SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

PRODUCT INFORMATION
PRODUCT: FOSTER 81-27 Q
PRODUCT DESCRIPTION: Adhesive
INTENDED USE: Adhesive
PRODUCT IDENTIFIER: 802389PM

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

GHS Hazard Symbols:

GHS Signal Word: Danger
GHS Classification: Serious Eye Damage/Eye Irritation Category 1; Skin Corrosion/Irritation Category 2; Acute Toxicity - Oral Category 4
GHS Hazard Phrases: Harmful if swallowed.; Causes skin irritation.; Causes serious eye damage.
GHS Precautions: Wash thoroughly after handling. Do not eat, drink or smoke when using this product. 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 ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Rinse mouth. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>PERCENT</th>
<th>Classification</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium silicate</td>
<td>1344-09-8</td>
<td>30-50</td>
<td>Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Irrit. 2; H315</td>
<td></td>
</tr>
</tbody>
</table>

*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: 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. 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:** 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.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, Carbon monoxide

**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. Contain spill, dilute if necessary and neutralize. Remove with inert absorbent.

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. Aluminum is not an acceptable material of construction for pumps, mixers, fittings or storage for this product.
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Storage: Store in a cool, dry place. Protect from freezing. Consult the Technical Data Sheet for specific storage instructions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Note</th>
<th>ACGIH EXPOSURE LIMITS</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaolin clay</td>
<td>* (see below)</td>
<td>2 mg/m³ TWA (particulate matter containing no asbestos and &lt;1% crystalline silica, respirable fraction)</td>
<td>15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)</td>
</tr>
</tbody>
</table>

*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: 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.

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 dust/mist filter if product is sprayed. 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICAL STATE:</td>
<td>Liquid</td>
</tr>
<tr>
<td>COLOR:</td>
<td>Beige</td>
</tr>
<tr>
<td>ODOR:</td>
<td>Earthy</td>
</tr>
<tr>
<td>ODOR THRESHOLD:</td>
<td>Not established</td>
</tr>
<tr>
<td>pH:</td>
<td>Not established</td>
</tr>
<tr>
<td>FREEZING/MELTING POINT (deg. C):</td>
<td>Not established</td>
</tr>
<tr>
<td>BOILING POINT (deg. C):</td>
<td>Not established</td>
</tr>
<tr>
<td>FLASH POINT:</td>
<td>Non flammable</td>
</tr>
<tr>
<td>EVAPORATION RATE:</td>
<td>Not established</td>
</tr>
<tr>
<td>FLAMMABILITY:</td>
<td>Not a flammable solid or gas</td>
</tr>
<tr>
<td>UPPER EXPLOSIVE LIMIT (% in air):</td>
<td>Not established</td>
</tr>
<tr>
<td>LOWER EXPLOSIVE LIMIT (% in air):</td>
<td>Not established</td>
</tr>
<tr>
<td>VAPOR PRESSURE (mm Hg):</td>
<td>Not established</td>
</tr>
<tr>
<td>VAPOR DENSITY:</td>
<td>Not established</td>
</tr>
<tr>
<td>WEIGHT PER GALLON (lbs.):</td>
<td>13.80</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY:</td>
<td>1.660</td>
</tr>
<tr>
<td>SOLUBILITY:</td>
<td>Not established</td>
</tr>
<tr>
<td>OCTANOL/WATER COEFFICIENT:</td>
<td>Not established</td>
</tr>
</tbody>
</table>
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AUTOIGNITION TEMPERATURE: Not established
DECOMPOSITION TEMPERATURE: Not established
VISCOSITY: No data available.
SOLIDS (% by weight): 65.0
VOC, weight percent 0.00
VOC, U.S. EPA Method 24, less water and exempt solvents (theoretically determined) 0g/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: Carbon monoxide, carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

Component Toxicity / Toxicology Data:

<table>
<thead>
<tr>
<th>COMPONENT NAME</th>
<th>LD50/ LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium silicate</td>
<td>ORAL LD50 RAT 1,153 MG/KG</td>
</tr>
</tbody>
</table>

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

Skin corrosion / irritation: Contact causes severe skin irritation and possible burns.
Serious eye damage / irritation :Corrosive to eye tissue. Can cause severe irritation, tearing, and burns that can quickly lead to permanent injury including blindness.
Respiratory / skin sensitization: No data available.
Germ cell mutagenicity: No data available.
Carcinogenicity: No data available.
Reproductive toxicity: No data available.
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: Lungs
Aspiration hazard: No data available.

Medical Conditions Aggravated by Exposure: Lung disease

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:

<table>
<thead>
<tr>
<th>Component</th>
<th>Ecotoxicity values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium silicate</td>
<td>Acute Toxicity (Fish): 96 Hr LC50 Lepomis macrochirus: 301 - 478 mg/L; 96 Hr LC50</td>
</tr>
</tbody>
</table>
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Brachydanio rerio: 3185 mg/L [semi-static]
Acute Toxicity (Daphnia): Not established
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 corrosive waste class D002. We recommend the required corrosivity testing on product to determine the appropriate waste category. Disposal via incineration is recommended. Consult your state, local, or provincial authorities for more restrictive requirements.

SECTION 14: TRANSPORT INFORMATION
Consult Bill of Lading for transportation information.

US DOT: NOT REGULATED
IATA: NOT REGULATED

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 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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>%</th>
</tr>
</thead>
</table>

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

D2B
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.

<table>
<thead>
<tr>
<th>Chemical Name/List</th>
<th>CAS</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (Carcinogen)</td>
<td>14808-60-7</td>
<td>0.01 - 0.1</td>
</tr>
<tr>
<td>Nickel (Carcinogen)</td>
<td>7440-02-0</td>
<td>&lt; 10 ppm</td>
</tr>
<tr>
<td>Lead (Carcinogen)</td>
<td>7439-92-1</td>
<td>&lt; 10 ppm</td>
</tr>
<tr>
<td>Lead (Developmental toxin)</td>
<td>7439-92-1</td>
<td>&lt; 10 ppm</td>
</tr>
<tr>
<td>Lead (Female reproductive toxin)</td>
<td>7439-92-1</td>
<td>&lt; 10 ppm</td>
</tr>
<tr>
<td>Lead (Male reproductive toxin)</td>
<td>7439-92-1</td>
<td>&lt; 10 ppm</td>
</tr>
</tbody>
</table>

Substances of Very High Concern (SVHC) Content:
Unless listed below, this product does not contain SVHC’s.

SECTION 16: OTHER INFORMATION

SDS VERSION DATE: 03-16-2015

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 -- 3 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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