



SAFETY DATA SHEET

H.B. Fuller® FH-1271-B

Version 1.2

Revision Date 11/07/2017

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : H.B. Fuller® FH-1271-B
Product code : 100000003142

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 : Solvent based adhesive
Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Color	yellow
Odor	solvent

GHS Classification

Flammable liquids : Category 3
Acute toxicity (Inhalation) : Category 4
Skin irritation : Category 2
Eye irritation : Category 2B
Respiratory sensitization : Category 1
Skin sensitization : Category 1
Carcinogenicity : Category 2
Reproductive toxicity : Category 1B
Specific target organ systemic toxicity - single exposure : Category 3 (Respiratory system)
Specific target organ systemic toxicity - repeated exposure : Category 2 (hearing organs)

GHS label elements

Hazard pictograms :



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Signal Word : Danger

Hazard Statements:

H226 Flammable liquid and vapor. H315 + H320 Causes skin and eye irritation. H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H351 Suspected of causing cancer. H360 May damage fertility or the unborn child. H373 May cause damage to organs (hearing organs) through prolonged or repeated exposure.

Precautionary Statements:

Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P285 In case of inadequate ventilation wear respiratory protection.

Response: P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage: P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects**Carcinogenicity:**

IARC	Group 2B: Possibly carcinogenic to humans	
	ethylbenzene	100-41-4
	4-methyl-m-phenylene diisocyanate	584-84-9
	2-methyl-m-phenylene diisocyanate	91-08-7
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	Reasonably anticipated to be a human carcinogen	
	4-methyl-m-phenylene diisocyanate	584-84-9
	2-methyl-m-phenylene diisocyanate	91-08-7



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration [%]
Aromatic isocyanate	Not Assigned	70 - 90
2-methoxy-1-methylethyl acetate	108-65-6	20 - 30
xylene	1330-20-7	10 - 20
ethylbenzene	100-41-4	1 - 5
4-methyl-m-phenylene diisocyanate	584-84-9	0.1 - 1
2-methyl-m-phenylene diisocyanate	91-08-7	0.1 - 1
2-methoxypropyl acetate	70657-70-4	0.1 - 1

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.
- In case of eye contact : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
- If swallowed : Do NOT induce vomiting.
If victim is fully conscious, give a cupful of water.
Never give anything by mouth to an unconscious person.
Obtain medical attention.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during fire fighting : Cool closed containers exposed to fire with water spray.

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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 : Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent spreading over a wide area (e.g. by containment or oil barriers).

Methods and materials for containment and cleaning up : Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Non-sparking tools should be used.

SECTION 7. HANDLING AND STORAGE

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Avoid inhalation of vapor or mist. Do not use in areas without adequate ventilation. Keep away from fire, sparks and heated surfaces. Keep container closed when not in use. Take precautionary measures against static discharges.

Conditions for safe storage : Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from sources of ignition - No smoking. Solvent vapors are heavier than air and may spread along floors.

Materials to avoid : Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-methoxy-1-methylethyl acetate	108-65-6	PEL	100 ppm 541 mg/m ³	CAL PEL



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		STEL	150 ppm 811 mg/m ³	CAL PEL
xylene	1330-20-7	TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m ³	OSHA P0
		TWA	100 ppm 435 mg/m ³	OSHA P0
		TWA	100 ppm 435 mg/m ³	OSHA Z-1
		STEL	150 ppm 655 mg/m ³	CAL PEL
		C	300 ppm	CAL PEL
		PEL	100 ppm 435 mg/m ³	CAL PEL
ethylbenzene	100-41-4	TWA	20 ppm	ACGIH
		STEL	125 ppm	ACGIH
		TWA	100 ppm 435 mg/m ³	OSHA Z-1
		TWA	100 ppm 435 mg/m ³	OSHA P0
		STEL	125 ppm 545 mg/m ³	OSHA P0
		PEL	5 ppm 22 mg/m ³	CAL PEL
		STEL	30 ppm 130 mg/m ³	CAL PEL
4-methyl-m-phenylene diisocyanate	584-84-9	TWA	0.005 ppm	ACGIH
		STEL	0.02 ppm	ACGIH
		C	0.02 ppm 0.14 mg/m ³	OSHA Z-1
		STEL	0.02 ppm 0.15 mg/m ³	OSHA P0
		TWA	0.005 ppm 0.04 mg/m ³	OSHA P0
2-methyl-m-phenylene diisocyanate	91-08-7	TWA	0.005 ppm	ACGIH
		STEL	0.02 ppm	ACGIH

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.

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Filter type	: Organic vapor Type
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	: yellow
Odor	: solvent
Odor Threshold	: No data available
Melting point/freezing point	: not determined
Boiling point/boiling range	: not determined
Flash point	: 82 °F
Evaporation rate	: not determined
Upper explosion limit	: Upper flammability limit not determined
Lower explosion limit	: Lower flammability limit not determined
Density	: 1.127 g/cm ³
Solubility(ies) Water solubility	: not determined
Partition coefficient: n- octanol/water	: No data available
Autoignition temperature	: not determined
Viscosity Viscosity, kinematic	: not determined

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: The product is chemically stable.
Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Conditions to avoid	: Heat, flames and sparks.
Hazardous decomposition products	: Stable under normal conditions.



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SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation methodAcute inhalation toxicity : Acute toxicity estimate : 18.25 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation methodAcute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method**Ingredients:****1330-20-7:**

Acute oral toxicity : LD50 Oral Rat: 4,300 mg/kg

Acute inhalation toxicity : LC50 Rat: 47,635 mg/l
Exposure time: 4 h
Test atmosphere: vapor**100-41-4:**

Acute oral toxicity : LD50 Oral Rat: 3,500 mg/kg

Acute inhalation toxicity : LC50 Rat: 17.2 mg/l
Exposure time: 4 h
Test atmosphere: vapor**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



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STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration toxicity

No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

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 : This product meets the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. It is ignitable waste class D001. Disposal via incineration is recommended. Consult your state, local, or provincial authorities for more restrictive requirements. The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

SECTION 14. TRANSPORT INFORMATION**Special precautions for user**

Not applicable

Domestic regulation**49 CFR**

UN/ID/NA number : 1133
Proper shipping name : Adhesives
Class : 3



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Packing group : III
Labels : 3
ERG Code : 128
Marine pollutant : no

International Regulations**IATA-DGR**

UN/ID No. : 1133
Proper shipping name : Adhesives
Class : 3
Packing group : III
Labels : 3
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355

IMDG-Code

UN number : 1133
Proper shipping name : ADHESIVES
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-D
Marine pollutant : no

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 : Flammable (gases, aerosols, liquids, or solids)
Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
Respiratory or skin sensitization
Carcinogenicity
Reproductive toxicity
Specific target organ toxicity (single or repeated exposure)

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

xylene

1330-20-7



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ethylbenzene	100-41-4
4-methyl-m-phenylene diisocyanate	584-84-9
2-methyl-m-phenylene diisocyanate	91-08-7

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

xylene	1330-20-7
ethylbenzene	100-41-4

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I

Intermediate or Final VOC's (40 CFR 60.489):

xylene	1330-20-7
ethylbenzene	100-41-4

US State Regulations**California Prop 65**

WARNING! This product contains a chemical known in the State of California to cause cancer.

ethylbenzene	100-41-4
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The ingredients of this product are reported in the following inventories:

TSCA	On TSCA Inventory
DSL	All components of this product are on the Canadian DSL
REACH	Not in compliance with the inventory
AICS	On the inventory, or in compliance with the inventory
NZIoC	Not in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or 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

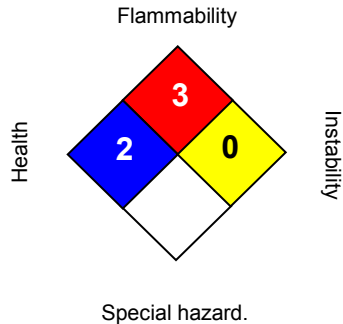
Prepared by: Global Regulatory Department - phone: 1-651-236-5842 - email: msds.request@hbfuller.com



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Further information
NFPA:

HMIS III:

HEALTH	2*
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

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.