

H.B. Fuller® FH-3503-A

Version 1.6

Revision Date 09/09/2024

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	H.B. Fuller® FH-3503-A
Product code	:	10000002477

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 Skin sensitization	:	Category 2 Category 2A Category 1 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.



H.B. Fuller® FH-3503-A

Version 1.6

Revision Date 09/09/2024

Precautionary Statements:

Prevention: P261 Avoid breathing mist or vapors. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing must not be allowed out of the workplace. P280 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	: 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 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
Actual concentration is withhold as a trade secret	•	

Actual concentration is withheld as a trade secret

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.



H.B. Fuller® FH-3503-A		
Version 1.6	Revision Date 09/09/2024	
In case of skin contact	: 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	: 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.



H.B. Fuller® FH-3503-A

Version 1.6

Revision Date 09/09/2024

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
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 equipment				
Respiratory protection	measures assessmer	(exhaust/ ventilat	Inless adequate risk r tion) are provided or e that exposures are wi idelines.	exposure

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
рН	: Not applicable
Melting point/freezing point	: is not determined
Initial boiling point and boiling range	: is not determined
Flash point	: Not applicable
Evaporation rate	149 °C : is not determined



H.B. Fuller® FH-3503-A

Version 1.6	Revision Date 09/09/2024
Flammability (solid, gas)	: Not classified as a flammability hazard
Upper explosion limit	: Upper flammability limit is not determined
Lower explosion limit	: Lower flammability limit is not determined
Vapor pressure	: is not determined
Density Solubility(ies) Water solubility	: 8.910 lb/gal : is not determined
Partition coefficient: n- octanol/water	: no data available
Autoignition temperature	: is not determined
Viscosity Viscosity, dynamic Viscosity, kinematic Solid Content, % by weight: VOC, % by weight	 is not determined is not determined 99.5 < 0.03

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	



H.B. Fuller® FH-3503-A

Version 1.6

Revision Date 09/09/2024

Test atmosphere: vapor Method: Calculation method

Components:			
4,4'-methylenedicyclohexyl d			
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		
Acute dermal toxicity	: LD50 Dermal Rabbit: > 10,000 mg/kg		
Skin corrosion/irritation			
No data available			
Serious eye damage/eye irritation	1		
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

Components:



H.B. Fuller® FH-3503-A

Version 1.6

Revision Date 09/09/2024

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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

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.

Domestic regulation

49 CFR

Not regulated as a dangerous good



H.B. Fuller® FH-3503-A

Version 1.6

Revision Date 09/09/2024

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards	:	Respiratory or skin sensitization Skin corrosion or irritation Serious eye damage or eye irritation	
SARA 302	:	This material does not contain any components with EHS TPQ.	h a section 302
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	Please contact Supplier for more information.	
The ingredients of this produ	ict are reported in the following inventories:	
TCSI	Not in compliance with the inventory	
TSCA	All substances listed as active on the TSCA inventory	
AIIC	Not in compliance with the inventory	
DSL	This product contains the following components that are not on	
	the Canadian DSL nor NDSL.	
ENCS	Not in compliance with the inventory	
ISHL	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	
NZIoC	Not in compliance with the inventory	
CHINV	Not in compliance with the inventory	
REACH	Not in compliance with the inventory	
MYINV	Not in compliance with the inventory	
KKDIK	Not in compliance with the inventory	
TECI	Not in compliance with the inventory	
Inventories LegendTSCA (USA), DSL (Canada), REACH(Europe), AIIC (Australia), NZIoC (New		
Zealand), ENCS (Japan), KEC	I (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)	



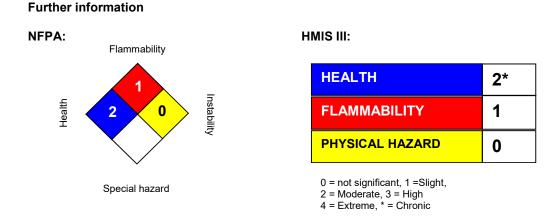
H.B. Fuller® FH-3503-A

Version 1.6

Revision Date 09/09/2024

SECTION 16. OTHER INFORMATION

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



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.