).	•	
US State Regulation	IS		
California Prop 65	This product does not contain any chemic California to cause cancer, birth, or any ot		
The ingredients of t	his product are reported in the following inven	tories:	
		On TSCA Inventory This product contains one or several components that are not on the Canadian DSL nor NDSL	
TSCA DSL		components that are not	
TSCA DSL REACH	This product contains one or several on the Canadian DSL nor NDSL. Not in compliance with the inventory	components that are not	
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SECTION 16. OTHER INFORMATION

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







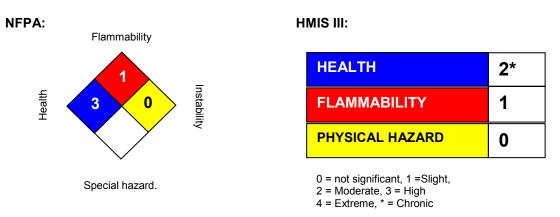


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Further information



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.







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