

		Foster® 81-84B		
Version 1.2		Revision Date 08/07/2024		
SECTION 1. PRODUCT AND C	ОМР	ANY IDENTIFICATION		
Product name	:	Foster® 81-84B		
Product code	:	10000015355		
Manufacturer or supplier's	s deta	ails		
Company	:	H.B. Fuller Construction Products		
Address	:	1105 South Frontenac Aurora, IL, 60504		
Telephone	:	1-800-552-6225		
Medical Emergency Phone Number (24 Hours): 1-888-853-1758				
Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300				
Recommended use of the	chen	nical and restrictions on use		
Recommended use	:	Curing agent		
Restrictions on use	:	For industrial use only.		

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Color	brown
Odor	characteristic

GHS Classification

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

GHS label elements



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Hazard pictograms			

: Danger

Signal Word

Hazard Statements:

H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H331 Toxic if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. H373 May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

Precautionary Statements:

Prevention: 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/ 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 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor. 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/ doctor. 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

Inhalation	: Vapors/fumes may be irritating at application temperatures.
Skin	: Contact with hot product will cause thermal burns.
Aggravated Medical Condition	: None known.
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 component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
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



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Hazardous ingredients

Chemical name	CAS-No.	Concentration [%]
4,4'-Methylenediphenyl diisocyanate	101-68-8	50 - 70
Polymethylene polyphenyl isocyanate	9016-87-9	50 - 70
methylenediphenyl diisocyanate	26447-40-5	30 - 50
Actual concentration is withheld as a trade secret		

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	: Wipe molten product from skin as much as possible. Allow product to cool. Do not peel solidified product from skin. Loosen product from skin with mineral oil and mild abrasion.
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. Seek medical attention if symptoms develop. Provide medical care provider with this SDS.
Notes to physician	: Use mineral oil to soften and loosen product for removal.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	: Do NOT use water jet.
Specific hazards during fire fighting	: Burning produces irritant fumes.
Special protective equipment for fire-fighters	: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES



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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	: Allow to solidify. Scrape up. Shovel into suitable container for disposal.		
ECTION 7. HANDLING AND STO			
Advice on safe handling	 No special precautions are needed in handling this material. Avoid breathing vapors/fumes of heated product. Prevent contact with molten product. 		

Conditions for safe storage	:	Keep in a dry, cool place.
Materials to avoid	:	No special restrictions on storage with other products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
4,4'-Methylenediphenyl diisocyanate	101-68-8	TWA	0.005 ppm 0.05 mg/m3	NIOSH REL
		С	0.02 ppm 0.2 mg/m3	OSHA Z-1
		С	0.2 ppm 0.2 mg/m3	NIOSH REL
		TWA	0.005 ppm	ACGIH
		С	0.02 ppm 0.2 mg/m3	OSHA P0
		TWA	0.005 ppm 0.05 mg/m3	NIOSH REL
		С	0.02 ppm 0.2 mg/m3	NIOSH REL
		PEL	0.005 ppm 0.051 mg/m3	CAL PEL
		С	0.02 ppm 0.2 mg/m3	OSHA Z-1
		С	0.02 ppm 0.2 mg/m3	OSHA P0
		TWA	0.005 ppm 0.05 mg/m3	NIOSH REL
		С	0.02 ppm	NIOSH REL



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		PEL	0.2 mg/m3 0.005 ppm 0.051 mg/m3	CAL PEL
Engineering measures		he application temportemtemportemportemportemportemportemportemportemportempor	erature, use of local exl	haust over the
Personal protective equipme	ent			
Respiratory protection		ase of insufficient ve ipment.	entilation, wear suitable	erespiratory
Filter type	: Co	Combined particulates and organic vapor type		
Hand protection Material Remarks Eye protection	: Wh	ile rubber en handling hot mat ety glasses	erial, use heat resistan	t gloves.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Color Odor Odor Threshold	:	liquid brown characteristic no data available
рН	:	Not applicable
Boiling point/boiling range	:	is not determined
Flash point Evaporation rate Flammability (solid, gas)	:	200 °C is not determined Not classified as a flammability hazard
Upper explosion limit	:	Upper flammability limit is not determined
Lower explosion limit	:	Lower flammability limit is not determined
Vapor pressure	:	is not determined
Relative vapor density	:	is not determined
Density Solubility(ies)	:	10.3 lb/gal
Water solubility	:	insoluble
Partition coefficient: n- octanol/water	:	no data available



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Autoignition temperature	: is not determined
Thermal decomposition	: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
Viscosity Viscosity, kinematic	: Not applicable
ECTION 10. STABILITY AND R	EACTIVITY
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.
Hazardous decomposition products	 In case of incomplete combustion an increased formation of oxides of nitrogen (NOx) is to be expected. Thermal decomposition can lead to release of irritating gases and vapors. Humid air and/or water will produce carbon dioxide which will pressurize the container. Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute inhalation toxicity	: Acute toxicity estimate : 1 mg/l
	Exposure time: 4 h
	Test atmosphere: dust/mist
	Method: Calculation method

Components:

4,4'-Methylenediphenyl diisocyanate:

Acute inhalation toxicity	: Acute toxicity estimate : 1.5 mg/l
	Test atmosphere: dust/mist
	Method: Expert judgment

Polymethylene polyphenyl isocyanate:

Acute inhalation toxicity	: LC50 Rat: 0.49 mg/l
	Exposure time: 4 h
	Test atmosphere: dust/mist



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methylenediphenyl diisocya Acute inhalation toxicity	anate: : Acute toxicity estimate : 1.5 mg/l Test atmosphere: dust/mist Method: Calculation method	
Skin corrosion/irritation		
No data available		
Serious eye damage/eye irritatio	n	
No data available		
Respiratory or skin sensitization	1	
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

Persistence and degradability

No data available **Bioaccumulative potential**

<u>Components:</u> methylenediphenyl diisocyanate : Partition coefficient: n-: log Pow: 4.5 octanol/water



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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. Dispose of in an approved landfill. Consult your state, local or provincial authorities and your local waste vendor 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

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards	 Acute toxicity (any route of exposure) Respiratory or skin sensitization Specific target organ toxicity (single or repeated exposure) Skin corrosion or irritation
	Serious eye damage or eye irritation

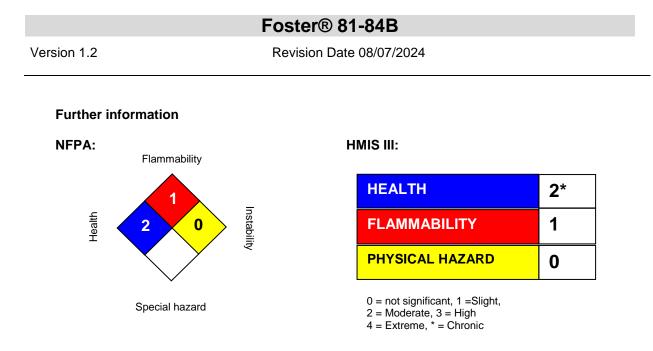


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SARA 302	: This material does not contain any co	omponents with a section 302
	EHS TPQ.	
SARA 313	: The following components are subject by SARA Title III, Section 313:	ct to reporting levels established
	Polymethylene polyphenyl isocyanate	9016-87-9
Clean Air Act		
The following chemical(s) a 61):	re listed as HAP under the U.S. Clean	Air Act, Section 112 (40 CFR
	henyl diisocyanate	101-68-8
US State Regulations		
California Prop 65	: Please contact Supplier for more	information.
	oduct are reported in the following ir	nventories:
TCSI TSCA	On the inventory, or in compliance All substances listed as active on	
AIIC	On the inventory, or in compliance	
DSL	All components of this product are	e on the Canadian DSL
ENCS	On the inventory, or in compliance	
ISHL KECI	On the inventory, or in compliance On the inventory, or in compliance	
PICCS	On the inventory, or in compliance	
IECSC	On the inventory, or in compliance	
NZIOC	Not in compliance with the invento	
CHINV REACH	The mixture contains substances Not in compliance with the inventor	
MYINV	Not in compliance with the inventor	
KKDIK	Not in compliance with the invento	
	On the inventory, or in compliance	
Inventories LegendTSCA (USA), DSL (Canada), REACH(Europe), AIIC (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)		

SECTION 16. OTHER INFORMATION

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





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