



SAFETY DATA SHEET

H.B. Fuller® UR-0218-MF

Version 1.3

Revision Date 12/14/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : H.B. Fuller® UR-0218-MF
Product code : 100000002749

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	yellow
Odor	Neutral

GHS Classification

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

Hazard Statements:

SAFETY DATA SHEET**H.B. Fuller® UR-0218-MF**

Version 1.3

Revision Date 12/14/2015

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. 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 [%]
Proprietary MDI-based prepolymer	0-00-0	70 - 90
4,4'-methylenediphenyl diisocyanate	101-68-8	20 - 30
o-(p-isocyanatobenzyl)phenyl isocyanate	5873-54-1	1 - 5

SECTION 4. FIRST AID MEASURES

SAFETY DATA SHEET**H.B. Fuller® UR-0218-MF**

Version 1.3

Revision Date 12/14/2015

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.
Advice on safe handling	: Protect from moisture. Avoid inhalation, ingestion and contact with skin and eyes.

SAFETY DATA SHEET
H.B. Fuller® UR-0218-MF

Version 1.3

Revision Date 12/14/2015

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/m ³	OSHA Z-1
		C	0.02 ppm 0.2 mg/m ³	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 : yellow
 Odor : Neutral
 Odor Threshold : No data available
 pH : Not applicable
 Melting point/freezing point : not determined
 Initial boiling point and boiling range : not determined
 Flash point : Not applicable
 Evaporation rate : not determined
 Flammability (solid, gas) : Not classified as a flammability hazard

SAFETY DATA SHEET**H.B. Fuller® UR-0218-MF**

Version 1.3

Revision Date 12/14/2015

Upper explosion limit	:	upper flammability limit not determined
Lower explosion limit	:	lower flammability limit not determined
Vapor pressure	:	not determined
Density	:	9.300 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
VOC, less water, in g/l	:	0
Solid Content, % by weight:	:	100
VOC, % by weight	:	0

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 inhalation toxicity	:	Acute toxicity estimate : 6.59 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
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Ingredients:**4,4'-methylenediphenyl diisocyanate:**

Acute inhalation toxicity	:	LC50 : 1.5 mg/l
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SAFETY DATA SHEET**H.B. Fuller® UR-0218-MF**

Version 1.3

Revision Date 12/14/2015

Exposure time: 4 h
Test atmosphere: dust/mist**o-(p-isocyanatobenzyl)phenyl isocyanate:**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

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

SAFETY DATA SHEET**H.B. Fuller® UR-0218-MF**

Version 1.3

Revision Date 12/14/2015

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**Special precautions for user**

Remarks : Not dangerous goods

Domestic regulation**International Regulation****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

SAFETY DATA SHEET
H.B. Fuller® UR-0218-MF

Version 1.3

Revision Date 12/14/2015

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.

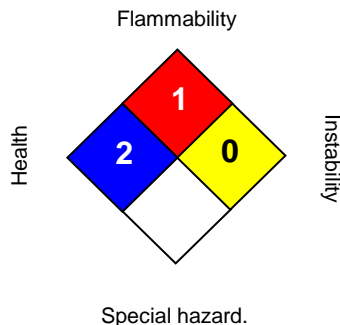
The ingredients of this product are reported in the following inventories:

TSCA On TSCA Inventory
DSL All components of this product are on the Canadian DSL.
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 On the inventory, or in compliance with the inventory
TWINV Not 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)

SECTION 16. OTHER INFORMATION

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

Further information
NFPA:

HMIS III:

HEALTH	2*
FLAMMABILITY	1
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

SAFETY DATA SHEET**H.B. Fuller® UR-0218-MF**

Version 1.3

Revision Date 12/14/2015

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