

## SECTION 1 – PRODUCT AND COMPANY INFORMATION

### Product Identifiers

**Product name:** 96 System Cleaner

**Product Application:** Water Treatment Cleaner

**Emergency telephone number:** CHEMTREC (800) 424-9300 Poison Control: 1-800-222-1222

## SECTION 2 – HAZARD IDENTIFICATION

### Classification of the substance or mixture

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

**Signal Word:** **WARNING**

**Pictograms:** Exclamation Mark

**Acute toxicity:** Category 4, Inhalation

**Physical Hazards:** Not Classified

**Health Hazards:** Skin Irritation/Corrosion (Category 2) Causes skin irritation.

**Eye Damage/Irritation (Category 2A)** Causes serious eye irritation.

**Specific target organ systemic toxicity** - repeated exposure, Category 2, Inhalation

**Environmental Hazards:** Acute aquatic toxicity (Category 3) Harmful to aquatic life.

### Precautionary Statements

**Prevention:** P234 Keep only in original container.  
P260 Do not breathe mist, vapors or spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.

### Response:

304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314 Get medical advice/ attention if you feel unwell.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P390 Absorb spillage to prevent material damage.

**Disposal:** P501 Dispose of contents/container in accordance with local regulation.

**HNOC:** HMIS Rating: Health hazard: 2 Chronic Health Hazard: Flammability: 0 Physical Hazard 0  
NFPA Rating: Health hazard: 2 Fire Hazard: 0 Reactivity Hazard: 0  
\* Hazards not otherwise classified (HNOC) or not covered by GHS.



## SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient	CAS	Wt%
Sodium Hydroxide	1310-73-2	5-10%
1-Hydroxyethylidene-1,1-diphosphonic acid	2809-21-4	5-10%

## SECTION 4 – FIRST AID MEASURES

### Description of first aid measures

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**If swallowed:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

**Indication of any immediate medical attention and special treatment needed:** None known.

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### SECTION 5 – FIREFIGHTING MEASURES

**Flammable Properties:** Non-Flammable

**Explosive Properties:** N/A

**Suitable Extinguishing media:** N/A

**Unsuitable extinguishing media:** N/A

**Special hazards arising from the substance or mixture:** Overheating in fire conditions may produce POISONOUS GASES. Sodium Hydroxide in contact with water or moisture may generate enough heat to ignite combustibles.

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA Fire Brigades Standard (29 CFR 1910.156).

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### SECTION 6 – ACCIDENTIAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Wear respiratory protection. Avoid dust formation. Avoid breathing vapor, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see Section 8.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up:** Keep in suitable, closed containers for disposal. Reference to other sections: For disposal see Section 13.

Product is water soluble and may be diluted and flushed as below described.

**Other Information:** This product is intended to be used in pretreatment of boiler water, and discharged to sanitary sewer in boiler blowdown water. Concentrated product may be diluted to a similar working concentration and flushed to sewer, or soaked up with absorbent material and landfilled in accordance with local, state, and federal regulations.

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### SECTION 7 – HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid formation of aerosols. Provide appropriate exhaust ventilation. For precautions see Section 2.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Store as a non-combustible, corrosive hazardous materials

## SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

### Control parameters

Component	CAS #	Value	Control Parameters	Basis
1-Hydroxyethylidene 1,1-	2809-21-4	Not Regulated		
Sodium Hydroxide	1310-73-2	USA ACGIH	2 mg/m <sup>3</sup>	ACGIH Ceiling (mg/m <sup>3</sup> )
		USA OSHA	2 mg/m <sup>3</sup>	OSHA PEL (TWA) (mg/m <sup>3</sup> )

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

**Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear liquid slight organic odor

**pH:** 7.0

**Specific Gravity:** 1.12

**Molecular Weight:** Mixture

**Water Solubility:** Complete

**Melt/Freeze Point:** Not Determined

**Boiling Point:** 100 C / 212 F

**Flammability:** Not Flammable

**Flash Point:** N/A

**Vapor Density:** NA

**Note:** Physical Data is typical values based on material tested, but may vary based on composition. Values should not be accepted as guaranteed for every lot or as specifications for this product.

## SECTION 10 – STABILITY AND REACTIVITY

**Reactivity:** No data available

**Chemical stability:** Stable under normal conditions of use and storage  
**Possibility of hazardous reactions:** No data available  
**Conditions to avoid:** None known  
**Incompatible materials:** Strong acids and oxidizers.  
**Hazardous decomposition products:** None known.

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**SECTION 11 – TOXICOLOGICAL INFORMATION**

<b>Component: 1-Hydroxy Ethylidene 1,1 CAS 2809-21-4</b>	
Acute Oral Toxicity	LD50, Mouse, 1800. MG/KG.
Acute inhalation toxicity	No data available
Acute Dermal Toxicity	LD50 Dermal - Rat - 7000 mg/kg
Eye irritation	Strong irritant with the danger to cause serious eye injury, caused serious eye irritation
Target Organ Systemic Toxicant -Single exposure	Ingestion or inhalation will result in serious damage to affected membranes
Target Organ Systemic Toxicant - Repeated exposure	Routes of exposure: Inhalation May cause damage to organs through prolonged or repeated exposure.
Skin corrosion/irritation:	Can cause irritation to the skin.
Ingestion:	May be harmful if swallowed. Can cause slight irritation and discomfort.
Respiratory or skin sensitization:	No data available
Reproductive toxicity:	No data available
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Aspiration hazard:	May be harmful if inhaled. Can cause irritation to the respiratory tract and can induce coughing.
Germ cell mutagenicity:	No data available
<b>Component: Sodium Hydroxide CAS 1310-73-2</b>	
Acute Oral Toxicity	LDLo - Lowest published lethal dose oral rabbit 500 mg /kg
Acute inhalation toxicity	No data available
Acute Dermal Toxicity	1350 mg/kg (Rabbit; Literature,Rabbit; Literature)
Eye irritation	Causes serious eye damage.
Target Organ Systemic Toxicant -Single exposure	Ingestion or inhalation will result in serious damage to affected membranes
Target Organ Systemic Toxicant - Repeated exposure	Based on available data, the classification criteria are not met
Skin corrosion/irritation:	Causes severe skin burns and eye damage.
Respiratory or skin sensitization:	No data available
Reproductive toxicity:	Based on available data, the classification criteria are not met
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Aspiration hazard:	No data available
Germ cell mutagenicity:	Based on available data, the classification criteria are not met

## SECTION 12 – ECOLOGICAL INFORMATION

<b>Component: 1-Hydroxy Ethylidene 1,1 CAS 2809-21-4</b>	
Toxicity, Fish	Rainbow Trout ( <i>Oncorhynchus mykiss</i> ), 368.0 MG/L, 96 H.
Toxicity, invertebrates	Water Flea ( <i>Daphnia magna</i> ), 527.0 MG/L, 48 H.
Toxicity, Algae	
Bioaccumulation	This material is not expected to bio-accumulate.
Mobility	Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects.
Biodegradability	Degrades after acclimatization.
Biochemical OxygenDemand (BOD)	No data available
Other adverse effects:	No data available
<b>Component: Sodium Hydroxide CAS 1310-73-2</b>	
Toxicity, Fish	LC50 45.4 mg/l 96 h; <i>Salmo gairdneri</i> ( <i>Oncorhynchus mykiss</i> )
Toxicity, invertebrates	LD50 100 mg/l (48 h; <i>Daphnia magna</i> ; PURE SUBSTANCE)
Toxicity, Algae	No data available
Bioaccumulation	This material will not bioconcentrate
Mobility	No data available
Biodegradability	This Material will disassociate into ionic form in the aquatic environment . Natural carbon dioxide will slowly neutralize this material
Biochemical OxygenDemand (BOD)	No data available
Other adverse effects:	No data available

## SECTION 13 – DISPOSAL CONSIDERATION

### Waste treatment methods:

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

This product is intended to be used in pretreatment of boiler water, and discharged to sanitary sewer in boiler blowdown water. Concentrated product may be diluted to a similar working concentration and flushed to sewer, or soaked up with absorbent material and landfilled in accordance with local, state, and federal regulations.

P501 Dispose of contents/container in accordance with local/state/federal regulations



**Contaminated Packaging:** Do not reuse container for potable / food contact. Wash and rinse thoroughly before reuse / recycling

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## SECTION 14 – TRANSPORT INFORMATION (USDOT)

**Proper shipping Name:** Proprietary Boiler Water Pre-Treatment Blend  
**Hazard Class:** Non-Hazardous  
**UN/ID No** None  
**Packing Group** None  
**Reportable Quantity (RQ)** None

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## SECTION 15 – REGULATORY INFORMATION

**TSCA** (Toxic Substance Control Act): Components of this product are listed on the TSCA Inventory.

**DSL:** This product, or its components, are listed on or are exempt from the Canadian Domestic Substances List (DSL).

**CERCLA:** (Comprehensive Emergency Response Compensation, and Liability Act): Product is not found in “List of Hazardous Substances and Reportable Quantities” (40 CFR 302.4): None

**RCRA:** (Resource Conservation/Recovery Act): No

**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:** Acute Health Hazard

**STATES:** Massachusetts Right to Know Components, Pennsylvania Right To Know Components, New Jersey Right To Know Components: Potassium hydroxide CAS-No.1310-58-3

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

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## SECTION 16 – OTHER INFORMATION

**Fire Protection Association (NFPA) Ratings:**



**NSF Certification:** N/A

This Safety Data Sheet compiled from information provided by the raw chemical product manufacturers.

Disclaimer: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by the vendor for any damage or injury resulting from abnormal use, from failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.



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**SAFETY DATA SHEET** (GHS Format)

Also available for download at:

<http://www.WalterLouis.com/MSDS/>