SECTION 1: IDENTIFICATION

Product name: SLIX
Recommended use: Degreaser
Physical Description: Clear water white liquid with mild odor
Generic Ingredients: Water, surfactants, and inorganic builder

Manufacturer:
Penetone Corporation
125 Kingsland Ave.
Clifton, NJ 07014
800-631-1652 or 201-567-3000

Business Contact:
Customer Service
800-631-1652 x2300 or 2272
Product Safety
800-631-1652 x2211 or 2257

Emergency Phone Numbers:
PENETONE 201-567-3000 CHEMTREC 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

<table>
<thead>
<tr>
<th>Health:</th>
<th>Physical:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion: 1C</td>
<td>not classified</td>
</tr>
<tr>
<td>Eye damage: 1</td>
<td></td>
</tr>
</tbody>
</table>

DANGER!
Causes Severe Skin Burns and Eye Damage.

Precautionary Statements:

Prevention:
Do not breathe mists if inhalable mists occur during use. Wear protective gloves, clothing, eye protection, and face protection. Wash hands and exposed skin thoroughly after handling.

Response:
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin or hair: Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center, doctor, emergency room, or 911.

Storage:
Store locked up.

Disposal:
Dispose of contents/container in accordance with local, regional, and national regulations (see Sections 13 and 15 of SDS for disposal and reporting requirements).

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Concentration Wt% (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>60-80</td>
</tr>
<tr>
<td>Ethoxylated nonylphenol</td>
<td>127087-87-0</td>
<td>20-30</td>
</tr>
<tr>
<td>Sodium xylene sulfonate</td>
<td>1300-72-7</td>
<td>&lt;10</td>
</tr>
<tr>
<td>Sodium silicate</td>
<td>1344-09-8</td>
<td>&lt;10</td>
</tr>
</tbody>
</table>

(1) Exact percentages being withheld under trade secret provision of OHSA HCS 1910.1200(i)
SECTION 4: FIRST-AID MEASURES

General Description of Symptoms & First-Aid Measures
Most likely workplace exposure routes will be skin contact or inhalation.

For skin contact, typically no immediate effects will be observed. A tingling or burning sensation might be felt some time after exposure. Slight reddening or minor irritation could also develop if product is not quickly washed off.

Inhalation exposure may produce varied effects, particularly if exposure occurs above the recommended workplace exposure limits (see SECTION 8). Typical symptoms could include coughing, sneezing, and a tingling or burning sensation in the nose, throat, and lungs.

Eyes
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, doctor, physician or other competent medical authority for medical advice. Penetone recommends that after any eye exposure a physician be seen immediately.

Ingestion
If swallowed: Rinse mouth. DO NOT INDUCE VOMITING. Immediately call a poison center, doctor, physician or other competent medical authority for medical advice.

Inhalation
If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a local Poison Control Center, physician, or other competent medical authority for medical advice.

Skin
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. A mild soap may be used to wash skin. Wash contaminated clothing before reuse. Immediately call a local Poison Control Center, doctor, physician or other competent medical authority for medical advice.

Special Treatment / Other
None

SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties
Classification: Non-flammable
Flash Point: None-to-boil
Autoionization Temperature: Not applicable
Lower Flammable Limit: Not applicable Upper Flammable Limit: Not applicable

Specific Hazards
Product is water based and presents no unusual fire hazards.

Extinguishing Media
Use extinguishing agents appropriate for controlling surrounding fire.

Unsuitable: None.

Protection & Precautions for Firefighters
Protective Equipment & Clothing: Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters protective clothing will only provide limited protection.

Fire Fighting Guidance: Cool containers with flooding quantities of water until well after fire is out. Move containers from fire area if you can do it safely. Dike fire control water for later disposal; do not scatter material. Containers can expand and explode under fire conditions due to vapor buildup. Always stay away from containers
Engulfed in fire.

**Hazardous Combustion Products:** Smoke, fumes, and oxides of carbon and sulfur when taken to dryness and burned.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Land Spill**
Adsorb spillage to prevent material damage. Stop leak if you can do it safely. For large spills, dike and pump into properly labeled containers for reclamation or disposal. For small spill, soak up with absorbent material and place in properly labeled containers for disposal. Neutralize residue with dilute acid and follow with a liberal covering of sodium bicarbonate or other acceptable drying agent.

**Water Spill**
This is a water based product and will completely mix/dissolve in water making recovery difficult. This product is caustic and will raise the pH of surface waters. Check with local environmental regulatory agencies for reporting requirements.

*See SECTION 8 for EXPOSURE CONTROLS and PERSONAL PROTECTION.*

### SECTION 7: HANDLING & STORAGE

**Handling**
Avoid contact with eyes, skin and clothing. After handling, always wash hands thoroughly with soap and water. Avoid personal contact with any residue. Do not cut, weld, or reuse empty container.

**Storage**
Store locked up. Do not store near strong acids. Do not store in direct sunlight. Avoid storing above 120°F (49°C).

### SECTION 8: EXPOSURE CONTROLS and PERSONAL PROTECTION

**Engineering Controls**
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

**Personal Protection**

- **Inhalation** A respiratory protection program that meets OSHA's 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use. Use of an organic vapor mask or respirator is recommended.

- **Skin** Wear chemical resistant gloves such as: rubber, nitrile, neoprene, or latex when skin contact is possible. Protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn depending on how the product is used. PPE should be cleaned thoroughly after each use.

- **Eyes** Penetone recommends always wearing safety glasses as a minimum in any workplace. Conditions may warrant the use of chemical goggles and possibly a face shield. Consult your standard operating procedure or safety professional for advice. Use protective eye and face devices that comply with ANSI Z87.1-1987.

**Additional Remarks**
Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.
### Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Source</th>
<th>Value</th>
<th>Type</th>
<th>Notation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium silicate (1)</td>
<td>ACGIH</td>
<td>2 mg/m³</td>
<td>Ceiling</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NIOSH</td>
<td>2 mg/m³</td>
<td>Ceiling</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA</td>
<td>2 mg/m³</td>
<td>TWA</td>
<td></td>
</tr>
</tbody>
</table>

(1) No OEL has been established for sodium silicate. Because of product pH, value given is for sodium hydroxide.

### SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

- **Appearance:** clear water white liquid
- **Odor:** mild
- **Odor Threshold:** not determined
- **pH:** about 12
- **Melting Point / Freezing:** about 32°F
- **Boiling Point / Boiling Point Range:** about 212°F
- **Flash Point:** not applicable
- **Evaporation Rate:** equal to water
- **Flammability:** not applicable
- **Lower Flammable Limit:** not applicable
- **Upper Flammable Limit:** not applicable
- **Explosive Properties:** not applicable
- **Vapor Pressure:** equal to water
- **Relative Vapor Density:** equal to water
- **Relative Density:** 1.05
- **Solubility (Water):** soluble in water
- **Partition Coefficient (K<sub>ow</sub>):** not determined
- **Auto-ignition temperature:** not determined
- **Decomposition temperature:** not applicable
- **Viscosity:** 100-200 centipoise at room temperature

### SECTION 10: STABILITY & REACTIVITY

#### Reactivity
Product will react with acids, giving off heat.

#### Chemical Stability
Stable.

#### Hazardous Reactions
Mixing with acids will give off heat and may cause splattering.

#### Conditions to Avoid
Corrosive liquid. Do not store near strong acids.

#### Incompatible Materials
Strong acids.

#### Hazardous Decomposition Products
Oxides of carbon and sulfur when taken to dryness and burned.
SECTION 11: TOXICOLOGICAL INFORMATION

Product Summary
This product has a pH of about 12 and contains a high level of surfactants and a low level of inorganic builder (silicate). The product should be considered corrosive to all tissues. Contact with skin and/or eyes, ingestion, or inhalation of spray mist may be corrosive. Possible effects include severe irritation, burns, and permanent damage to exposed tissues if immediate action is not taken.

Acute Toxicity:
- **Dermal:** LD₅₀ > 5,000 mg/kg rabbit (estimated using additivity formula)
- **Inhalation:** No data available
- **Oral:** LD₅₀ > 5,000 mg/kg rat (estimated using additivity formula)

Skin Corrosion/Irritation
Corrosive. Causes skin burns. Prolonged or repeat skin exposures can result in dermatitis.

Serious Eye Damage/Irritation
Corrosive. Causes serious eye damage which can result in severe irritation, pain and burns, and permanent damage including blindness.

Sensitization - Respiratory or Skin
No data available for the product. Based upon components, product is not expected to be a respiratory or skin sensitizer.

Germ Cell Mutagenicity
No data available for the product. Based upon components, product is not expected to result in germ cell mutagenicity.

Carcinogenicity
No material in this product is listed by IARC, NTP, or OSHA as a carcinogen.

Reproductive Toxicity
No data for the product. Insufficient data for the components to evaluate. Based upon partial component data, product is not expected to be a reproductive or developmental toxicant.

The nonionic surfactant used in this product has produced effects in the fetus only at levels that were toxic to the parent animals.

Specific Target Organ Effects - Single Exposure
No data.

Specific Target Organ Effects - Repeated or Prolonged Exposure
No data available.

Frequent ingestion over extended periods of time of gram quantities of sodium silicate are associated with kidney stone formation and other siliceous urinary calculi in humans.

Aspiration Hazard
Based upon available data, product is not likely to be an aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

Product Summary
This material is alkaline and may raise the pH of surface waters with low buffering capacity. Product should be considered toxic to aquatic organisms. (Acute aquatic toxicity category 2 according to European Union classification).
Ecotoxicity
LC50/EC50 1-10 mg/l (estimated using additivity formula)

Persistence and Degradability
Sodium metasilicate will dissociate into its ionic form in the aquatic environment. Natural carbon dioxide will slowly neutralize it. The surfactants in this product are all biodegradable to readily biodegradable. The chelate is inherently biodegradable.

Bioaccumulative Potential
Bioaccumulation potential of the materials used in this product are low.

Other Adverse Effects
None known.

SECTION 13: DISPOSAL CONSIDERATIONS
Product is a D002 Corrosive Hazardous Waste under RCRA definitions. Dispose of contents/container in accordance with all applicable federal, state, and local regulations.

Note: Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes. Appropriate hazardous waste designation is the responsibility of the user.

SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>ID No.:</th>
<th>UN3266</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (contains sodium silicate)</td>
</tr>
<tr>
<td>Hazard Class:</td>
<td>8</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>III</td>
</tr>
<tr>
<td>Label:</td>
<td>CORROSIVE</td>
</tr>
<tr>
<td>Marine Pollutant:</td>
<td>No</td>
</tr>
<tr>
<td>RQ:</td>
<td>none</td>
</tr>
<tr>
<td>Special Precautions:</td>
<td>none</td>
</tr>
</tbody>
</table>

SECTION 15: REGULATORY INFORMATION

TSCA
The ingredients in this product are listed on the TSCA inventory.

RCRA HAZARD CLASS
D002 - Corrosive hazardous waste

SARA 311/312 REPORTABLE HAZARD CATEGORIES: Immediate (Acute) Health

REPORTING REQUIREMENTS (all quantities in pounds)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS / 313 Code</th>
<th>Section 302 (EHS) TPQ</th>
<th>Section 304 EHS RQ</th>
<th>CERCLA RQ (1)</th>
<th>Section 313</th>
<th>CAA 112(r) TQ</th>
<th>CWA / OPA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No component subject to reporting requirements</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
NEW JERSEY RIGHT-TO-KNOW INFORMATION
This product contains water (CAS# 7732-18-5), ethoxylated nonylphenol (CAS# 127087-87-0), sodium xylene sulfonate (CAS 1300-72-7), and sodium silicate (CAS# 1344-09-8).

CALIFORNIA PROPOSITION 65 INFORMATION
This product does not contain any chemicals recognized by the state of California to cause cancer and/or birth defects or reproductive harm.

SCAQMD INFORMATION
Is there a photochemically reactive material present? No
What is the % by volume of photochemically reactive material? 0
What is the VOC content? 0
What is the vapor pressure of VOC's? 0

SECTION 16: OTHER INFORMATION
REVISION SUMMARY
Change in header and section 1

SUPERSEDES ISSUE DATE
April 1, 2015

HAZARD RATING SYSTEMS:

<table>
<thead>
<tr>
<th>HMIS</th>
<th>NFPA</th>
<th>KEY</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>REACTIVITY</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

THE INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND ACCURATE TO THE BEST OF PENETONE'S KNOWLEDGE. THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE.