MATERIAL SAFETY DATA SHEET

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:
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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

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

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.
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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.
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### EXPOSURE LIMITS:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH EXPOSURE LIMITS</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene chloride</td>
<td>50 ppm TWA</td>
<td>25 ppm TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>125 ppm STEL (see 29 CFR 1910.1052)</td>
</tr>
<tr>
<td>Chlorinated paraffin</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>Not established</td>
<td>15 mg/m3 TWA (total dust); 5 mg/m3 TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(respirable fraction)</td>
</tr>
<tr>
<td>Toluene</td>
<td>20 ppm TWA</td>
<td>200 ppm TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>300 ppm Ceiling</td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>Not established</td>
<td>1000 ppm TWA; 1900 mg/m3 TWA</td>
</tr>
<tr>
<td></td>
<td>1000 ppm STEL</td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>10 mg/m3 TWA</td>
<td>15 mg/m3 TWA (total dust)</td>
</tr>
</tbody>
</table>

### 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**
  - 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

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>LD50/LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene chloride</td>
<td>Oral LD50 Rat = 1600 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Inhalation LC50 Mouse = 19049 ppm/4H</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Material</th>
<th>Toxicity (Rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorinated paraffin</td>
<td>Oral LD50 &gt; 21500 ml/kg, Dermal LD50 Rabbit &gt; 10 ml/kg</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>Oral LD50 Rat = 6450 mg/kg</td>
</tr>
<tr>
<td>Toluene</td>
<td>Oral LD50 Rat = 636 mg/kg, Inhalation LC50 Rat = 49000 mg/cu m/4H, Dermal LD50 Rabbit = 14.1 ml/kg</td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>Oral LD50 Rat = 1501 mg/kg, Inhalation LC50 Rat = 124.7 mg/l</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>Not established</td>
</tr>
</tbody>
</table>

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
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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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichloromethane</td>
<td>75-09-2</td>
<td>50 - 70</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

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

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