

ISSUE DATE: 1/15/1997

REVISION DATE: 4/15/2015

**1. PRODUCT AND COMPANY IDENTIFICATION****GHS PRODUCT IDENTIFIER:**

TRADE NAME; CHEMSAFE 1600

**OTHER MEANS OF IDENTIFICATION:****RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:**

RECOMMENDED USE: HVAC Coil n Fin cleaner

**SUPPLIER'S DETAILS:**

1480 GRANDVIEW AVE.  
THOROFARE, NJ 08086  
(800)767-6933

**EMERGENCY PHONE NUMBER:**

COMPANY PHONE NUMBER: (800)767-6933

(24HR) EMERGENCY NUMBER: CHEM-TREC (800)424-9300

**2. HAZARD IDENTIFICATION****GHS CLASSIFICATION:**

GHS CLASSIFICATION SCALE: (1=SEVERE HAZARD, 4=SLIGHT HAZARD)

**PHYSICAL HAZARDS:**

CORROSIVE TO METALS

CATEGORY 1

**HEALTH HAZARDS**

ACUTE TOXICITY-ORAL

CATEGORY 4

SKIN CORROSION IRRITATION

CATEGORY 1

SERIOUS EYE DAMAGE IRRITATION

CATEGORY 1

**ENVIRONMENTAL HAZARDS:****LABEL ELEMENTS:****SIGNAL WORD: DANGER****HAZARD STATEMENTS:**

May be corrosive to metals

Harmful if swallowed

Causes severe skin burns and eye damage

Causes serious eye damage

**HAZARD SYMBOLS:****PRECAUTIONARY STATEMENTS:**

Do not breathe fume, mist, vapors or spray.  
 Wash hands, face and all exposed skin areas after handling.  
 Do not eat, drink, or smoke when using this product.  
 Wear protective gloves/protective clothing/eye protection/face protection

**PRECAUTIONARY STATEMENTS (RESPONSE):**

IF SWALLOWED: Rinse mouth. Do not induce vomiting. Immediately call a doctor or physician.

IF ON SKIN or hair: Rinse cautiously with water for several minutes. Rinse skin with water shower. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Immediately call a doctor or physician.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor or physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately call a doctor or physician.

**PRECAUTIONARY STATEMENTS (STORAGE):**

Store in corrosive resistant plastic containers in a well ventilated place. Keep container tightly closed. Store locked up.

**PRECAUTIONARY STATEMENTS (DISPOSAL):**

Dispose of contents/container to an approved waste disposal plant in accordance with applicable local/regional/national and international regulations and product characteristics at time of disposal.

**OTHER HAZARDS:**

Repeated or prolonged exposure can cause skin dryness or cracking.

### 3. COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENT IDENTITY	CAS NUMBER	PERCENTAGE
SODIUM HYDROXIDE	1310-73-2	PROPRIETARY

REMAINING INGREDIENTS ARE NOT REPORTABLE UNDER OSHA/SDS GUIDELINES. THE EXACT PERCENTAGES OF SOME INGREDIENTS HAVE BEEN WITHHELD AS (CBI) CONFIDENTIAL BUSINESS INFORMATION TRADE SECRET.

### 4. FIRST AID MEASURES

INGESTION: If swallowed, call a poison control center immediately. Wash out mouth with water. Do not induce vomiting, If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into the lung. Never give anything by mouth to an unconscious person.

**SKIN CONTACT:** Immediately remove contaminated clothing. Wash with water shower. Wash contaminated clothing before reuse. Call a physician immediately. Chemical burns must be treated by a physician.

**INHALATION:** Move individual away from exposure and into fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician if symptoms develop or persist or if you feel unwell.

**EYE CONTACT:** Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. Permanent damage could result. Timely remedy is of the essence. Immediately get medical attention/advice.

### **Most Important Symptoms and Effects, Acute and Delayed**

**INGESTION:** Symptoms may include diarrhea, gastric pain, and vomiting.

**SKIN CONTACT:** Symptoms may include burning pain, corrosive skin damage, redness, dryness and cracking of skin.

**INHALATION:** Symptoms may include irritation of respiratory tract

**EYE CONTACT:** Symptoms may include stinging, tearing, redness, swelling and blurred vision.

### **Indication of immediate medical attention and special treatment needed, if necessary.**

Provide supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call physician immediately, advise of burns of sodium hydroxide.

## **5. FIRE FIGHTING MEASURES**

**Suitable extinguishing media:** Use methods suitable for surrounding fire  
Unsuitable extinguishing media- Not flammable.

**Specific hazards arising from the chemical:** hazardous gases could be developed

**Hazardous thermal decomposition products:** carbon monoxide and CO<sub>2</sub>

**Special protective actions for fire-fighters:** Keep product containers and surrounding areas cool with water spray. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters:** Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures:**

**For non-emergency personnel:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material.

Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders:** If specialized clothing is required to deal with the spillage, take note of information in section 8 for further information. See also information in non-emergency personnel above.

**Environmental precautions:** Avoid dispersal of spilled material with waterways, drains and sewers. See section 12 for additional ecological information.

### **Methods and materials for containment and cleaning up.**

**Small spill:** Stop leak if without risk. Move containers from the spill area. Absorb with an inert dry material such as diatomaceous earth or vermiculite and place in an appropriate waste disposal container. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

**Large spill:** Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, drains, water courses and confined areas. Wash spillages into an effluent treatment plant or absorb with an inert dry material such as diatomaceous earth or vermiculite and place in a appropriate waste disposal containers. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

## **7. HANDLING AND STORAGE**

### **Precautions for Safe Handling:**

**Safe Handling Advice:** Utilize appropriate personal protective equipment when handling product. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mists. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container and tightly closed when not in use. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection and face protection during use. Avoid release to the environment.

**Advice on general occupational hygiene:** 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. See also section 8 for additional hygiene information.

### **Conditions for safe storage including any incompatibilities:**

Store in original container in a dry, cool and well ventilated area away from strong oxidizing agents (see section 10) and food and drink. Keep container tightly closed when not in use. Do not store in unlabeled containers. Keep away from children.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Control Parameters

#### Occupational Exposure Limits

<u>Ingredient Identity</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH IDLH</u>
Sodium Hydroxide 1310-73-2	ceiling 2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>

### Appropriate Engineering Controls

**Engineering Controls:** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants and maintain air concentrations below occupational exposure standards.

### Individual protection measures, such as personal protective equipment. (PPE)

**Eye/Face Protection:** Wear approved tightly sealed safety goggles

**Skin & Body Protection:** Wear chemical resistant, impervious gloves at all times when handling chemical products. Check during use that gloves are still retaining their impervious properties, as the time for breakthrough can change from different manufacturers and chemical mixtures cannot always be accurately measured. Appropriate footwear and suitable protective clothing should be worn for the degree and risk of exposure.

**Respiratory Protection:** If workplace exposure limits of product or any component is exceeded, utilize proper respiratory protection program guidelines (see OSHA 1910.134 and American National Standard ANSI Z88.2) Use a properly fitted NIOSH/MSHA air-purifying or air-fed respirator in compliance with the above mentioned standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: reddish colored liquid

Odor: mild detergent

Odor threshold: not available

pH: 12.0-12.5

Melting Point/Freezing Point: Not Determined

Initial Boiling Point/Range: Not Determined

Flash Pt: Not Applicable

Evaporation Rate: Not Determined (butyl acetate=1)

Lower explosive limits: Not Applicable

Upper explosive limits: Not Applicable

Vapor Pressure: Not Determined

Vapor Density: Not Determined (air=1)

Relative Density: 1.27

Solubility in water: Soluble

Partition coefficient: not applicable

Auto ignition temp: not applicable

Decomposition Temp: not available

Viscosity: water thin

**10. STABILITY AND REACTIVITY**

Reactivity: Reacts with strong acids.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur.

Conditions to Avoid: Avoid contact with strong acids and oxidizers.

Incompatible Materials: Strong acids and oxidizing materials

Hazardous Decomposition Products: Oxides of sodium and irritating fumes and gases.

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity: classified, Category 4, Sodium Hydroxide, 1310-73-2 Oral LD50 300-500mg/kg rat  
Harmful if swallowed.**

**Skin corrosion irritation: classified, Category 1, Sodium Hydroxide 1310-73-2 500mg/24hr rabbit skin  
Causes severe skin burns and eye damage**

**Serious eye damage: classified, Category 1, Sodium Hydroxide, 1310-73-2  
400ug eyes-rabbit mild, 1%eyes-rabbit severe  
Causes serious eye damage, Causes severe eye burns**

**Sensitization: Not classified**

**Mutagenicity: Not classified**

**Carcinogenicity: Not classified**

**Reproductive Toxicity: Not Classified**

**Teratogenicity: Not Available**

**Specific target Organ Toxicity (single exposure):**

**Not classified or Not available**

**Specific target Organ Toxicity (repeated exposure)**

**Not Classified or Not available**

**Aspiration Hazard:** Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

**Information on the likely routes of exposure:**

**Ingestion:** Harmful if swallowed

**Inhalation:** May cause respiratory irritation. Prolonged inhalation may be harmful.

**Skin:** Causes severe skin burns and eye damage.

**Eye:** Causes serious eye damage.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Ingestion:** See section iv, most important symptoms and effects, acute and delayed.

**Inhalation:** See section iv, most important symptoms and effects, acute and delayed.

**Skin:** See section iv, most important symptoms and effects, acute and delayed.

**Eye:** See section iv, most important symptoms and effects, acute and delayed.

**Delayed and immediate effects and also chronic effects from short and long term exposure.**

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis

**Numerical measures of Toxicity**

Not Available

## 12. ECOLOGICAL INFORMATION

**Toxicity:**

<u>Ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Exposure</u>
Sodium hydroxide 1310-73-2	69.18mg/l	daphnia	48 hrs
	250mg/l	fish	96hrs

**Persistence and degradability:**

Sodium hydroxide- expected to degrade rapidly in air.

**Bioaccumulation Potential:**

This material is not expected to bioaccumulate

**Mobility in Soil:**

Not available

**Other adverse Effects:**

No further information.

## 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable federal, state and local regulations.

**14. TRANSPORTATION INFORMATION**

**DOT:**

UN#: UN3266  
 SHIPPING NAME: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (contains sodium hydroxide)  
 HAZARD CLASS: 8  
 PACKING GROUP: III

IATA: NOT DETERMINED

IMDG: NOT DETERMINED

**15. REGULATORY INFORMATION**

U.S. FEDERAL REGULATIONS: All ingredients are listed or exempted with TSCA.

SARA 302/304: no ingredients found

Cercla- Sodium hydroxide 1310-73-2 listed

SARA 311/312: acute health hazard: yes; reactive-yes

Ingredient	%	FIRE HAZARD	PRESSURE RELEASE	REACTIVE	IMMEDIATE ACUTE	DELAYED CHRONIC
Sodium Hydroxide 1310-73-2	PROPRIETARY			YES	YES	

SARA 313:

**STATE REGULATIONS:**

Ingredient	Rhode Island	New Jersey	Massachusetts	Pennsylvania
Sodium Hydroxide 1310-73-2		yes	yes	yes

California Prop 65: none known to meet requirements.



**16. OTHER INFORMATION**

HMIS RATING: HEALTH (3) FIRE (0) REACTIVITY (1)  
4=EXTREME, 3=HIGH, 2=MODERATE, 1=SLIGHT, 0=INSIGNIFICANT

**NOTICE TO READER:**

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