

Print Date: 01-09-2017

FOSTER 81-84 PART B
802397PM**SAFETY DATA SHEET**

REVISION DATE: 03-26-2015

SUPERSEDES: 10-07-2014

SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER**PRODUCT INFORMATION**

PRODUCT: FOSTER 81-84 PART B
PRODUCT DESCRIPTION: Urethane curative
INTENDED USE: Adhesive
PRODUCT IDENTIFIER: 802397PM

COMPANY INFORMATION

H.B. Fuller Construction Products Inc.
1105 S. Frontenac Street
Aurora, IL 60504
Phone: 1-800-552-6225

Medical Emergency Phone Number (24 Hours): 1-888-853-1758
Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION**GHS Hazard Symbols:****GHS Signal Word:**

Danger

GHS Classification:

Respiratory Sensitisation Category 1A; Skin Sensitisation Category 1; Skin Corrosion/Irritation Category 2; Carcinogenicity Category 2; Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2; Acute Toxicity - Inhalation Dust / Mist Category 4; Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

GHS Hazard Phrases:

Causes skin irritation.; May cause an allergic skin reaction.; Harmful if inhaled.; May cause allergy or asthma symptoms or breathing difficulties if inhaled.; May cause respiratory irritation.; Suspected of causing cancer.; May cause damage to organs through prolonged or repeated exposure.

GHS Precautions:**Safety Precautions:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

First Aid Measures:

IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. Take off contaminated clothing and wash before reuse.

Print Date: 01-09-2017

FOSTER 81-84 PART B
802397PM

SAFETY DATA SHEET

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal: Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS # | PERCENT | Classification | Note |
|--|------------|---------|---|------|
| Methylene bisphenyl diisocyanate (MDI) | 101-68-8 | 30 - 50 | Acute Tox. 4; H332 Carc. 2; H351 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT RE 2; H373 STOT SE 3; H335 | |
| Polymethylene polyphenyl isocyanate | 9016-87-9 | 30 - 50 | Acute Tox. 4; H332 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT RE 2; H373 STOT SE 3; H335 | |
| Methylenediphenyl diisocyanate | 26447-40-5 | 10 - 30 | Acute Tox. 4; H332 Carc. 2; H351 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT RE 2; H373 STOT SE 3; H335 | |

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

SECTION 4: FIRST AID MEASURES

IF IN EYES: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

IF ON SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

IF INHALED: Remove to fresh air. Restore breathing, if necessary. Call a physician if symptoms persist.

IF SWALLOWED: Do not induce vomiting. Seek medical attention immediately. Drink two glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water spray, foam, dry chemical or carbon dioxide.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Material will burn in a fire.
SPECIAL FIRE FIGHTING INSTRUCTIONS: Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.
HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, Carbon monoxide Nitrogen containing gases
Hydrogen cyanide

Print Date: 01-09-2017

FOSTER 81-84 PART B
802397PM

SAFETY DATA SHEET

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred.

METHODS FOR CLEAN-UP: Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems.
Cover with absorbent material. Place in open topped container.
Remove to well-ventilated area and treat with aqueous ammonia.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

SECTION 7: HANDLING AND STORAGE

Handling: Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Moisture contamination in closed containers may produce carbon dioxide gas pressure.

Storage: Store in a cool, dry place.
Consult the Technical Data Sheet for specific storage instructions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

| Chemical Name | Note | ACGIH EXPOSURE LIMITS | OSHA PEL |
|--|------|---|-------------------------------------|
| Methylene bisphenyl diisocyanate (MDI) | | 0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI)) | 0.02 ppm Ceiling; 0.2 mg/m3 Ceiling |
| Methylenediphenyl diisocyanate | | No data available. | 0.02 ppm Ceiling; 0.2 mg/m3 Ceiling |

ENGINEERING CONTROL METHODS:

VENTILATION: Use local exhaust ventilation or other engineering controls to minimize exposures.

EYE PROTECTION: Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.

SKIN PROTECTION: Avoid skin contact by wearing chemically resistant gloves.

GLOVES: Nitrile

RESPIRATORY PROTECTION: Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. Use supplied-air respiratory equipment as required.
Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

Print Date: 01-09-2017

FOSTER 81-84 PART B
802397PM

SAFETY DATA SHEET

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|------------------------------|
| PHYSICAL STATE: | Liquid |
| COLOR: | Brown |
| ODOR: | Neutral |
| ODOR THRESHOLD: | Not established |
| pH: | Not established |
| FREEZING/MELTING POINT (deg. C): | Not established |
| BOILING POINT (deg. C): | Not established |
| FLASH POINT: | 200°C; 392°F TCC |
| EVAPORATION RATE: | Not established |
| FLAMMABILITY: | Not a flammable solid or gas |
| UPPER EXPLOSIVE LIMIT (% in air): | Not established |
| LOWER EXPLOSIVE LIMIT (% in air): | Not established |
| VAPOR PRESSURE (mm Hg): | Not established |
| VAPOR DENSITY: | Not established |
| WEIGHT PER GALLON (lbs.): | 10.30 |
| SPECIFIC GRAVITY: | 1.230 |
| SOLUBILITY: | Not established |
| OCTANOL/WATER COEFFICIENT: | Not established |
| AUTOIGNITION TEMPERATURE: | Not established |
| DECOMPOSITION TEMPERATURE: | Not established |
| VISCOSITY: | No data available. |
| SOLIDS (% by weight): | 100.0 |
| VOC, weight percent | Not determined |

SECTION 10: STABILITY AND REACTIVITY

| | |
|-----------------------------------|--|
| STABILITY: | Stable under normal conditions. |
| CHEMICAL INCOMPATIBILITY: | Water Alcohols Amines Strong acids Strong alkalies |
| HAZARDOUS POLYMERIZATION: | Will not occur. |
| HAZARDOUS DECOMPOSITION PRODUCTS: | Hydrogen cyanide Nitrogen containing gases Carbon monoxide, carbon dioxide |

SECTION 11: TOXICOLOGICAL INFORMATION

Component Toxicity / Toxicology Data:

| COMPONENT NAME | LD50/LC50 |
|--|--|
| Methylene bisphenyl diisocyanate (MDI) | INHALATION LC50-4H RAT 369.00 MG/M3 |
| Polymethylene polyphenyl isocyanate | INHALATION LC50-4H RAT 490.00 MG/M3 |
| Methylenediphenyl diisocyanate | ORAL LD50 RAT > 7,400 MG/KG INHALATION LC50-4H RAT 0.37 MG/L DERMAL LD50 RABBIT > 6,200.00 MG/KG |

This product is a mixture. Unless noted, the information below is based on components.

Skin corrosion / irritation: Can cause skin irritation.

Serious eye damage / irritation :Can cause moderate irritation, tearing and reddening.

Respiratory / skin sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Germ cell mutagenicity: No data available.

Print Date: 01-09-2017

 FOSTER 81-84 PART B
 802397PM

SAFETY DATA SHEET

Carcinogenicity: May cause tumors based on tests with laboratory animals.

Reproductive toxicity: No data available.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: May cause respiratory irritation.

Specific target organ toxicity-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Target organs potentially affected by exposure: Lungs Skin

Aspiration hazard: No data available.

Medical Conditions Aggravated by Exposure: Skin disease including eczema and sensitization, Lung disease, Persons with existing asthmatic conditions may experience difficulty breathing. Persons who have been sensitized to isocyanates may experience symptoms at very low exposure levels.

SECTION 12: ECOLOGICAL INFORMATION

OVERVIEW: No ecological information available for this product.
 MOBILITY: No data available.
 PERSISTENCE: No data available.
 BIOACCUMULATION: No data available.

This product has not been tested for ecological effects. Relevant information for components is listed below:

| Component: | Ecotoxicity values: |
|--------------------|--|
| No data available. | Acute Toxicity (Fish): Acute Toxicity (Daphnia): Acute Toxicity (Algae): |

SECTION 13: DISPOSAL CONSIDERATIONS

It is our opinion that this product does not meet the definition of hazardous waste under U.S. EPA Hazardous Waste Regulations 40 CFR 261. Dispose of waste material according to state, local or provincial regulations.

SECTION 14: TRANSPORT INFORMATION

Consult Bill of Lading for transportation information.

US DOT: NOT REGULATED IN CONTAINERS LESS THAN 5000 POUNDS. IN CONTAINERS 5000 POUNDS OR MORE: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S., 9, III, RQ (MDI)

IATA: NOT REGULATED IN CONTAINERS LESS THAN 5000 POUNDS. IN CONTAINERS 5000 POUNDS OR MORE: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S., 9, III, RQ (MDI)

SECTION 15: REGULATORY INFORMATION

INVENTORY STATUS

U.S. EPA TSCA: This product is in compliance with the Toxic Substances Control Act's Inventory requirements.

CANADIAN CEPA DSL: The components of this product are included on the DSL or are exempt from DSL requirements.

Print Date: 01-09-2017

FOSTER 81-84 PART B
802397PM**SAFETY DATA SHEET**

| | |
|------------------------|--|
| EUROPEAN REACH: | As a result of the introduction of REACH into Europe, this product cannot be imported into Europe unless the REACH requirements are met. |
| AUSTRALIA AICS: | This product is in compliance with the Australian Inventory of Chemical Substances requirements. |
| JAPAN ENCS: | This product is in compliance with the Japanese Existing and New Chemical Substances requirements. |
| KOREAN TCCL: | This product is in compliance with the Korean Existing Chemicals List requirements. |
| PHILIPPINES: | This product is in compliance with the Philippine Inventory of Chemicals and Chemical Substances requirements. |
| CHINA IECSC INVENTORY: | This product is in compliance with the Inventory of Existing Chemical Substances in China (IECSC) requirements. |

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at reg.request@hbfuller.com to request an export review.

FEDERAL REPORTING**EPA SARA Title III Section 313**

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

| Chemical Name | CAS# | % |
|--|-----------|---------|
| Methylenebis(4-phenyl isocyanate) | 101-68-8 | 30 - 50 |
| Polymeric diphenylmethane diisocyanate | 9016-87-9 | 30 - 50 |

STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

| Chemical Name/List | CAS | Percent |
|--------------------|-----|---------|
|--------------------|-----|---------|

Substances of Very High Concern (SVHC) Content:

Unless listed below, this product does not contain SVHC's.

SECTION 16: OTHER INFORMATION

SDS VERSION DATE: 03-26-2015

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 2 FLAMMABILITY -- 1 REACTIVITY -- 0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department

Phone: 651-236-5842



Print Date: 01-09-2017

FOSTER 81-84 PART B
802397PM**SAFETY DATA SHEET**

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B.Fuller Construction Products, Inc. from its suppliers, and because H.B.Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B.Fuller Construction Products, Inc. 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 H.B.Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B.Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.