SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Enprox® 714

Substance number : REL_4069

Chemical usage : Water treatment compound.

Manufacturer or supplier’s details

Company : Chemetall US, Inc.

Address : 675 Central Avenue
           New Providence NJ 07974

Telephone : (800) 526-4473

Telefax : (908) 464-4658

Emergency telephone no : CHEMTREC - 800-424-9300, 1-703-527-3887 (International)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

| Appearance | liquid |
| Colour     | clear  |
| Odour      | mild   |

| Hazard Summary | Harmful by inhalation and if swallowed. Causes severe burns. |

GHS Classification

Skin corrosion : Category 1A

Serious eye damage : Category 1

GHS Label element

Hazard pictograms : ![Hazard Pictogram]

Signal word : Danger

Hazard statements : Causes severe skin burns and eye damage.

Precautionary statements : Prevention:
Wash skin thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
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 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.
Wash contaminated clothing before reuse.

Storage:
Store locked up.

Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects
Inhalation : yes
Skin : yes
Ingestion : yes
Aggravated Medical Condition : None known.

Carcinogenicity:
IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION INFORMATION ON INGREDIENTS

Substance / Mixture :

Hazardous components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>30 - 50</td>
</tr>
</tbody>
</table>

Specific chemical identity of composition has been withheld as a trade secret.

Exact percentage of composition has been withheld as a trade secret.

**SECTION 4. FIRST AID MEASURES**

**If inhaled**
- Move to fresh air.
- If symptoms persist, call a physician.
- If breathing is irregular or stopped, administer artificial respiration.

**In case of skin contact**
- Wash off immediately with plenty of water for at least 15 minutes.
- Take off contaminated clothing and shoes immediately.
- Get medical attention if irritation develops and persists.

**In case of eye contact**
- Rinse immediately with plenty of water for at least 15 minutes.
- Keep eye wide open while rinsing.
- Get medical attention immediately.

**If swallowed**
- Rinse mouth.
- Drink 1 or 2 glasses of water.
- Never give anything by mouth to an unconscious person.
- Get medical attention immediately.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media:
- Dry chemical
- Carbon dioxide (CO2)
- Foam
- Water spray

Further information:
- Use water spray to cool unopened containers.

Special protective equipment for firefighters:
- In the event of fire, wear self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures:
- Ensure adequate ventilation.
- Material can create slippery conditions.

Methods and materials for containment and cleaning up:
- Ventilate area.
- Neutralise with acid.
- Clean up with inert absorbant material.
- Keep in suitable, closed containers for disposal.
- Flush with plenty of water.

Additional advice:
- Never return spills in original containers for re-use.
SECTION 7. HANDLING AND STORAGE

Advice on safe handling:
- Add this product to surface of solution slowly to avoid spattering.
- Do not add large amounts of product to solution at any one time.
- Do not add to hot water warmer than 43 degrees to 49 degrees C (110 degrees to 120 degrees F).
- Never add liquids to product.

Conditions for safe storage:
- Keep containers dry and tightly closed to avoid moisture absorption and contamination.
- Store indoors in a cool, well-ventilated place.
- Do not store below 40 F.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters:

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>C</td>
<td>2.000000 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>2.000000 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C</td>
<td>2.000000 mg/m³</td>
<td>OSHA P0</td>
</tr>
</tbody>
</table>

Personal protective equipment:

Respiratory protection:
- If the occupational exposure limits cannot be met, suitable respirator equipment shall be worn.

Hand protection:
- Remarks: Impervious gloves

Eye protection:
- Chemical resistant goggles must be worn.
- Face-shield

Skin and body protection:
- Rubber or plastic apron

Hygiene measures:
- Avoid contact with skin, eyes and clothing.
- Wear suitable gloves and eye/face protection.
- Wear suitable protective clothing.
- Wash hands before breaks and immediately after handling the product.
- Provide adequate ventilation.
- Do not inhale fumes.
- Keep away from food and drink.
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Colour : clear
Odour : mild
pH : > 12.5
Freezing point : 4.4 °C
Boiling point/boiling range : no data available
Flash point : does not flash
Evaporation rate : 1
   Water = 1
Upper explosion limit : Not applicable.
Lower explosion limit : Not applicable.
Vapour pressure : no data available
Relative vapour density : 0
Relative density : 1.49
Bulk density : 12.45 lb/gal
Solubility(ies)
Water solubility : completely soluble
Auto-ignition temperature : No data available
Thermal decomposition : No data available
Viscosity, dynamic : No data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : freezing
Incompatible materials : Acids
Hazardous decomposition products : Hydrogen, by reaction with metals

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Product:
Acute oral toxicity : Acute toxicity estimate : > 5,000.000000 mg/kg
Method: Calculation method

Acute dermal toxicity: Acute toxicity estimate: 2,922.000000 mg/kg
Method: Calculation method

Components:
Sodium hydroxide:
Acute oral toxicity:
LD50 mouse: 6,600.000000 mg/kg
LD50 rat: 4,090.000000 mg/kg

Acute inhalation toxicity:
LC50 mouse: 1,200.000000 mg/l
Exposure time: 2 h
Test atmosphere: dust/mist

LC50 rat: 2,300.000000 mg/l
Exposure time: 2 h
Test atmosphere: dust/mist

Acute dermal toxicity:
LD50 rabbit: 1,350.000000 mg/kg

Skin corrosion/irritation
Components:
Sodium hydroxide:
Result: Corrosive

Serious eye damage/eye irritation
Components:
Sodium hydroxide:
Result: Corrosive
Classification: Corrosive

Respiratory or skin sensitisation
no data available

Germ cell mutagenicity
no data available

Carcinogenicity
no data available

Reproductive toxicity
no data available

STOT - single exposure
no data available

STOT - repeated exposure
no data available

**Aspiration toxicity**
no data available

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**
no data available

**Other adverse effects**

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**
Waste from residues: Refer to all federal, provincial, state and local regulation prior to disposition of container and unused contents by reuse, recycle or disposal.

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**SECTION 14. TRANSPORT INFORMATION**

**International regulation**
UN1824, Sodium Hydroxide, Solution, Class 8, PG III, RQ

**National Regulations**
UN1824, Sodium Hydroxide, Solution, Class 8, PG III, RQ

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**SECTION 15. REGULATORY INFORMATION**

**TSCA Status**
All components of this material comply with US TSCA requirements.

**OSHA Hazards**
Harmful by skin absorption., Corrosive to skin

**WHMIS Classification**
E: Corrosive Material
D2B: Toxic Material Causing Other Toxic Effects

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>1,000</td>
<td>2,165</td>
</tr>
</tbody>
</table>

**SARA 311/312 Hazards**
Acute Health Hazard
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations
Massachusetts Right To Know
Sodium hydroxide 1310-73-2

Pennsylvania Right To Know
water 7732-18-5
Sodium hydroxide 1310-73-2

New Jersey Right To Know
water 7732-18-5
Sodium hydroxide 1310-73-2

NFPA:
HMIS III:

Flammability

Health 3 1

Physical Hazard

Instability

Special hazard.

3 = High
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Corrosive Alkaline
Splash Goggles, Gloves, Apron, Dust and Vapour Respirator

SECTION 16. OTHER INFORMATION

Further information

Version 1.2
Revision Date 10/19/2016

Chemetall US, Inc. warrants that the products described herein will conform with its published specifications.

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