



# SAFETY DATA SHEET

Issue Date 31-Dec-2014

Revision Date 31-Dec-2014

Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

**Product Name** Drain Solve Liquid Caustic Drain Opener

### Other means of identification

**Product Code** 4165-08, 4165-24

**Synonyms** None

### Details of the supplier of the safety data sheet

**Company Name** Nu-Calgon  
2008 Altom Court  
St. Louis, MO 63146  
(800) 554-5449  
<http://www.nucalgon.com/>

### Emergency telephone number

**Emergency Telephone** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                   |                           |
|-----------------------------------|---------------------------|
| Acute toxicity - Oral             | Not classified            |
| Acute toxicity - Dermal           | Not classified            |
| Skin corrosion/irritation         | Category 1 Sub-category A |
| Serious eye damage/eye irritation | Category 1                |

### Label elements

#### Emergency Overview

# Danger

#### Hazard statements

Causes severe skin burns and eye damage  
Harmful to aquatic life with long lasting effects



**Appearance** Clear

**Physical state** Liquid

**Odor** Odorless

**Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid release to the environment

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician  
Specific Treatment (See Section 4 on the SDS)  
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  
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: Rinse mouth. DO NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)****Other Information**

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name    | CAS No.   | Weight-% | Trade Secret |
|------------------|-----------|----------|--------------|
| Water            | 7732-18-5 | 60-100   | *            |
| Sodium Hydroxide | 1310-73-2 | 10-30    | *            |

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

**4. FIRST AID MEASURES****First aid measures**

|   |  |
|---|--|
| <b>General advice</b>                     | Immediate medical attention is required.   |
| <b>Skin Contact</b>                       | Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.   |
| <b>Eye contact</b>                        | Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.  |
| <b>Inhalation</b>                         | Remove to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.   |
| <b>Ingestion</b>                          | Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately. |
| <b>Self-protection of the first aider</b> | Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.  |

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Any additional important symptoms and effects are described in Section 11: Toxicology Information.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** Caution: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions**

**Environmental precautions** Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Advice on safe handling** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

**Incompatible materials** Incompatible with strong acids and bases. Incompatible with oxidizing agents. Strong acids. Aluminum.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines**

| Chemical Name                 | ACGIH TLV                    | OSHA PEL   | NIOSH IDLH   |
|-------------------------------|------------------------------|--|--|
| Sodium Hydroxide<br>1310-73-2 | Ceiling: 2 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup><br>(vacated) Ceiling: 2 mg/m <sup>3</sup> | IDLH: 10 mg/m <sup>3</sup><br>Ceiling: 2 mg/m <sup>3</sup> |

NIOSH IDLH Immediately Dangerous to Life or Health

**Other Information** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Appropriate engineering controls**

**Engineering Controls** Showers, Eyewash stations & Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene** Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Avoid breathing (dust, vapor, mist, gas). Use personal protective equipment as required. Take off all contaminated clothing and wash it before reuse. Wash face, hands and any exposed skin thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Physical state** Liquid  
**Appearance** Clear  
**Color** Colorless  
**Odor** Odorless  
**Odor threshold** No Information available

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|-----------------|---------------|-------------------------|
|-----------------|---------------|-------------------------|

|                               |                          |
|-------------------------------|--------------------------|
| pH                            | 13.5 +                   |
| Specific Gravity              | 1.35                     |
| Viscosity                     | < 25 cP @ 25°C           |
| Melting point/freezing point  | No Information available |
| Flash point                   | None                     |
| Boiling point / boiling range | EST 290 ° F              |
| Evaporation rate              | No Information available |
| Flammability (solid, gas)     |                          |
| Flammability Limits in Air    |                          |
| Upper flammability limit:     | No Information available |
| Lower flammability limit:     | No Information available |
| Vapor pressure                | No Information available |
| Vapor density                 | No Information available |
| Water solubility              | Complete                 |
| Partition coefficient         | No Information available |
| Autoignition temperature      | No Information available |
| Decomposition temperature     | No Information available |

**Other Information**

|                 |       |
|-----------------|-------|
| Density Lbs/Gal | 11.25 |
| VOC Content (%) | 0%    |

**10. STABILITY AND REACTIVITY****Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Exposure to air or moisture over prolonged periods.

**Incompatible materials**

Incompatible with strong acids and bases. Incompatible with oxidizing agents. Strong acids. Aluminum.

**Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

|                            |   |
|----------------------------|---|
| <b>Product Information</b> | The primary effects and toxicity of this material are due to its corrosive nature.                                |
| <b>Inhalation</b>          | Inhalation of vapors in high concentration may cause severe irritation or burns to the respiratory tract.         |
| <b>Eye contact</b>         | Corrosive to the eyes and may cause severe damage including blindness.  |
| <b>Skin Contact</b>        | Corrosive. Contact with skin may cause severe irritation and burns.   |
| <b>Ingestion</b>           | Ingestion causes acute irritation and burns to the mucous membranes of the mouth, trachea, esophagus and stomach. |

| Chemical Name                 | Oral LD50          | Dermal LD50             | Inhalation LC50 |
|-------------------------------|--------------------|-------------------------|-----------------|
| Water<br>7732-18-5            | > 90 mL/kg ( Rat ) | Yes                     | Yes             |
| Sodium Hydroxide<br>1310-73-2 | Yes                | = 1350 mg/kg ( Rabbit ) | Yes             |

**Information on toxicological effects**

**Symptoms** No Information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No Information available.  
**Germ cell mutagenicity** No Information available.  
**Carcinogenicity** No Information available.  
**Reproductive toxicity** No Information available.  
**STOT - single exposure** No Information available.  
**STOT - repeated exposure** No Information available.  
**Chronic toxicity** Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects.  
**Target organ effects** EYES, Respiratory system, Skin.  
**Aspiration hazard** No Information available.

**Numerical measures of toxicity - Product Information**

**Unknown Acute Toxicity** 0% of the mixture consists of ingredient(s) of unknown toxicity  
**The following values are calculated based on chapter 3.1 of the GHS document** .

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name                 | Algae/aquatic plants | Fish   | Crustacea |
|-------------------------------|----------------------|--|-----------|
| Sodium Hydroxide<br>1310-73-2 | Yes                  | 45.4: 96 h Oncorhynchus mykiss<br>mg/L LC50 static | Yes       |

**Persistence and degradability**

No Information available.

**Bioaccumulation**

No Information available.

**Other adverse effects**

No Information available

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name                 | California Hazardous Waste Status |
|-------------------------------|-----------------------------------|
| Sodium Hydroxide<br>1310-73-2 | Toxic<br>Corrosive                |

#### 14. TRANSPORT INFORMATION

This corrosive material, as per 49 CFR §173.154 and when the product meets the packaging requirements of 49 CFR §173.154 (b)(2) [inner packagings not over 5.0 L (1.3 gallons) net capacity each for liquid] is excepted from labeling and placarding requirements so long as the material is not offered for transport by aircraft

|  |   |
|--|---|
| <b>DOT</b>                             | Regulated   |
| <b>UN/ID No.</b>                       | UN3266  |
| <b>Proper shipping name</b>            | Corrosive liquid, basic, inorganic, n.o.s.  |
| <b>Hazard Class</b>                    | 8   |
| <b>Packing Group</b>                   | II  |
| <b>Special Provisions</b>              | B2, IB2, N34, T7, TP2   |
| <b>Description</b>                     | UN3266, Corrosive liquid, basic, inorganic, n.o.s. (contains Sodium Hydroxide), 8, II |
| <b>Emergency Response Guide Number</b> | 154   |

|                             |   |
|-----------------------------|---|
| <b>TDG</b>                  |   |
| <b>UN/ID No.</b>            | UN3268  |
| <b>Proper shipping name</b> | Corrosive liquid, basic, inorganic, n.o.s.  |
| <b>Hazard Class</b>         | 8   |
| <b>Packing Group</b>        | II  |
| <b>Description</b>          | UN3266, Corrosive liquid, basic, inorganic, n.o.s. (contains Sodium Hydroxide), 8, II |

#### 15. REGULATORY INFORMATION

##### International Inventories

|                 |          |
|-----------------|----------|
| <b>TSCA</b>     | Complies |
| <b>DSL/NDSL</b> | Complies |

##### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

##### US 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 Hazard Categories

|  |     |
|--|-----|
| <b>Acute health hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | Yes |
| <b>Fire hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

##### 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)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|

|                               |         |     |     |   |
|-------------------------------|---------|-----|-----|---|
| Sodium Hydroxide<br>1310-73-2 | 1000 lb | Yes | Yes | X |
|-------------------------------|---------|-----|-----|---|

**CERCLA**

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)

| Chemical Name                 | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                  |
|-------------------------------|--------------------------|----------------|---|
| Sodium Hydroxide<br>1310-73-2 | 1000 lb                  | Yes            | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

| Chemical Name                 | New Jersey | Massachusetts | Pennsylvania |
|-------------------------------|------------|---------------|--------------|
| Sodium Hydroxide<br>1310-73-2 | X          | X             | X            |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not Applicable

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

|                    |                  |                |                    |                                      |
|--------------------|------------------|----------------|--------------------|--------------------------------------|
| <b><u>NFPA</u></b> | Health hazards 3 | Flammability 0 | Instability 0      | Physical and Chemical Properties Yes |
| <b><u>HMIS</u></b> | Health hazards 3 | Flammability 0 | Physical hazards 0 | Personal protection D                |

Issue Date 31-Dec-2014

Revision Date 31-Dec-2014

**Revision Note**

No Information available

**Disclaimer**

The information provided in this 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 is 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**





## MATERIAL SAFETY DATA SHEET

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

|  |   |  |  |   |
|--|---|--|--|---|
| <b><u>Company Name</u></b><br>Nu-Calgon Wholesaler, Inc. | <b><u>Phone Number</u></b><br>(314) 469-7000 / (800) 554-5499 |  | <b><u>CHEMTREC</u></b><br>(800) 424-9300 |   |
| <b><u>Street Address</u></b><br>2008 Altom Court         | <b><u>City</u></b><br>St. Louis                               | <b><u>State</u></b><br>MO                                  | <b><u>Postal Code</u></b><br>63146-4151  | <b><u>Last Update</u></b><br>11/9/06    |
| <b><u>Product Name</u></b><br>Drain-Solve                | <b><u>Product Number</u></b><br>4165                          | <b><u>Product Use</u></b><br>Liquid caustic drain cleaner. |  | <b><u>EPA Registration #</u></b><br>N/A |

### SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

| <b>Hazardous Ingredients</b> | <b>% By Wt.</b> | <b>CAS Number</b> | <b>TLV</b> | <b>PEL</b> |
|------------------------------|-----------------|-------------------|------------|------------|
| Sodium Hydroxide             | 35-45%          | 1310-73-2         | 2 ppm      | 2 ppm      |
|                              |                 |                   |            |            |
|                              |                 |                   |            |            |

### SECTION 3 – HAZARD IDENTIFICATION

**Emergency Overview:** Overexposure to product has the following effects: Inhalation of vapors may cause pulmonary edema, collapse of circulatory system and damage to the upper respiratory system and collapse. Inhalation may cause coughing, throat burning, choking, bronchitis and difficult breathing. Ingestion is harmful and may be fatal. Ingestion may cause burns.

#### **Potential Health Effects**

**Eyes:** Corrosive. Causes eye damage. Wear splash proof goggles. Provide convenient eyewash stations. Flush immediately with water for 15 minutes. Get prompt medical attention.

**Skin:** Corrosive. Causes irritation and burns. Wear alkali-resistant protective gloves, boots, and clothing. Provide convenient safety showers. Remove contaminated clothing. Flush skin thoroughly with water for 15 minutes. Get medical attention if burns persist.

**Ingestion:** Corrosive. Causes irritation and burning in mouth, esophagus, throat and stomach. Avoid swallowing. Can be fatal. Drink lots of water or, preferably, milk. Get medical attention. Do not induce vomiting.

**Inhalation:** Breathing of mists causes respiratory irritation and can cause burns. Wear approved alkali mist respirator if exposure is likely. Remove to fresh air. Give artificial respiration or oxygen if needed. Get prompt medical attention.

**Chronic Exposure:** EYES & SKIN: Corrosive to tissues. Causes burns to eyes and skin. INGESTION: Harmful if swallowed. Burns to mouth, throat and stomach are likely. INHALATION: Mists may cause coughing and irritation to respiratory tract.

**Carcinogenicity:** No Data.

**Medical Conditions Aggravated by Exposure:** No Data.

### SECTION 4 – FIRST AID MEASURES

**Eyes:** Flush immediately with water for 15 minutes. Get prompt medical attention.

**Skin:** Wear alkali-resistant protective gloves, boots, and clothing. Provide convenient safety showers. Remove contaminated clothing. Flush skin thoroughly with water for 15 minutes. Get medical attention if burns persist.

**Ingestion:** Drink lots of water or, preferably, milk. Get medical attention if effects persist. Do not induce vomiting.

**Inhalation:** Wear approved alkali vapor/mist respirator if exposure is likely. Remove to fresh air. Give artificial respiration or oxygen if needed. Get prompt medical attention.

### SECTION 5 – FIREFIGHTING MEASURES

**Flash Point:** No Data. °F

**Autoignition Temp:** No Data. °C/No Data. °F

**Hazardous Products of Combustion:** No Data.

**Flammable Limits in Air:** No Data.

**Extinguishing Media:** Avoid skin and eye contact, and breathing of vapors. Wear head and body protection and alkali respirator if exposure to liquid is likely.

**Fire and Explosion Hazards:** This product can react with metals to release flammable gas. Firemen may need to protect against this.

**Special Firefighting Procedures:** Avoid skin and eye contact, and breathing of vapors. Wear head and body protection and alkali respirator if exposure to liquid is likely. Avoid strong acid and material that is not resistant to strong alkalis such as active metals (zinc, aluminum, magnesium, etc.)

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Spill or Leak:** Small spills can be flushed into normal drainage or into ground with copious amounts of water, or taken up with absorbent material. Larger spills should be contained by dike or other methods and held for collection and/or reuse, or for neutralization with acid before collection & disposal. People should use eye and skin protection & respirator.

## SECTION 7 – HANDLING AND STORAGE

**Handling Procedures and Equipment:** Check daily for any leaks from containers, vessels, pumps, and piping. Have water hoses and acid convenient to neutralize. Only use containers and equipment designed for alkali service.

**Storage Requirements:** Areas of use and storage should be ventilated adequately to reduce vapors below odor level.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection:** A NIOSH - approved respirator for alkali is recommended.

**Eye Protection:** Full face shield or goggles.

**Protective Clothing:** Protective clothing and gloves.

**Exposure Guidelines:** No Data.

**Specific Engineering Controls (such as ventilation, enclosed process):** Do not get in eyes, on skin or clothing. Avoid breathing vapor or mist. Keep container closed. Wash thoroughly after handling. Wash clothing after exposure/use.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

|   |  |  |
|---|--|--|
| <b>Physical Form:</b> Clear Liquid          | <b>Freezing Point:</b> No Data.°C/No Data.°F | <b>% Volatile by Weight:</b> No Data.% |
| <b>Color:</b> Colorless                     | <b>Vapor Density [air =1]:</b> No Data.      | <b>Evaporation Rate:</b> No Data.      |
| <b>Odor:</b> None - Mild                    | <b>Vapor Pressure:</b> No Data.              | <b>Specific Gravity:</b> 1.35          |
| <b>Boiling Point:</b> No Data.°C/No Data.°F | <b>Solubility in Water:</b> Complete         | <b>pH (concentrate):</b> > 13          |

## SECTION 10 – STABILITY AND REACTIVITY

**Chemical Stability:** Stable at normal temperatures and storage conditions.

**Hazardous Polymerization:** Does not occur

**Incompatibilities:** strong acids, materials not resistant to strong alkalis, active metals (zinc, aluminum, magnesium, etc.).

**Reactive Conditions to avoid:** Acidic materials, materials not resistant to strong alkalis Strong oxidizers and metals..

**Decomposition Products:** Contact with metals may generate Hydrogen, which can be explosive.

## SECTION 11 – TOXICOLOGICAL INFORMATION

| <b>Hazardous Ingredients</b> | <b>CAS #</b> | <b>EINECS #</b> | <b>LD 50 of Ingredient</b><br>(Specify Species) | <b>LC50 of Ingredient</b><br>(Specify Species) |
|------------------------------|--------------|-----------------|---|--|
| Sodium Hydroxide             | 1310-73-2    | No Data.        | 40 MG/KG  | 189 PPM (Rat)                                  |
|                              |              |                 |   |  |
|                              |              |                 |   |  |
|                              |              |                 |   |  |

## SECTION 12 – ECOLOGICAL INFORMATION

| <b>Hazardous Ingredients</b> | <b>Aquatic Toxicity Data</b>                           |
|------------------------------|--|
| Sodium Hydroxide             | This material is expected to be toxic to aquatic life. |
|                              |  |
|                              |  |
|                              |  |

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Dispose of in accordance with local, state and federal regulations.

**SECTION 14 – TRANSPORTATION INFORMATION**

**Special Shipping Information:** No Data.

| <u>Purview</u>        | <u>Proper Shipping Name</u>   | <u>UN Number</u> | <u>Packing Group</u> | <u>Hazard Class</u> |
|-----------------------|---|------------------|----------------------|---------------------|
| <b>DOT</b><br>(Land)  | CORROSIVE LIQUID, BASIC,<br>INORGANIC, N.O.S., (CONTAINS SODIUM<br>HYDROXIDE) | UN3266           | II                   | 8                   |
| <b>IMO</b><br>(Water) | No Data.  | No Data.         | No Data.             | No Data.            |
| <b>ICAO</b><br>(Air)  | No Data.  | No Data.         | No Data.             | No Data.            |

**SECTION 15 – REGULATORY INFORMATION**

|  |   |
|--|---|
| <b>WHMIS Classification:</b> (Workplace Hazardous Material Information System)     | Class E - Corrosive Material.   |
| <b>SARA Title III:</b> (Superfund Amendments & Reauthorization Act)                | No Data.  |
| <b>OSHA:</b> (Occupational Safety & Health Administration)                         | No Data.  |
| <b>TSCA:</b> (Toxic Substance Control Act)   | No Data.  |
| <b>VOC:</b> (volatile Organic Compounds)   | No VOCs.  |
| <b>CPR:</b> (Canadian Controlled Products Regulations)                             | This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations. |
| <b>EINECS:</b> (European Inventory of Existing Commercial Chemical Substances)     | No Data.  |
| <b>DSL / NDSL:</b> (Canadian Domestic Substance List)(Non-Domestic Substance List) | No Data.  |
| <b>CERCLA:</b> (Comprehensive Response Compensation & Liability Act)               | No Data.  |
| <b>IDL:</b> (Canadian Ingredient Disclosure List)                                  | No Data.  |
| <b>NFPA (HMIS) Rating:</b> (Hazardous Materials Identification System)             | No Data.  |

**SECTION 16 – OTHER INFORMATION**

No Data.

The information contained herein is based on the data available to us and is believed to be correct. However, Nu-Calgon Wholesaler Inc. makes no warranty, expressed, or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Nu-Calgon Wholesaler Inc. assumes no liability for injury from the use of the product described herein.