

## Safety Data Sheet: **N-400 Reducer Solution**

### Section 1: Identification

Product Name:	N-400 Reducer Solution
Manufacturer's Name:	Peacock Laboratories
Address:	1901 S. 54th Street
City, State, Zip:	Philadelphia, PA, 19143
Phone Number:	(215)-729-4000
Emergency Contact:	(215)-729-4000
Chemtrec:	(800)-424-9300

### Section 2: Hazards Identification

#### *2.1 Classification of the Substance or Mixture*

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225

Skin irritation (Category 2), H315

Reproductive toxicity (Category 2), H361

Specific target organ toxicity-single exposure (Category 3), Central Nervous System, H336

Specific target organ toxicity-repeated exposure (Category 2), H373

Aspiration hazard (Category 1), H304

Acute aquatic toxicity (Category 2)

For the full text of the H-Statements mentioned in this section, see Section 16.

#### *2.2 Label Elements*

Hazard Pictograms (GHS-US)



**Signal Word (GHS-US):** Danger

**Hazard Statements (GHS-US):**

**H225:** Highly flammable liquid and vapour.

**H304:** May be fatal if swallowed and enters airways.

**H315:** Causes skin irritation.

**H336:** May cause drowsiness or dizziness.

**H361:** Suspected of damaging fertility or the unborn child.

**H373:** May cause damage to organs through prolonged or repeated exposure.

**H401:** Toxic to aquatic life.

**Precautionary Statements****[Prevention]**

**P201:** Obtain special instructions before use.

**P202:** Do not handle until all safety precautions have been read and understood.

**P210:** Keep away from heat/sparks/open flames/hot surfaces. No smoking.

**P233:** Keep container tightly closed.

**P240:** Ground/bond container and receiving equipment.

**P241:** Use explosion-proof electrical/ventilating/lighting/equipment.

**P242:** Use only non-sparking tools.

**P243:** Take precautionary measures against static charge.

**P260:** Do not breathe dust/fumes/gas/mist/vapors/spray.

**P264:** Wash thoroughly after handling.

**P271:** Use only outdoors or in a well-ventilated area.

**P273:** Avoid release to the environment.

**P280:** Wear protective gloves/clothing/eye protection/face protection.

**[Response]**

**P301+310:** *IF SWALLOWED* , immediately call a POISON CENTER or doctor/physician.

**P303+P361+P353:** *IF ON SKIN OR HAIR* , take off immediately all contaminated clothing.

Rinse skin with water, or shower. Call a POISON CENTER or doctor/physician if you feel unwell.

**P304+P340+P312:** *IF INHALED* , move the person to fresh air and keep comfortable for breathing.

**P308+ P313:** IF EXPOSED OR CONCERNED, seek medical advice/attention.

**P331:** DO NOT induce vomiting.

**P332 +P313:** If skin irritation occurs, seek medical advice/attention.

**P362:** Remove contaminated clothing and wash before reuse.

**P370+P378:** *IN THE EVENT OF A FIRE* , use dry sand, dry chemical, or alcohol-resistant foam to extinguish.

#### **[Storage]**

**P403+P233:** Store in a well-ventilated place. Keep container tightly closed.

**P403+P235:** Store in a well-ventilated place. Keep cool.

**P405:** Store locked up.

#### **[Disposal]**

**P501:** Dispose of contents/container in accordance with local/national regulations.

#### *2.3 Other Hazards*

No additional information.

### Section 3: Composition

<b>Hazardous Ingredients</b>	<b>CAS #</b>	<b>% by Weight</b>
Sodium Hydroxide	1310-73-2	5-10%
Ammonia Hydroxide	1336-21-6	5-25%

### Section 4: First Aid Measures

#### *4.1 Description of First Aid Measures*

**GENERAL ADVICE:** In all cases of doubt, or when symptoms persist, consult a physician. Show this safety data sheet to the doctor in attendance.

**INHALATION:** Move to fresh air, and keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration or oxygen as needed. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

**EYES:** Remove contact lenses if wearing them, and/or flush eyes copiously with clean water for at least 30 minutes, holding the eyelids apart. Seek medical attention.

**SKIN:** Remove contaminated clothing. Immediately wash skin with plenty of soap and water for 15 minutes. Call physician. Wash contaminated clothing before reuse.

**INGESTION:** DO NOT INDUCE VOMITING. Get medical attention immediately. If vomiting occurs, keep head below hips to prevent aspiration into lungs.

#### Section 5: Fire Fighting Procedures

**Flash Point:** Not available.

**Flammable Limits in Air % by Volume:** Ammonia - LEL: 16%; UEL: 25%.

**Auto-Ignition Temperature:** Not available.

\*Flammable liquid and vapor. Vapors may migrate to ignition source and cause flash fire. Isolate from heat, sparks, electrical equipment, appliances, pilot lights, and other sources of ignition.

**Extinguisher Media :** Use water spray, carbon dioxide, dry chemical.

**Special Fire Fighting Procedures :** Use NIOSH/MSHA-approved gas mask for fire fighting personnel. Water may be used to cool containers. If water is used, fog nozzles are preferred.

#### Section 6: Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Contain and recover liquid when possible.

Use non-sparking tools and equipment. In case of spillage, absorb with inert material (such as vermiculite, dry sand, or earth) and place in a waste chemical container. Dispose of in accordance with regulations of EPA and other local, state, and federal authorities.

Do not use combustible materials, such as sawdust. Do not flush to sewer.

If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures. US regulations require reporting spills and releases to water, soil and water in excess of reportable quantities.

#### Section 7: Handling & Storage

**Precautions to be Taken in Handling and Storage :** Store in a cool, dry, well-ventilated location away from heat, sparks, and open flame(s). ALL equipment used when handling this product must be grounded. Empty container may retain hazardous properties and can be dangerous. Avoid prolonged skin contact. DO NOT breathe spray mist.

**Waste Disposal Methods (Consult Local, State, and Federal Regulations):** Place in closed containers. Dispose of product in accordance with local, state, and federal regulations.

## Section 8: Exposure Controls/Personal Protection

### *8.1 Engineering Controls*

Both local exhaust and good general room ventilation must be provided, not only to control exposure, but also prevent the formation of flammable mixtures.

### *8.2 Personal Protection*

**Respiratory Protection:** 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.

**Protective Gloves:** Chemical-resistant gloves, such as butyl rubber, nitrile, or teflon.

**\*\*Depending on the conditions of use, apron(s), boots, and head/face protection should be worn. ALL EQUIPMENT should be thoroughly cleaned after use.**

**Eye Protection:** Use splash goggles when eye contact due to splashing or spraying liquid is possible.

**Work/Hygienic Practices:** Wash hands well after handling; have shower and eye bath available. Do not get on clothing.

## Section 9: Physical and Chemical Properties

**Appearance and Odor:** Clear liquid; ammonia odor

**Boiling Point:** Between 180-200 °F

**Melting Point:** Not available

**Specific Gravity (water = 1):** 1.13

**Vapor Pressure:** Not available

**Vapor Density (air = 1):** Not available

**Solubility in Water:** Complete

**VOC:** None

**% Solids:** Not available

\*The above data are approximate or typical values and *should not* be used for precise design purposes.

#### Section 10: Stability and Reactivity Data

**Stability:** Stable

**Materials to Avoid (Incompatibility):** Strong acids and most metals.

**Conditions to Avoid:** Acids, metals. VERY corrosive to skin/clothes.

**Hazardous Decomposition Products:** Hydrogen may be formed.

**Hazardous Polymerization:** Will not occur.

#### Section 11: Toxicological Information

No information available.

#### Section 12: Ecological Information

**Mobility:** Spillages may penetrate the soil causing groundwater contamination. This material may accumulate in sediments.

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** Potentially bioaccumulate.

**Aquatic Toxicity:** Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

#### Section 13: Disposal Considerations

**Product Disposal:** Dispose of in accordance with all applicable federal, state, and local regulations. This product may produce hazardous vapors in a closed disposal container, thus creating a dangerous environment. Refer to “40 CFR Protection of Environmental Protection Agency” before disposing of any chemicals. Do not flush to sanitary sewers or waterways.

#### Section 14: Transport Information

**Proper Shipping Name:** SODIUM HYDROXIDE SOLUTION

**UN No.:** UN-1824

**PG:** II

#### Section 15: Regulatory Information (SARA 302 Components)

**OSHA Hazards**

Flammable liquid, toxic by inhalation.

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** 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.

**SARA 311/312 Hazards:** Fire Hazard, Acute Health Hazard

**California Prop. 65 Components:** This product does not contain any chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

### Section 16: Other Information

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute, Acute aquatic toxicity

Asp. Tox. Aspiration hazard

Flam Liq. Flammable liquids

Repr. Reproductive toxicity

Skin Irrit. Skin irritation

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H401 Toxic to aquatic life.

### **HMIS Rating**

Health Hazard: 2

Chronic Health Hazard: N/A

Flammability: 3

Physical Hazard: 0

### **NFPA Rating**

Health Hazard: 2



Fire Hazard: 3 Reactivity Hazard: 1

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