



## SAFETY DATA SHEET

### H.B. Fuller® UR-2187-B

Version 1.2

Revision Date 12/11/2015

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : H.B. Fuller® UR-2187-B  
Product code : 10000002969

##### 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	amber
Odor	Neutral

##### GHS Classification

Acute toxicity (Inhalation) : Category 4  
Skin irritation : Category 2  
Eye irritation : Category 2A  
Respiratory sensitization : Category 1  
Skin sensitization : Category 1  
Carcinogenicity : Category 2  
Specific target organ systemic toxicity - single exposure : Category 3 (Respiratory system)  
Specific target organ systemic toxicity - repeated exposure : Category 2

##### GHS Label element

Hazard pictograms :



Signal Word : Danger

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**Hazard Statements:**

H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. 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. H373 May cause damage to 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. 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 should 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:** P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician 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.

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

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

**Potential Health Effects**

Aggravated Medical Condition : None known.  
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 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 [%]
4,4'-methylenediphenyl diisocyanate	101-68-8	50 - 70
Proprietary Isocyanate Prepolymer	0-00-0	30 - 50
triethyl phosphate	78-40-0	1 - 5



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**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 : 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.



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- 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 exposure)	Control parameters / Permissible concentration	Basis
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0.005 ppm	ACGIH
		C	0.02 ppm 0.2 mg/m3	OSHA Z-1
		C	0.02 ppm 0.2 mg/m3	OSHA P0

- 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 : amber  
 Odor : Neutral  
 Odor Threshold : No data available  
 Melting point/freezing point : not determined  
 Initial boiling point and boiling range : not determined  
 Evaporation rate : not determined



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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	: 10.0 - 10.2 lb/gal
Solubility(ies)	
Water solubility	: not determined
Partition coefficient: n- octanol/water	: No data available
Autoignition temperature	: not determined
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.
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 : 2.44 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method

**Ingredients:****4,4'-methylenediphenyl diisocyanate:**

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Acute inhalation toxicity : LC50 : 1.5 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

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**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

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**SECTION 13. DISPOSAL CONSIDERATIONS**

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**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 : Environmentally hazardous substances, liquid, n.o.s.  
(METHYLENE DIISOCYANATE)  
Class : 9  
Packing group : III  
Labels : 9  
ERG Code : 171  
Marine pollutant : no

**International Regulation****IATA-DGR**

UN/ID No. : 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(METHYLENE DIISOCYANATE)  
Class : 9  
Packing group : III  
Labels : 9  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964

**IMDG-Code**

UN number : 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F



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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** : Acute Health Hazard  
Chronic Health Hazard**SARA 302** : 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'-methylenediphenyl diisocyanate 101-68-8

**Clean Air Act**

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

4,4'-methylenediphenyl diisocyanate 101-68-8

**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** On the inventory, or in compliance with the inventory  
**KECI** On the inventory, or in compliance with the inventory  
**PICCS** Not in compliance with the inventory  
**IECSC** On the inventory, or in compliance with the inventory  
**TWINV** On the inventory, or in compliance with the inventory**Inventories Legend** TSCA (USA), DSL (Canada), REACH(Europe), AICS (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)



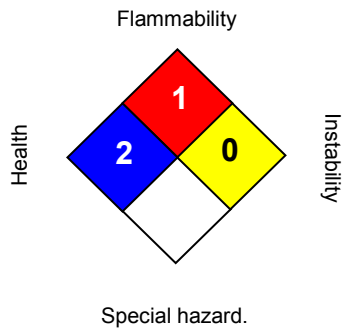
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**SECTION 16. OTHER INFORMATION**

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

**Further information**
**NFPA:**

**HMIS III:**

<b>HEALTH</b>	<b>2*</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

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

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