

H.B. Fuller® FH-3140-A

Version 1.1 Revision Date 04/11/2016

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : H.B. Fuller® FH-3140-A

Product code : 10000002636

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 element

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 should 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 victim to fresh air and keep at rest in a position 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 or doctor/ physician. 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.

OSHANo 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 [%]	
Dicyclohexylmethane-4, 4-diisocyanate 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 Methods and materials for : 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	Control parameters /	Basis
		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

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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

Melting point/freezing point : not determined

Initial boiling point and boiling : not determined

range

Flash point : 149 °C

Evaporation rate : not determined

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

Upper explosion limit : upper flammability limit

not determined

Lower explosion limit : lower flammability limit

not determined

Density : 8.50 - 8.70 lb/gal

Solubility(ies)

Water solubility : not determined
Partition coefficient: n- : No data available

octanol/water

Autoignition temperature : not determined



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Viscosity

Viscosity, dynamic : not determined Viscosity, kinematic : not determined

Solid Content, % by weight: : 100

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Container can be pressurized by carbon dioxide due to

reaction with humid air and/or water.

: Hazardous polymerization does not occur.

Chemical stability : The product is chemically stable.

Possibility of hazardous

reactions

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 : 27.16 mg/l

Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Ingredients:

4,4'-methylenedicyclohexyl diisocyanate:

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



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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): 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 : 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 Regulation

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

aircraft)

Packing instruction : 964

(passenger aircraft)

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

Chronic Health Hazard Acute Health Hazard

SARA 302 : 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 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 12 (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 defects, or any other reproductive

harm.

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)

SECTION 16. OTHER INFORMATION

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



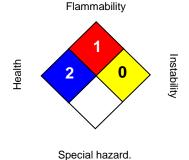
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Further information

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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