

# Safety Data Sheet



Superior Solutions

Zep, Inc.  
1310 Seaboard Industrial Blvd.  
Atlanta, GA 30318  
1-877-I-BUY-ZEP (428-9937)  
www.zep.com

## Section 1. Chemical Product and Company Identification

**Product name** MILDEW STAIN REMOVER  
**Product use** Cleaner.  
**Product code** 1472  
**Date of issue** 02/16/12 **Supersedes** 10/20/05

### Emergency Telephone Numbers

#### For MSDS Information:

Compliance Services 1-877-I-BUY-ZEP (428-9937)

#### For Medical Emergency

(877) 541-2016 Toll Free - All Calls Recorded

#### For Transportation Emergency

CHEMTREC: (800) 424-9300 - All Calls Recorded

In the District of Columbia (202) 483-7616

#### Prepared By

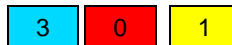
Compliance Services  
1420 Seaboard Industrial Blvd.  
Atlanta, GA 30318

## Section 2. Hazards Identification

### Emergency overview

\*Hazard Determination System (HDS): Health, Flammability, Reactivity

**DANGER!**



CAUSES EYE, SKIN AND MUCOUS MEMBRANE BURNS.  
HARMFUL OR FATAL IF SWALLOWED.

**NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.**

### Acute Effects

#### Routes of Entry

Dermal contact. Eye contact. Inhalation.

#### Eyes

Causes eye burns. Direct contact may cause irritation and redness. Inflammation of the eye is characterized by redness, watering and itching.

#### Skin

Causes skin burns. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.

#### Inhalation

Inhalation of the spray or mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath. Liquid, spray or mist may produce tissue damage, particularly to mucous membranes of eyes, mouth and respiratory tract.

#### Ingestion

Harmful or fatal if swallowed. May cause burns to mouth, throat and stomach.

### Chronic effects

Contains material which may cause damage to the following organs: upper respiratory tract, skin, eye, lens or cornea.

### Carcinogenicity

No known significant effects or critical hazards.

### Product/ingredient name

Not available.

**Additional Information: See Toxicological Information (Section 11)**

## Section 3. Composition/Information on Ingredients

### Name of Hazardous Ingredients

### CAS number

### % by Weight

Sodium hypochlorite solution Cl active

7681-52-9

5 - 15

sodium hydroxide

1310-73-2

1 - 5

## Section 4. First Aid Measures

### Eye Contact

Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

### Skin Contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

### Inhalation

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

**Ingestion** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A.)



**Flash Point** Not applicable.

**Flammable Limits** Not applicable.

**Flammability** Non-combustible.

**Fire hazard** In a fire or if heated, a pressure increase will occur and the container may burst.

**Fire-Fighting Procedures** Use an extinguishing agent suitable for the surrounding fire.

### Section 6. Accidental Release Measures

**Spill Clean up** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Section 7. Handling and Storage

**Handling** Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure Controls/Personal Protection

#### Product name

Sodium hypochlorite solution Cl active

sodium hydroxide

#### Exposure limits

AIHA WEEL (United States, 5/2010).

STEL: 2 mg/m<sup>3</sup> 15 minute(s).

ACGIH TLV (United States, 2/2010).

C: 2 mg/m<sup>3</sup>

OSHA PEL 1989 (United States, 3/1989).

CEIL: 2 mg/m<sup>3</sup>

NIOSH REL (United States, 6/2009).

CEIL: 2 mg/m<sup>3</sup>

OSHA PEL (United States, 6/2010).

TWA: 2 mg/m<sup>3</sup> 8 hour(s).

#### Personal Protective Equipment (PPE)

**Eyes** Recommended: Splash goggles.

**Body** Recommended: Gloves



**Respiratory** Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate.

### Section 9. Physical and Chemical Properties

**Physical State** Liquid. [Clear.]

**pH** 12.5 to 13

**Boiling Point** 100°C (212°F)

**Specific Gravity** 1.08

**Solubility** Easily soluble in the following materials: cold water and hot water.

**Color** Greenish-yellow [Light]

**Odor** Fresh

**Vapor Pressure** Not available.

**Vapor Density** Not available.

**Evaporation Rate** 1 (Water = 1)

**VOC (Consumer)** 0 g/l [ISO 11890-1]

**Section 10. Stability and Reactivity**

**Stability and Reactivity** The product is stable.

**Incompatibility** Reactive or incompatible with the following materials: organic materials and acids.

**Hazardous Polymerization** Under normal conditions of storage and use, hazardous polymerization will not occur.

**Hazardous Decomposition Products** carbon oxides (CO, CO<sub>2</sub>), Chlorine and Phosgene gas, Hydrogen chloride (HCl).

**Section 11. Toxicological Information****Acute Toxicity**

Not available.

**Section 12. Ecological Information**

**Environmental Effects** Not available.

**Aquatic Ecotoxicity**

sodium hydroxide	-	Acute EC50 40.38 mg/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	-	Acute LC50 125000 ug/L Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours
Sodium hypochlorite solution Cl active	-	Acute EC50 46000 ug/L Marine water	Algae - Red algae - Gracilaria tenuistipitata	4 days
	-	Acute LC50 56400 ug/L Marine water	Crustaceans - Daggerblade grass shrimp - Palaemonetes pugio	48 hours
	-	Acute LC50 32 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute LC50 32 ug/L Marine water	Fish - Coho salmon, silver salmon - Oncorhynchus kisutch - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

**Section 13. Disposal Considerations****Waste Information**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

**Waste Stream** Code: D002  
 Classification: Hazardous waste.  
 Origin: RCRA waste.

**Section 14. Transport Information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
<b>DOT Classification</b>	UN1791	Hypochlorite solutions	-	-	
<b>IMDG Class</b>	-	Not determined.	-	-	

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG\* : Packing group

**Section 15. Regulatory Information****U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

No products were found.

**Clean Water Act (CWA) 311:** sodium hydroxide; Sodium hypochlorite solution Cl active

**Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.

All Components of this product are listed or exempt from listing on TSCA Inventory.

**State Regulations**

**California Prop 65** No products were found.

**Section 16. Other Information**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

*\*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.*