

Print Date: 05-11-2015

FOSTER 81-33
802391PM

SAFETY DATA SHEET

REVISION DATE: 04-20-2015

SUPERSEDES: 03-26-2015

SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

PRODUCT INFORMATION

PRODUCT: FOSTER 81-33
PRODUCT DESCRIPTION: Adhesive
INTENDED USE: Adhesive
PRODUCT IDENTIFIER: 802391PM

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 1; Skin Sensitisation Category 1; Germ Cell Mutagenicity Category 1B; Carcinogenicity Category 1B; Reproductive Toxicity Category 2; Hazardous to the aquatic environment - Acute Category 2; Hazardous to the aquatic environment - Chronic Category 2; Flammable Liquid Category 3

GHS Hazard Phrases:

Flammable liquid and vapour.; May cause an allergic skin reaction.; May cause allergy or asthma symptoms or breathing difficulties if inhaled.; May cause genetic defects.; May cause cancer.; Suspected of damaging fertility or the unborn child.; May cause harm to breast-fed children.; Toxic to aquatic life.; 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. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy/while nursing. 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. In case of inadequate ventilation wear respiratory protection.

First Aid Measures:

IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. If skin irritation or

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rash occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse. In case of fire: Use water spray, foam, dry chemical or carbon dioxide to extinguish. Collect spillage.

Storage: Keep container tightly closed. Store in a well-ventilated place. Keep cool. 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
Aromatic petroleum distillate	64742-95-6	10 - 30	Asp. Tox. 1; H304 Carc. 1B; H350 Muta. 1B; H340	
C14-17, chlorinated paraffin	85535-85-9	5 - 10	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Acute Tox. 4; H302	
Trimethylbenzene, 1,2,4-	95-63-6	1 - 5	Aquatic Chronic 2; H411 Acute Tox. 4; H332 Eye Irrit. 2; H319 Flam. Liq. 3; H226 Skin Irrit. 2; H315 STOT SE 3; H335	
Zinc oxide	1314-13-2	1 - 5	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
Crystalline silica	14808-60-7	0.1 - 1	Carc. 1A; H350 STOT RE 1; H372	* (see below)
Titanium dioxide	13463-67-7	0.1 - 1	Carc. 2; H351	* (see below)
Cristobalite	14464-46-1	0.1 - 1	Acute Tox. 4; H332 Carc. 2; H351 STOT RE 1; H372	* (see below)
Hindered phenolic antioxidant	119-47-1	0.1 - 1	Aquatic Chronic 4; H413 Repr. 2; H361	
Antimony trioxide	1309-64-4	0.1 - 1	Aquatic Acute 1; H400 Carc. 2; H351	* (see below)
Stoddard solvent	8052-41-3	0.1 - 1	Asp. Tox. 1; H304 Carc. 1B; H350 Muta. 1B; H340	
Calcium 2-ethylhexanoate	136-51-6	0.1 - 1	Aquatic Chronic 2; H411 Acute Tox. 4; H302 Flam. Liq. 3; H226 Resp. Sens. 1; H334 Skin Sens. 1; H317	

*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

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: Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.

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

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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 if symptoms develop. Provide medical care provider with this MSDS. 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: Vapors are heavier than air and can travel to a source of ignition and flash back.

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 Chlorine containing gases
Metal fumes Nitrogen containing gases

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. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation.

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.
Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

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.
Keep away from heat, sparks and flame.
Wash thoroughly after handling.
Keep container closed.
Emptied container retains vapor and product residue.
Observe all labeled precautions until container is cleaned.
Drums of this material should be grounded when pouring.
DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.

Storage: Store in a cool, dry, ventilated location. Keep away from heat and flame. Keep container closed.

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
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Kaolin clay	* (see below)	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Calcium carbonate	* (see below)	No data available.	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Mica	* (see below)	3 mg/m3 TWA (respirable fraction)	Not established
Zinc oxide		2 mg/m3 TWA (respirable fraction) 10 mg/m3 STEL (respirable fraction)	5 mg/m3 TWA (fume); 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Crystalline silica	* (see below)	0.025 mg/m3 TWA (respirable fraction)	((250)/(%SiO ₂ + 5) mppcf TWA (respirable)); ((10)/(%SiO ₂ + 2) mg/m3 TWA (respirable)); ((30)/(%SiO ₂ + 2) mg/m3 TWA (total dust))
Titanium dioxide	* (see below)	10 mg/m3 TWA	15 mg/m3 TWA (total dust)
Cristobalite	* (see below)	0.025 mg/m3 TWA (respirable fraction)	Not established
Xylene		100 ppm TWA 150 ppm STEL	100 ppm TWA; 435 mg/m3 TWA
Cumene		50 ppm TWA	50 ppm TWA; 245 mg/m3 TWA Skin absorption may potentially contribute to the overall exposure to this material.
Stoddard solvent		100 ppm TWA	500 ppm TWA; 2900 mg/m3 TWA

*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

ENGINEERING CONTROL METHODS:

- VENTILATION: Use local exhaust ventilation or other engineering controls to minimize exposures.
- EYE PROTECTION: Wear safety glasses when handling this product.
- SKIN PROTECTION: Not normally required. Wear chemically resistant gloves to prevent prolonged or repeated contact. 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: 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. 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: Off-white
- ODOR: Solvent

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ODOR THRESHOLD:	Not established
pH:	Not established
FREEZING/MELTING POINT (deg. C):	Not established
BOILING POINT (deg. C):	Not established
FLASH POINT:	43C; 109F 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.):	13.10
SPECIFIC GRAVITY:	1.590
SOLUBILITY:	Not established
OCTANOL/WATER COEFFICIENT:	Not established
AUTOIGNITION TEMPERATURE:	Not established
DECOMPOSITION TEMPERATURE:	Not established
VISCOSITY:	No data available.
SOLIDS (% by weight):	80.0
VOC, weight percent	Not determined
VOC, U.S. EPA Method 24, less water and exempt solvents (theoretically determined)	300g/liter of material

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Stable under normal conditions.
CHEMICAL INCOMPATIBILITY:	Not established
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide Chlorine containing gases Metal fumes Nitrogen containing gases

SECTION 11: TOXICOLOGICAL INFORMATION

Component Toxicity / Toxicology Data:

COMPONENT NAME	LD50/LC50
Calcium carbonate	ORAL LD50 RAT 6,450 MG/KG
Aromatic petroleum distillate	INHALATION LC50-4H RAT 3,400.00 PPM DERMAL LD50 RABBIT > 2,000.00 MG/KG
C14-17, chlorinated paraffin	ORAL LD50 RAT 2,000 MG/KG
Trimethylbenzene, 1,2,4-	ORAL LD50 RAT 3,400 MG/KG INHALATION LC50-4H RAT 18.00 G/M3 DERMAL LD50 RABBIT > 3,160.00 MG/KG
Zinc oxide	ORAL LD50 RAT > 5,000 MG/KG
Quaternary ammonium compounds	ORAL LD50 RAT > 5,000 MG/KG INHALATION LC50-4H RAT > 12.60 MG/L

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

Skin corrosion / irritation: Can cause minor skin irritation, defatting, and dermatitis.

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

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Respiratory / skin sensitization: No data available.

Germ cell mutagenicity: May cause genetic defects.

Carcinogenicity: Contains a material that may cause cancer.

Reproductive toxicity: Contains a substance that is a probable reproductive hazard based on human studies.

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

Respiratory irritation / Narcotic effects: May cause respiratory irritation.

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

Target organs potentially affected by exposure: Lungs Kidneys Liver Blood Central nervous system

Aspiration hazard: No data available.

Medical Conditions Aggravated by Exposure: Lung disease, Liver disease, Kidney disease, Blood disorders (like anemia)

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:
Aromatic petroleum distillate	Acute Toxicity (Fish): 96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/L Acute Toxicity (Daphnia): 48 Hr EC50 Daphnia magna: 6.14 mg/L Acute Toxicity (Algae): Not established
Trimethylbenzene, 1,2,4-	Acute Toxicity (Fish): 96 Hr LC50 Pimephales promelas: 7.19 - 8.28 mg/L [flow-through] Acute Toxicity (Daphnia): 48 Hr EC50 Daphnia magna: 6.14 mg/L Acute Toxicity (Algae): Not established

SECTION 13: DISPOSAL CONSIDERATIONS

This product meets the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. It is ignitable waste class D001. Disposal via incineration is recommended. Consult your state, local, or provincial authorities for more restrictive requirements.

LAND DISPOSAL RESTRICTIONS: Xylenes (o-, m-, p- isomers)

SECTION 14: TRANSPORT INFORMATION

Consult Bill of Lading for transportation information.

US DOT: UN1133, ADHESIVES, 3, III
 IATA: UN1133, ADHESIVES, 3, III
 IMDG: UN1133, ADHESIVES, 3, III, MARINE POLLUTANT (C-14-C17 CHLORINATED PARAFFIN)

SECTION 15: REGULATORY INFORMATION

INVENTORY STATUS

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

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CANADIAN CEPA DSL:	Inventory requirements. The components of this product are included on the DSL or are exempt from DSL requirements.
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.
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#	%
1,2,4-Trimethylbenzene	95-63-6	1 - 5
Zinc compounds	1314-13-2	1 - 5
Xylene (mixed isomers)	1330-20-7	0.1 - 1
Cumene	98-82-8	0.1 - 1
Antimony compounds	1309-64-4	0.1 - 1

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
Quartz (Carcinogen)	14808-60-7	0.1 - 1
Titanium dioxide (Carcinogen)	13463-67-7	0.1 - 1
Cumene (Carcinogen)	98-82-8	0.1 - 1
Antimony(III) oxide (Carcinogen)	1309-64-4	0.1 - 1
ISOBUTYL METHYL KETONE (Carcinogen)	108-10-1	0.001 - 0.01
Arsenic compounds (inorganic) (Carcinogen)	7440-38-2	< 10 ppm
Lead (Carcinogen)	7439-92-1	< 10 ppm
2-Ethylhexanoic acid (Developmental toxin)	149-57-5	0.01 - 0.1
Methanol (Developmental toxin)	67-56-1	0.01 - 0.1
Methyl isobutyl ketone (Developmental toxin)	108-10-1	0.001 - 0.01
Lead (Developmental toxin)	7439-92-1	< 10 ppm
Lead (Female reproductive toxin)	7439-92-1	< 10 ppm
Lead (Male reproductive toxin)	7439-92-1	< 10 ppm

Substances of Very High Concern (SVHC) Content:

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

SECTION 16: OTHER INFORMATION

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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 -- 2 REACTIVITY -- 0

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

Prepared by: The Global Regulatory Department

Phone: 651-236-5842

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.