1. Product and company identification

Product Name: Perrin’s Conquer
UN/ID No.: UN 1759 Contains Sodium Hydroxide, Sodium Metasilicate

Recommended use of the chemical and restrictions on use
Recommended Use: High Temp Dish Machine Detergent
Supplier: Butler Chemicals, Inc.
3070 E. Ceena CT.
Anaheim, CA. 92806
Print date: May 23, 2015
Responsible name: Kenny Bailey
In case of emergency: HEALTH EMERGENCIES — SPILL EMERGENCIES CALL INFOTRAC 1(800) 535-5053
Product type: Solid Powder

2. Hazards identification

Appearance: White Powder Physical State: Solid Powder Odor: None

Classification
<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity – Oral</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute Toxicity – Inhalation (Dust/Mists)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 1 Sub-category B</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

Signal Word: Danger

Hazard Statement

Eyes & Skin: Causes severe eye damage and skin burns. May be harmful if absorbed through skin. Causes eye burns and skin burns.
Ingestion: Harmful if swallowed. Causes burns. May cause gastric distress or disturbances if ingested
Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
H290 May be corrosive to metals

Precautionary Statements – Preventions

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements – Response**

Immediately call A POISON CENTER or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing immediately call a POISON CONTROL or doctor/physician IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth, Do not induce vomiting

**Precautionary Statements – Storage**

Store locked up
Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements – Disposal**

Disposed of contents/container to an approved waste disposal plant

**Other Hazards**

Harmful to aquatic life with long lasting effects
Harmful to aquatic life

### 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>18-19</td>
</tr>
<tr>
<td>Sodium Metasilicate Anhydrous</td>
<td>6834-92-0</td>
<td>5-6</td>
</tr>
<tr>
<td>Nonylphenol Ethoxylate</td>
<td>9016-45-9</td>
<td>4-5</td>
</tr>
</tbody>
</table>

### 4. First aid measures

**Eye contact:**
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Immediately call a POISON CENTER or doctor/physician

**Skin contact:**
If on Skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Seek medical attention.

**Inhalation:**
If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

**Ingestion:**
If Swallowed: rinse mouth. Do NOT induce vomiting. Drink large quantities of water without delay. Drink milk or milk of magnesia. Immediately call a POISON CENTER or doctor/physician.

**Symptoms**
*Most important symptoms and effects:* Causes severe skin burns and eye damage. May cause respiratory irritation. Ingestion causes acute irritation and burns to the mucous membranes of the mouth, trachea, and esophagus and stomach.

**Note to physician**
Treat symptomatically

### 5. Fire-fighting measures
Flash point: N/A
Flammability of the product: None, Material is not flammable
Suitable Extinguishing media: Foam, Co2, Dry Chemical, Water Spray, Water, Carbon dioxide (CO2)

Non suitable Extinguishing Media
Not determined

Specific Hazards Arising from the Chemical
Product reacts exothermically with water

Unusual Fire & Explosion Hazards
Direct contact with water can cause a violent exothermic reaction

Special protective equipment for fire-fighters:
Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions: Use personal protective equipment as required
Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13, Disposal considerations, for additional information

Methods for cleanup and containment of material
Methods of containment Prevent further leakage or spillage if safe to do so
Large spill: Sweep up and shovel into suitable containers for disposal

7. Handling and storage

Handling: Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray.

Storage Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up.

Incompatible Materials Strong mineral acids, Strong acids. Chemically reactive metals such as aluminum and magnesium. Dissolving product in water liberates much heat.

8. Exposure controls/personal protection

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH-TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>Ceiling: 2 mg/m³</td>
<td>TWA: 2 mg/m³</td>
<td>IDLH: 10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>(vacated) Ceiling:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>2 mg/m³</td>
<td>2 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Local exhaust ventilation recommended. Eye wash stations. Showers.

Individual-protection measures, such as personal protective equipment

Eye/Face Protection Chemical anti-splash safety goggles
Skin and Body Protection Rubber gloves. Wear impervious protective clothing, including boots, gloves, lab
coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory Protection**
Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection. Approved/certified dust respirator or equivalent.

**General Hygiene considerations**
Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling.

### 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Boiling Point</th>
<th>Color</th>
<th>pH</th>
<th>Reactivity in Water</th>
<th>Solubility in Water</th>
<th>Evaporation Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Dissolves with liberation of much heat</td>
<td>Complete</td>
<td></td>
</tr>
</tbody>
</table>

### 10. Stability reactivity

<table>
<thead>
<tr>
<th>Stability</th>
<th>Stable under recommended storage conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous polymerization</td>
<td>Hazardous polymerization does not occur</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Excessive heat. Avoid direct sunlight. Avoid moisture</td>
</tr>
<tr>
<td>Materials to avoid</td>
<td>Strong mineral acids, Strong acids. Chemical reactive metals such as aluminum and magnesium. Dissolving product in water liberates much heat.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>None known based on information sheet.</td>
</tr>
</tbody>
</table>

### 11. Toxicological information

**Information on likely routes of exposure**

<table>
<thead>
<tr>
<th>Eye Contact</th>
<th>Causes severe eye damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Contact</td>
<td>Causes severe skin burns</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Harmful is swallowed</td>
</tr>
</tbody>
</table>

**Component Information**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide 1310-73-2</td>
<td>-</td>
<td>=1350 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>=600 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Information on physical, chemical and toxicological effects**

**Symptoms**
Please see section 4 of this SDS for symptoms

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**
Carcinogenicity  Not classifiable as a human carcinogen.

Numerical Measures of Toxicity-Product
Not determined

12. Ecological information

Ecotoxicity
Harmful to aquatic life with long lasting effects.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide 1310-73-2</td>
<td></td>
<td>45.4: 96h Oncorhynchus mykiss mg/L LC50 Static</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium metasilicate 6834-92-0</td>
<td></td>
<td>210: 96 h Brachydano rario mg/L LC50 semi-static</td>
<td>216: 96 h Daphnia magna mg/L EC50</td>
<td></td>
</tr>
</tbody>
</table>

Persistence/Degratability
Not Determined

Biopacaccumulation
Not Determined

Mobility
Not Determined

Other Adverse Effects
Not Determined

13. Disposal considerations

Waste disposal:
The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a license waste contactor. Disposal of this product, solutions and any by products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contract with soil, waterways, drains and sewers.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Class</th>
<th>PG*</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Classification</td>
<td>UN1759</td>
<td>Sodium Hydroxide, Sodium Metasilicate Anhydrous</td>
<td>8</td>
<td>II</td>
<td>C</td>
</tr>
</tbody>
</table>
*PG: Packing group

15. Regulatory information

International Inventories
Not determined

US Federal Regulations
This material, as supplied, contains one or more substances regulated as a hazardous substance under the comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caustic Soda 1310-73-2</td>
<td>1000 lb</td>
<td></td>
<td>RQ 1000 lb final RQ RQ 454 kg final RQ</td>
</tr>
</tbody>
</table>

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the code of Federal Regulations, Part 372

CWA (Clean Water Act)
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide 1310-73-2</td>
<td>1000 lb</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

US State Regulations

California Proposition 65
WARNING! This product contains a chemical known in the State of California to cause cancer.
1,4 DIOXANE
ETHYLENE OXIDE
WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.
ETHYLENE OXIDE
SARA HAZARD Classification: Acute health Hazard

16. Other information

HMIS
Indicates information that has changed from previously issued version.

Health Hazards: 2
Flammability: 0
Reactivity: 1
Personal Protection: B

Disclaimer
The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and in not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet