1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: EMERGE
Recommended use: Use in drains

Information on Manufacturer:
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code: 10172122
Chemical nature: Aqueous solution, Alkaline
Emergency Telephone:
CHEMTREC® 800-424-9300
Telephone Inquiry:
972-579-2477

2. HAZARD IDENTIFICATION

Color: Blue
Physical state: Liquid
Odor: Odorless

GHS Classification:
Physical Hazards: Corrosive to Metals
Category 1

Health Hazard:
Acute Oral Toxicity: Category 4
Skin Corrosion/irritation: Category 1
Serious Eye Damage/eye irritation: Category 1

Other Hazards: None

Labeling:
Signal Word: DANGER

Hazard statements:
H334 - Causes severe skin burns and eye damage
H302 - Harmful if swallowed
H290 - May be corrosive to metals

Precautionary Statements:
P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P284 - Wash face, hands and any exposed skin thoroughly after handling.
P260 - Do not breathe mist.
P270 - Do not eat, drink or smoke when using this product.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water or shower.
P332 + P313 - IF skin irritation occurs, get medical attention.
P363 - Wash contaminated clothing before reuse.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a physician.
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 - IF experiencing respiratory symptoms, call a physician.
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P390 - Absorb spillage to prevent damage.
P406 - Store in a corrosion-resistant container.
P501 - Dispose of contents and container in accordance with applicable local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>1310-56-3</td>
<td>15-40</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>5-10</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

**General advice**
Do not get in eyes, on skin or on clothing. Do not breathe mist.

**Eye Contact**
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.

**Skin Contact**
Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

**Inhalation**
Move to fresh air. In case of shortness of breath, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

**Ingestion**
Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

**Notes to physician**
Treat symptomatically. The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

### 6. FIRE-FIGHTING MEASURES

**Flash Point**
Does not flash

**Flammability Limits In Air %**
Hydrogen, by reaction with metals.  
Upper: 75  
Lower: 4

**Suitable Extinguishing Media**
Water spray. Foam. Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Specific hazards arising from the chemical**
Material can create slippery conditions. Contact with metals liberates flammable hydrogen gas.

**Protective Equipment and Precautions for Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, OSHA (approved or equivalent) and full protective gear.

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS -</th>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**
Use personal protective equipment. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

**Environmental Precautions**
Do not flush into surface water or sanitary sewer system.

**Methods for Containment**
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

**Methods for Cleaning Up**
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

**Neutralizing Agent**
Acetic acid, diluted.

### 7. HANDLING AND STORAGE

**Handling**
Do not get in eyes, on skin or on clothing. Do not breathe mist.

**Storage**
Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Metal containers must be lined.

**Storage Temperature**
Minimum: 36 °F / 2 °C  
Maximum: 120 °F / 49 °C

**Storage Conditions**
Indoor: X  
Outdoor: Heated  
Refrigerated

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>Ceiling: 2 mg/m³</td>
<td>No data available</td>
<td>Ceiling: 2 mg/m³</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>Ceiling: 2 mg/m³</td>
<td>TWA: 2 mg/m³</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

**Engineering Measures**
Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**Personal Protective Equipment**
- **Eye/Face Protection**
  - Tightly fitting safety goggles. Face-shield.
- **Skin Protection**
  - Wear suitable protective clothing, impervious gloves.
- **Respiratory Protection**
  - In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing
General Hygiene Considerations: concentrations above the exposure limit they must use appropriate certified respirators. Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

### 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>Blue</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>14</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>0.22 (Butyl acetate=1)</td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>0</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>7.44 mmHg @ 70°F</td>
</tr>
<tr>
<td>Solubility</td>
<td>Completely soluble</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>230 °F / 1110 °C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Does not flash</td>
</tr>
<tr>
<td>Autogignition Temperature</td>
<td>No information available,</td>
</tr>
<tr>
<td>Flammability Limits in Air %:</td>
<td>Hydrogen, by reaction with metals</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY


Decomposition Temperature: No data available

Hazardous Decomposition Products: Carbon oxides, Potassium oxides, Hydrogen, by reaction with metals, Nitrogen oxides (NOX), Sodium and other hydroxides. None under normal processing.

### 11. TOXICOLOGICAL INFORMATION

Product Information: No information available.

The following values are calculated based on chapter 3.1 of the GHS document:

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
<td>No information available</td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>No information available</td>
</tr>
<tr>
<td>Inhalation LC50</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Acute Effects:
- Eyes: Corrosive to the eyes and may cause severe damage including blindness. Causes skin burns.
- Skin: Harmful by inhalation. Causes burns.
- Inhalation: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
- Ingestion: Inhaled corrosive substances can lead to a toxic edema of the lungs.

Chronic Toxicity:
- Target Organ Effects: Respiratory system, Eyes, Skin.
- Aggravated Medical Conditions: Skin disorders, Respiratory disorders.
- Component Information: Acute Toxicity:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
<th>Draize Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide 1310-58-3</td>
<td>= 264 mg/kg ( Rat )</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Sodium hydroxide 1310-73-2</td>
<td>No data available</td>
<td>= 1350 mg/kg ( Rabbit )</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Chronic Toxicity:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Mutagenicity</th>
<th>Sensitization</th>
<th>Developmental Toxicity</th>
<th>Reproductive Toxicity</th>
<th>Target Organ Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide 1310-58-3</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>Skin; Eyes; Respiratory system</td>
</tr>
<tr>
<td>Sodium hydroxide 1310-73-2</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>Skin; Eyes; Respiratory system</td>
</tr>
</tbody>
</table>
Carcinogenicity

There are no known carcinogenic chemicals in this product.

### 12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Microtox</th>
<th>Crustacea</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>No information available.</td>
<td>No information available.</td>
<td>No info</td>
<td>No info available.</td>
<td>0.85</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>No information available.</td>
<td>LC50 = 46.4 mg/l Oncorhynchus mykiss 96 h</td>
<td>No info</td>
<td>No info available.</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

### 13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of in accordance with local regulations.

Container Disposal

Empty containers should be taken for local recycling, recovery, or waste disposal. Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

DOT

- **Proper Shipping Name**: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (POTASSIUM HYDROXIDE, SODIUM HYDROXIDE)
- **Hazard Class**: 8
- **UN-No**: UN3266
- **Packing Group**: III
- **Reportable Quantity (RQ)**: Potassium hydroxide, RQ kg= 2049.30 Sodium hydroxide, RQ kg= 5044.47
- **Description**: UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (POTASSIUM HYDROXIDE, SODIUM HYDROXIDE), 8, PG III

TDG

- **Proper shipping name**: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (POTASSIUM HYDROXIDE, SODIUM HYDROXIDE)
- **Hazard Class**: 8
- **UN-No**: UN3266
- **Packing Group**: III
- **Description**: UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (POTASSIUM HYDROXIDE, SODIUM HYDROXIDE), 8, PG III

ICAO

- **UN-No**: UN3266
- **Proper Shipping Name**: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (POTASSIUM HYDROXIDE, SODIUM HYDROXIDE)
- **Hazard Class**: 8
- **Packing Group**: III
- **Shipping Description**: UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (POTASSIUM HYDROXIDE, SODIUM HYDROXIDE), 8, PG III

IATA

- **UN-No**: UN3266
- **Proper Shipping Name**: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (POTASSIUM HYDROXIDE, SODIUM HYDROXIDE)
- **Hazard Class**: 8
- **Packing Group**: III
- **ERG Code**: SI
- **Shipping Description**: UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (POTASSIUM HYDROXIDE, SODIUM HYDROXIDE), 8, PG III

IMDG/MSC

- **UN proper shipping name**: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (POTASSIUM HYDROXIDE, SODIUM HYDROXIDE)
- **Hazard Class**: 8
- **UN Number**: UN3266
- **Packing Group**: III
EmS No. F-A, S-B
Description UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (POTASSIUM HYDROXIDE, SODIUM HYDROXIDE), 8, PG III

15. REGULATORY INFORMATION

Inventories
TSCA Complies
DSL Complies
U.S. Federal Regulations

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.

SARA 311/312 Hazardous Categorization
See Section 2

CERCLA

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA EHS RQs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>1000 lb</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1000 lb</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

Prepared By Pamela Starkey
Supersedes Date 04/13/2017
Issuing Date 02/14/2019
Reason for Revision No information available.
Glossary No information available.
List of References No information available.

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