

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** Two in One  
**Version #** 6.1  
**Revision date** 07-04-2015  
**CAS #** Mixture  
**Product use** professional use  
**Manufacturer**  
**Company name** Henny Penny Corporation  
**Address** P.O. Box 60  
Eaton, OHIO 45320  
**Telephone number** 1 937 456.8400  
**Fax** 1 937 456.8434  
**Contact person**  
**Telephone number**  
**E-mail**  
**Emergency telephone number** (001) 352 323 3500

## 2. Hazards Identification

**Emergency overview** DANGER  
May be corrosive to metals. Corrosive. Causes severe skin burns and eye damage.

**OSHA regulatory status** This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

**Potential health effects**  
**Routes of exposure** Inhalation. Ingestion. Skin contact. Eye contact.  
**Eyes** Causes eye burns. Risk of serious damage to eyes. Do not get this material in contact with eyes.  
**Skin** Causes skin burns. Do not get this material in contact with skin.  
**Inhalation** Causes burns. Prolonged inhalation may be harmful. Do not breathe dust/fume/gas/mist/vapors/spray.  
**Ingestion** Components of the product may be absorbed into the body by ingestion. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. Do not ingest.

**Target organs** Eyes. Skin.  
Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

**Chronic effects** May be harmful if absorbed through skin.

**Potential environmental effects** Components of this product are hazardous to aquatic life. May cause long-term adverse effects in the environment.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
SODIUM HYDROXIDE	1310-73-2	50 - 100
SODIUM CARBONATE	497-19-8	2.5 - 10

## 4. First Aid Measures

### First aid procedures

<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
<b>Skin contact</b>	Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
<b>Inhalation</b>	Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.
<b>Ingestion</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Never give anything by mouth to a victim who is unconscious or is having convulsions. Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

### Notes to physician

In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be delayed.

### General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Immediate medical attention is required. In case of shortness of breath, give oxygen. Keep victim warm.

## 5. Fire Fighting Measures

### Flammable properties

The product is not flammable. No unusual fire or explosion hazards noted.

### Extinguishing media

<b>Suitable extinguishing media</b>	Dry powder. Carbon dioxide (CO <sub>2</sub> ). Alcohol resistant foam.
<b>Unsuitable extinguishing media</b>	Do not use water jet.

### Protection of firefighters

<b>Protective equipment and precautions for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
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### Fire fighting equipment/instructions

Use water spray to cool unopened containers. Water runoff can cause environmental damage.

### Hazardous combustion products

## 6. Accidental Release Measures

### Personal precautions

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

### Methods for cleaning up

Should not be released into the environment. Following product recovery, flush area with water. For waste disposal, see section 13 of the MSDS.

## 7. Handling and Storage

### Handling

Minimize dust generation and accumulation. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Avoid release to the environment. Handle and open container with care.

### Storage

Keep tightly closed in a dry and cool place. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value
SODIUM HYDROXIDE (1310-73-2)	Ceiling	2 mg/m <sup>3</sup>

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
SODIUM HYDROXIDE (1310-73-2)	PEL	2 mg/m <sup>3</sup>

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

**Eye / face protection** Do not get in eyes. Chemical goggles are recommended. Face-shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin protection** Do not get this material in contact with skin. Do not get this material on clothing. Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations. Chemical resistant gloves.

**Hand protection** Wear protective gloves. Rubber (natural, latex).

**Respiratory protection** Do not breathe dust/fume/gas/mist/vapors/spray. Dust filter P3 (for especially fine dust/powder).

**General hygiene considerations** When using, do not eat, drink or smoke. Do not get in eyes. Do not get this material in contact with skin. Do not get this material on clothing. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

**Appearance** Not available.

**Physical state** Solid.

**Form** Granular.

**Color** White.

**Odor** Odorless.

**Odor threshold** Not available.

**pH** 13.2 @ 5%

**Vapor pressure** Not available.

**Vapor density** Not available.

**Boiling point** Not available.

**Melting point/Freezing point** Not available.

**Solubility (water)** soluble

**Specific gravity** Not available.

**Relative density** Not available.

**Flash point** Not available.

**Flammability limits in air, upper, % by volume** Not available.

**Flammability limits in air, lower, % by volume** Not available.

**Auto-ignition temperature** Not available.

**Bulk density** 0.74 g/cm<sup>3</sup>

## 10. Chemical Stability & Reactivity Information

**Chemical stability** Material is stable under normal conditions.

**Conditions to avoid** None under normal conditions.

**Incompatible materials** May be corrosive to metals.

**Hazardous decomposition products**

**Possibility of hazardous reactions** Hazardous polymerization does not occur.

**11. Toxicological Information****Toxicological data****Components****Test Results**

SODIUM HYDROXIDE (1310-73-2)

Acute Other LD50 Mouse: 40 mg/kg

SODIUM CARBONATE (497-19-8)

Acute Oral LD50 Rat: 4090 mg/kg

Acute Other LD50 Mouse: 116.6 mg/kg 30 Days

**Acute effects**

Causes burns.

**Local effects**

Causes severe burns.

**Chronic effects**

Hazardous by OSHA criteria. Prolonged inhalation may be harmful. May be harmful if absorbed through skin. Prolonged exposure may cause chronic effects.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

**Carcinogenicity**

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs. Overall Evaluation of Carcinogenicity****Skin corrosion/irritation**

Hazardous by OSHA criteria.

**12. Ecological Information****Ecotoxicological data****Components****Test Results**

SODIUM HYDROXIDE (1310-73-2)

EC50 Water flea (Ceriodaphnia dubia): 34.59 - 47.13 mg/l 48 hours

LC50 Western mosquitofish (Gambusia affinis): 125 mg/l 96 hours

SODIUM CARBONATE (497-19-8)

EC50 Water flea (Ceriodaphnia dubia): 156.6 - 298.9 mg/l 48 hours

LC50 Bluegill (Lepomis macrochirus): 300 mg/l 96 hours

**Ecotoxicity**

Components of this product are hazardous to aquatic life. Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

**Environmental effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**13. Disposal Considerations****Waste codes**

D002: Waste Corrosive material [pH  $\leq$ 2 or  $\geq$ 12.5, or corrosive to steel]

**Disposal instructions**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

**Waste from residues / unused products**

Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the ground.

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport Information

### DOT

#### Basic shipping requirements:

UN number	UN1823
Proper shipping name	Sodium hydroxide, solid, mixture
Hazard class	8
Packing group	II
Environmental hazards	
Marine pollutant	Yes
Limited quantities:	LQ 23
Additional information:	
Special provisions	IB8, IP2, IP4, T3, TP33
Packaging exceptions	154
Packaging non bulk	212
Packaging bulk	240
ERG number	154

## 15. Regulatory Information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are listed in TSCA

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))**  
Not regulated

**DEA Essential Chemical Code Number**  
Not regulated

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**  
Not regulated

**DEA Exempt Chemical Mixtures Code Number**  
Not regulated

### CERCLA (Superfund) reportable quantity

SODIUM HYDROXIDE: 1000

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** No

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**US - New Jersey RTK - Substances: Listed substance**

SODIUM HYDROXIDE (CAS 1310-73-2) Listed.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

SODIUM HYDROXIDE (CAS 1310-73-2) Listed.

**16. Other Information**

**Further information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings** Health: 4\*  
Flammability: 0  
Physical hazard: 1

**NFPA ratings** Health: 3  
Flammability: 0  
Instability: 1

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently available.

**Issue date** Not available.

**This data sheet contains changes from the previous version in section(s):** Product and Company Identification: Product and Company Identification  
Composition / Information on Ingredients: Ingredients  
Physical & Chemical Properties: Multiple Properties  
Transport Information: Material Transportation Information