

Material Safety Data Sheet



NFPA HMIS / WHMIS PPE Transport Symbol



Flammability	1
Health Hazard	2
Stability	1

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Revision Date 05-Jan-2011

Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name UH-2004-05 (V)

Product Type Polyurethane adhesive.

Manufactured by: IFS Industries, Inc.

400 Orrton Avenue P.O. Box 1053

Reading, Pennsylvania 19603

U.S.A

Emergency Contact Number CHEMTREC (800) 424-9300

Telephone for Information (610) 378-1381

2. HAZARDS IDENTIFICATION

Emergency Overview

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION
MOLTEN ADHESIVE MAY CAUSE SEVERE BURNS
MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION

Appearance Opaque Physical State Solid Odor Odorless

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29

CFR 1910.1200).

Potential Health Effects

Principle Routes of Exposure Eye contact, Skin contact, Inhalation.

Acute Toxicity

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Eyes Molten adhesive in eyes may cause severe and permanent damage. Vapors may also

produce eye irritation..

Skin Molten adhesive may cause severe burns. Repeated or prolonged skin contact may result in

allergic sensitization..

Inhalation May cause allergic skin and respiratory tract reaction. As a result of previous repeated

overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. Chronic over exposure to isocyanates has been reported to cause lung

damage...

Ingestion Ingestion can cause gastrointestinal irritation, nausea, vomiting, and diarrhea..

Chronic Effects Chronic Toxicity

Prolonged exposure may cause chronic effects. Repeated contact may cause allergic

reactions in very susceptible persons.

Aggravated Medical Conditions .Eye, skin, and repiratory disorders..

Environmental Hazard See Section 12 for additional Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components		
Components	CAS-No	Weight %
Methylene bisphenyl isocyanate	101-68-8	2 TO 4
(MDI)		

Components	OSHA PEL	ACGIH TLV
Methylene bisphenyl	Ceiling: 0.02 ppm	TWA: 0.005 ppm
isocyanate (MDI)	Ceiling: 0.2 mg/m ³	

4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Contact with molten material: Cool with cold water immediately. Do not remove adhesive.

Seek immediate medical attention/advice..

Skin ContactWash skin with soap and water. Contact with molten material may cause severe burns.

Immediately cool affected skin as long as possible with cold water.. Do not remove clothing if

adhering to skin. Removal of solidified molten material from skin requires medical

assistance. Seek immediate medical attention/advice.

Inhalation Move to fresh air. Continuous breathing of vapors above molten material may cause

irritation. Move to fresh air in case of accidental inhalation of vapors or decomposition products. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Immediate medical attention is required.

Ingestion Do not induce vomiting without medical advice. Immediate medical attention is required.

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable

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Flash Point > 160°C> 400°F

Suitable Extinguishing Media Water spray, dry chemical, carbon dioxide (CO₂), or foam

Hazardous Combustion Products Carbon oxides

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA Health Hazard 2 Flammability 1 Stability 1 Physical and Chemical

Hazards N/A

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Wear protective gloves/clothing and eye/face protection

Methods for ContainmentPrevent further leakage or spillage if safe to do soMethods for Cleaning UpPick up and transfer to properly labeled containers

7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice

Storage Keep containers tightly closed in a dry, cool and well-ventilated place

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines This product, as supplied, contains the following materials with occupational exposure limits

established by the region specific regulatory bodies

Components	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methylene bisphenyl isocyanate	TWA: 0.005 ppm	Ceiling: 0.02 ppm	IDLH: 75 mg/m ³
(MDI)		Ceiling: 0.2 mg/m ³	Ceiling: 0.020 ppm
			Ceiling: 0.2 mg/m ³
			TWA: 0.005 ppm
			TWA: 0.05 mg/m ³

Engineering Measures Showers

Eyewash stations Ventilation systems

Eye/Face Protection
Skin and Body Protection

Eye protection

Pospiratory Protection

Wear protective gloves/clothing

Respiratory Protection If exposure limits a

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

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9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceOpaqueOdorOdorlessPhysical StateSolidpHNot applicableFlash Point> 160°C> 400°FAutoignition TemperatureNo data available

Boiling Point/Range Not applicable>392°F Melting Point/Range No data available180-200°F

Freezing point Not applicable

Flammability Limits in Air Not applicable Explosion Limits Not applicable

Specific Gravity 1.12 VOC Content No VOC

HAPS data No HAPS

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions

Incompatible Products Strong oxidizing agents.

Conditions to Avoid Exposure to water. Excessive heat.

Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO₂).

Hazardous Reactions Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Damaging by inhalation, by contact with the skin and by ingestion

Irritation Repeated or prolonged exposure may cause irritation of eyes and skin

Components	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methylene bisphenyl isocyanate (MDI)	9200 mg/kg (Rat)		

Chronic Toxicity

Chronic Toxicity Prolonged exposure may cause chronic effects. Repeated contact may cause allergic

reactions in very susceptible persons.

Carcinogenicity Contains no ingredient listed as a carcinogen

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of contents/container in accordance with local regulation

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14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

Not regulated MEX

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies Complies **DSL**

EINECS/ELINCS Does not Comply Does not Comply **ENCS** Does not Comply **IECSC KECL** Does not Comply **PICCS** Does not Comply

AICS Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Components	CAS-No	Weight %	SARA 313 - Threshold Values %
Methylene bisphenyl isocyanate (MDI)	101-68-8	2 TO 4	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard Yes **Chronic Health Hazard** Yes Fire Hazard No Sudden Release of Pressure Hazard Nο **Reactive Hazard** No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

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CERCLA

This material, as supplied, contains the following substance(s) regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Components	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Methylene bisphenyl isocyanate (MDI)	5000 lb	

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Components	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methylene bisphenyl	Χ	Χ	X	Χ	X
isocvanate (MDI)					

International Regulations

Components	Carcinogen Status	Exposure Limits
Methylene bisphenyl isocyanate (MDI)		Mexico: TWA= 0.005 ppm
		Mexico: TWA= 0.02 ppm
		Mexico: TWA= 0.051 mg/m ³
		Mexico: TWA= 0.2 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2A Very toxic materials D2B Toxic materials

Components	NPRI
Methylene bisphenyl isocyanate (MDI)	X

16. OTHER INFORMATION

Prepared By Verified by Quality Control Department

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Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS