SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

GENERAL USE: High temperature refractory cement
PRODUCT CODE: 610

MANUFACTURER
Rutland Products
7 Crabtree Rd.
Jacksonville, IL 62650
Alternate Emergency Phone: 217-245-7810
Customer Service: 800-544-1307
E-Mail: sales@rutland.com

2. HAZARDS IDENTIFICATION

GHS LABEL

Exclamation mark

SIGNAL WORD: WARNING
HAZARD STATEMENTS
H320: Causes eye irritation.
H315: Causes skin irritation.
H303: May be harmful if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Vol. %</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>--</td>
<td>1310-73-2</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.
INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Non-Flammable
EXPLOSION HAZARDS: NA = Not Applicable
6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb spilled material and place in appropriate container for disposal.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes, skin, and clothing.

HANDLING: Use with adequate ventilation. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Keep away from food and drinking water.

STORAGE: Keep container closed to prevent drying out.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)

<table>
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<tr>
<th>Chemical Name</th>
<th>ppm</th>
<th>mg/m³</th>
<th>ppm</th>
<th>mg/m³</th>
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<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>2</td>
<td>NL</td>
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</table>

ENGINEERING CONTROLS: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields. Chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent) are recommended.

SKIN: Wear protective clothing, including long sleeves and gloves, to prevent skin contact. Thoroughly wash clothing before reuse.

RESPIRATORY: In case of insufficient ventilation, wear suitable respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Thick paste

ODOR: Mild, not unpleasant.

COLOR: Pale yellow

pH: >= 12.5

FLAMMABLE LIMITS: 0 to 0

SOLUBILITY IN WATER: Soluble

SPECIFIC GRAVITY: 1.8

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

POSSIBILITY OF HAZARDOUS REACTIONS: May react with acids and oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: None known

INCOMPATIBLE MATERIALS: Alkali sensitive metals and alloys

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Acute eye irritant

SKIN EFFECTS: Skin irritant
12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials and operators of nearby water intakes in accordance with local, state and federal regulations.

ECOTOXICOLOGICAL INFORMATION: None known

BIOACCUMULATION/ACCUMULATION: None known

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of this product in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION): Not regulated
ROAD AND RAIL (ADR/RID): Not regulated
AIR (ICAO/IATA): Not regulated
VESSEL (IMO/IMDG): Not regulated

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Chronic health: Carcinogen Acute health: Adverse effect to target organs

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Vol. %</th>
<th>CERCLA RQ</th>
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<tbody>
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<td>Sodium Hydroxide</td>
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CERCLA RQ: 1,000

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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TSCA STATUS: All components are listed on the TSCA Inventory or are excluded or exempt.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS RATING</th>
<th>NFPA CODES</th>
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<tbody>
<tr>
<td>HEALTH</td>
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<tr>
<td>FLAMMABILITY</td>
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<tr>
<td>PHYSICAL HAZARD</td>
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<tr>
<td>PERSONAL PROTECTION</td>
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MANUFACTURER DISCLAIMER: The information presented herein is believed to be accurate but is not warranted. Recipients are advised to confirm in advance that the information is current, applicable and suitable to their circumstances.