

MATERIAL SAFETY DATA SHEET

REVISION DATE: 01-06-2012

SUPERSEDES: 02-25-2010

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

PRODUCT INFORMATION

PRODUCT NUMBER: FOSTER 85-20
PRODUCT NAME: FOSTER 85-20
PRODUCT DESCRIPTION: Adhesive
PRODUCT IDENTIFIER: 802414PM

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL STATE: Liquid
COLOR: Off-white
ODOR: Solvent

Moderate eye irritant.
Causes skin irritation.
Severe respiratory tract irritant.
Harmful if swallowed.
Cancer hazard.

POTENTIAL HEALTH EFFECTS BY ROUTE OF ENTRY

EYE: Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

SKIN: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Component(s) may be absorbed through intact skin, but it is unlikely that harmful effects will occur unless contact is prolonged, repeated, and extensive.

INHALATION: Can cause severe respiratory irritation, nausea, and headache. Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.

Inhalation of high concentrations may result in central nervous system (CNS) effects such as dizziness, weakness, fatigue, nausea, headache, and lack of coordination.

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.

INGESTION: Ingestion is not an anticipated route of exposure. Harmful if swallowed. Severely irritating to mouth, throat, and stomach.

LONG-TERM (CHRONIC) HEALTH EFFECTS

REPRODUCTIVE: Contains a substance that is a possible reproductive hazard based on animal studies at doses that could be encountered in the workplace.

TARGET ORGAN(S): Heart Liver Central nervous system Reproductive system Blood Lungs

REGULATED CARCINOGEN STATUS:

MATERIAL SAFETY DATA SHEET

Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH, or OSHA listed carcinogens.

Methylene chloride

Titanium dioxide

EXISTING HEALTH CONDITIONS AFFECTED BY EXPOSURE: Liver disease; Overexposure to methylene chloride may cause cardiac effects (including the elevation of carboxyhemoglobin levels) which may be significant in smokers or persons with anemia or heart disease and those exposed to carbon monoxide; Blood disorders (like anemia); Lung disease

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	PERCENT
Methylene chloride	75-09-2	50 - 70
Chlorinated paraffin	63449-39-8	10 - 30
Calcium carbonate	471-34-1	5 - 10
Toluene	108-88-3	1 - 5
Ethyl alcohol	64-17-5	1 - 5
Titanium dioxide	13463-67-7	0.1 - 1

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. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

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

IF SWALLOWED: Severely irritating. Do not induce vomiting. Seek medical attention immediately. Drink 2 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

FLASH POINT:	Non flammable
AUTOIGNITION TEMPERATURE:	Not established
LOWER EXPLOSIVE LIMIT (% in air):	Not established
UPPER EXPLOSIVE LIMIT (% in air):	Not established
EXTINGUISHING MEDIA:	Use water spray, foam, dry chemical or carbon dioxide.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	There is a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers.
SPECIAL FIRE FIGHTING INSTRUCTIONS:	Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

MATERIAL SAFETY DATA SHEET

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, Carbon monoxide Chlorine 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.

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.

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

SECTION 7: HANDLING AND STORAGE

Handling: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Avoid breathing vapors.
Use only with adequate ventilation.
Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.
Keep container closed.
Emptied container retains vapor and product residue.
Observe all labeled safeguards until container is cleaned.
DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.
Aluminum is not an acceptable material of construction for pumps, mixers, fittings or storage for this product.

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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 and long sleeved shirt. An apron may be appropriate if splashing can occur. 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 will be required when ventilation or other engineering controls can not reduce the exposure to acceptable levels. 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).

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

MATERIAL SAFETY DATA SHEET

EXPOSURE LIMITS:

Chemical Name	ACGIH EXPOSURE LIMITS	OSHA PEL
Methylene chloride	50 ppm TWA	25 ppm TWA 125 ppm STEL (see 29 CFR 1910.1052)
Chlorinated paraffin	Not established	Not established
Calcium carbonate	Not established	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling
Ethyl alcohol	Not established 1000 ppm STEL	1000 ppm TWA; 1900 mg/m ³ TWA
Titanium dioxide	10 mg/m ³ TWA	15 mg/m ³ TWA (total dust)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Off-white
ODOR:	Solvent
ODOR THRESHOLD:	Not established
WEIGHT PER GALLON (lbs.):	10.8
SPECIFIC GRAVITY:	1.29
SOLIDS (% by weight):	43.0
pH:	Not established
FLASH POINT:	Non flammable
BOILING POINT (deg. C):	Not established
FREEZING/MELTING POINT (deg. C):	Not established
VAPOR PRESSURE (mm Hg):	Not established
VAPOR DENSITY:	Not established
EVAPORATION RATE:	Not established
OCTANOL/WATER COEFFICIENT:	Not established
VOC, weight percent	6.15
VOC, EPA Method 24, less water and exempt solvents (theoretically determined)	162g/liter of material

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Stable under normal conditions.
CHEMICAL INCOMPATIBILITY:	Aluminum alloys
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS:	Chlorine containing gases Carbon monoxide, carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

COMPONENT	LD50/LC50
Methylene chloride	Oral LD50 Rat = 1600 mg/kg Inhalation LC50 Mouse = 19049 ppm/4H

MATERIAL SAFETY DATA SHEET

Chlorinated paraffin	Oral LD50 Rat > 21500 ml/kg Dermal LD50 Rabbit > 10 ml/kg
Calcium carbonate	Oral LD50 Rat = 6450 mg/kg
Toluene	Oral LD50 Rat = 636 mg/kg Inhalation LC50 Rat = 49000 mg/cu m/4H Dermal LD50 Rabbit = 14.1 ml/kg
Ethyl alcohol	Oral LD50 Rat = 1501 mg/kg Inhalation LC50 Rat = 124.7 mg/l
Titanium dioxide	Not established

TOXICOLOGY SUMMARY: This product contains methylene chloride. Compliance with applicable parts of the Occupational Safety and Health Administration's (OSHA) regulation 29 CFR 1910.1052, METHYLENE CHLORIDE may be required. Methylene chloride is listed as a potential carcinogen by NTP, IARC, ACGIH and OSHA.

SECTION 12: ECOLOGICAL INFORMATION

OVERVIEW: No ecological information available

SECTION 13: DISPOSAL CONSIDERATIONS

This product contains greater than 10% chlorinated solvent. Spent chlorinated solvents are considered hazardous waste; however, as a component of a mixture, chlorinated solvents do not meet the RCRA definition of hazardous waste under 40 CFR 261. Consult state, local, or provincial authorities for more restrictive requirements.

LAND DISPOSAL RESTRICTIONS: Methylene chloride Toluene

SECTION 14: TRANSPORTATION INFORMATION

Consult Bill of Lading for transportation information.

DOT: UN1593, DICHLOROMETHANE MIXTURE, 6.1, III. IN CONTAINERS 1930 POUNDS OR MORE:
UN1593, DICHLOROMETHANE MIXTURE, 6.1, III, RQ
IATA: UN1593, DICHLOROMETHANE MIXTURE, 6.1, III. IN CONTAINERS 1930 POUNDS OR MORE:
UN1593, DICHLOROMETHANE MIXTURE, 6.1, III, RQ

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.

EUROPEAN EINECS: 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.

KOREAN TCCL: This product is in compliance with the Korean Existing Chemicals List 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

MATERIAL SAFETY DATA SHEET

Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at 651-236-5858 (USA) or 450-655-1306 x227 (Canada) 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#	%
Dichloromethane	75-09-2	50 - 70
Toluene	108-88-3	1 - 5

WHMIS STATUS: Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System.

D2A D2B

STATE REPORTING

This MSDS is not prepared for distribution in California.

SECTION 16: ADDITIONAL INFORMATION

This Material 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 -- 0 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.