

SAFETY DATA SHEET

REVISION DATE: 12-18-2017

SUPERSEDES: 06-25-2015

SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

PRODUCT INFORMATION

PRODUCT: FOSTER 82-77, PART B
PRODUCT DESCRIPTION: Epoxy curing agent
INTENDED USE: Adhesive
PRODUCT IDENTIFIER: 802406PM

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:

Skin Corrosion/Irritation Category 1B; Serious Eye Damage/Eye Irritation Category 1; Skin Sensitisation Category 1; Reproductive Toxicity Category 2; Hazardous to the aquatic environment - Chronic Category 2; Acute Toxicity - Dermal Category 4; Acute Toxicity - Oral Category 4

GHS Hazard Phrases:

Harmful if swallowed or in contact with skin.; Causes severe skin burns and eye damage.; May cause an allergic skin reaction.; Suspected of damaging fertility or the unborn child.; Toxic to aquatic life with long lasting effects.

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. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER or doctor/physician. Rinse mouth. P362+P364 - Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. Collect spillage.

Storage:

Store locked up.

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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
Fatty acid, reaction product with aliphatic amine	68953-36-6	50 - 70	Aquatic Chronic 2; H411 Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317	
Diethylenetriamine	111-40-0	10 - 30	Acute Tox. 3; H311 Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317	

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: Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. This corrosive material can cause immediate and permanent eye damage. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

IF ON SKIN: Wash with soap and water under a drench shower. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately.

IF INHALED: Remove to fresh air. Restore breathing, if necessary. Keep warm and quiet. Call a physician.

IF SWALLOWED: Corrosive. Do not induce vomiting! Drink one glass of water followed by milk if available. Seek medical attention immediately. 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

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, and the area in which the spill occurred. Never exceed any occupational exposure limits.

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.

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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.

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
Diethylenetriamine		1 ppm TWA Skin absorption may potentially contribute to the overall exposure to this material.	Not established

ENGINEERING CONTROL METHODS:

VENTILATION: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

EYE PROTECTION: Wear chemical splash goggles when handling this product. Additionally, wear a face shield when the possibility of splashing of liquid exists. Do not wear contact lenses. Have an eye wash station available.

SKIN PROTECTION: Prevent contact with this product. Wear chemically resistant gloves, long sleeved shirt, an apron, and other protective equipment depending on conditions of use. Skin absorption may potentially contribute to the overall exposure to this material. Appropriate measures should be taken to prevent absorption so that the TLV is not invalidated.

GLOVES: Butyl rubber

RESPIRATORY PROTECTION: Respiratory protection will be required when ventilation or other engineering controls can not reduce the exposure to acceptable levels. NIOSH approved air purifying respirator with organic vapor cartridge and dust/mist filter. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Amber
ODOR:	Amine
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

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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.):	8.10
SPECIFIC GRAVITY:	0.970
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:	Not established
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS:	Nitrogen containing gases Carbon monoxide, carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

Component Toxicity / Toxicology Data:

COMPONENT NAME	LD50/LC50
Diethylenetriamine	Dermal LD50 Rabbit 672.00 mg/kg
Tetraethylenepentamine	Oral LD50 Rat 3,990 mg/kg Dermal LD50 Rabbit 660.00 microliter/kg
Bisphenol A	Dermal LD50 Rabbit 3.00 ml/kg
Triethylenetetramine	Oral LD50 Rat 2,500 mg/kg Dermal LD50 Rabbit 550.00 mg/kg

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

Skin corrosion / irritation: Corrosive to skin tissue. Can cause chemical burns.

Serious eye damage / irritation :Can cause severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excessive blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible.

Respiratory / skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: Contains a substance that is a possible reproductive hazard based on animal studies.

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

Respiratory irritation / Narcotic effects: No data available.

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

Target organs potentially affected by exposure: Skin

Aspiration hazard: Not an aspiration hazard.

Medical Conditions Aggravated by Exposure: Skin disease including eczema and sensitization

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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:
Diethylenetriamine	Acute Toxicity (Fish): Not established Acute Toxicity (Daphnia): EC50 48 h Daphnia magna 16 mg/L (IUCLID) Acute Toxicity (Algae): Not established
Tetraethylenepentamine	Acute Toxicity (Fish): Not established Acute Toxicity (Daphnia): EC50 48 h Daphnia magna 24.1 mg/L (IUCLID) Acute Toxicity (Algae): EC50 72 h Pseudokirchneriella subcapitata 2.1 mg/L (IUCLID)
Bisphenol A	Acute Toxicity (Fish): LC50 96 h Pimephales promelas 3.6 - 5.4 mg/L [flow-through] (EPA); LC50 96 h Pimephales promelas 4.0 - 5.5 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss 4 mg/L (IUCLID); LC50 96 h Brachydanio rerio 9.9 mg/L [static] (IUCLID) Acute Toxicity (Daphnia): EC50 48 h Daphnia magna 10.2 mg/L (IUCLID); EC50 48 h Daphnia magna 3.9 mg/L (IUCLID); EC50 48 h Daphnia magna 9.2 - 11.4 mg/L [Static] (EPA) Acute Toxicity (Algae): EC50 96 h Pseudokirchneriella subcapitata 2.5 mg/L (IUCLID)
Triethylenetetramine	Acute Toxicity (Fish): Not established Acute Toxicity (Daphnia): EC50 48 h Daphnia magna 31.1 mg/L (IUCLID) Acute Toxicity (Algae): EC50 72 h Desmodesmus subspicatus 2.5 mg/L (IUCLID); EC50 72 h Pseudokirchneriella subcapitata 20 mg/L (IUCLID); EC50 96 h Pseudokirchneriella subcapitata 3.7 mg/L (EPA)

SECTION 13: DISPOSAL CONSIDERATIONS

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

Consult Bill of Lading for transportation information.

US DOT: UN1760, CORROSIVE LIQUIDS, N.O.S. (DIETHYLENETRIAMINE, TETRAETHYLENEPENTAMINE), 8, II, MARINE POLLUTANT
 IATA: UN1760, CORROSIVE LIQUID, N.O.S. (DIETHYLENETRIAMINE, TETRAETHYLENEPENTAMINE), 8, II, (< 5L No MP by IATA 4.4 SP A197, > 5L MP)
 IMDG: UN1760, CORROSIVE LIQUID, N.O.S. (DIETHYLENETRIAMINE, TETRAETHYLENEPENTAMINE), 8, II, (< 5L No MP by IMDG 3.3 SP 969, > 5L MP)

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.

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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#	%
4,4'-Isopropylidenediphenol	80-05-7	5 - 10

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
Bisphenol A (Female reproductive toxin)	80-05-7	5 - 10

Substances of Very High Concern (SVHC) Content:

Unless listed below, this product does not contain SVHC's at 0.1% or greater, as of the version date of this SDS.

4,4'-Isopropylidenediphenol
Bisphenol A,4,4'-isopropylidenediphenol

SECTION 16: OTHER INFORMATION

SDS VERSION DATE: 12-18-2017

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 -- 3 FLAMMABILITY -- 1 REACTIVITY -- 0

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

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Prepared by: The Global Regulatory Department

Phone: 651-236-5842

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