

## SECTION 1 – PRODUCT AND COMPANY INFORMATION

SAFETY DATA SHEET (GHS Format)

Also available for download at: http://www.WalterLouis.com/MSDS/

Product IdentifiersProduct name:1495 BOILER COMPOUNDProduct Application:Boiler Water TreatmentEmergency telephone number:CHEMTREC (800) 424-9300Poison Control: 1-800-222-1222

#### **SECTION 2 – HAZARD IDENTIFICATION**

		substance or mixture accordance with 29 CFR 1910 (OSHA HCS)		
Signal Word:		WARNING		
Pictograms:				
Physical Haza	ards	Not Classified		
Health Hazar		May be harmful in contact with skin. May be harmful if swallowed		
		May be harmful to aquatic life.		
Precautionar	-			
Prevention:		eep only in original container.		
		o not breathe mist, vapors or spray.		
		ash skin thoroughly after handling.		
		e only outdoors or in a well-ventilated area.		
_	P280 W	ear protective gloves/ eye protection/ face protection.		
Response:				
		340 IF INHALED: Remove person to fresh air and		
	•	mfortable for breathing.		
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water				
		eral minutes. Remove contact lenses, if present and		
	-	do. Continue rinsing.		
		et medical advice/ attention if you feel unwell.		
	attentic	P313 If eye irritation persists: Get medical advice/		
		psorb spillage to prevent material damage.		
Disposal:		spose of contents/container in accordance with local regulation.		
Disposal.	1 301 01	spose 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			
		irds not otherwise classified (HNOC) or not covered by GHS.		
	11020	into not otherwise classified (involg of not covered by Gris.		

# SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient	CAS	Wt%
Potassium Hydroxide	1310-58-3	1-5%.
Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	<1%
1-Hydroxy Ethylidene 1,1	CAS 2809-21-4	<1%

**SECTION 4 – FIRST AID MEASURES** 

## Description of first aid measures



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**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.

## **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 su	ihstance or mivtur

**Special hazards arising from the substance or mixture:** Overheating in fire conditions may produce POISONOUS GASES. Potassium 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).

# 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.

## 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



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## SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION Control parameters

Component	CAS #	Value	Control Paramete	rs Basis
Potassium Hydroxide	1310-58-3	REL	2 mg/m <sup>3</sup>	Ceiling Limit Value
		TLV	2 mg/m³	Ceiling Limit Value
		ACGIH TLV	15 mg/M3	for dust
Ethylenediaminetetraacetic acid,	64-02-8	Not Regulated		
tetrasodium salt				
1-Hydroxyethylidene 1,1-	2809-21-4	Not Regulated		

## **Exposure controls**

**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).

<u>Skin protection</u>: 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:	7.5
Specific Gravity:	1.059
Molecular Weight:	Mixture
Water Solubility:	Complete
Melt/Freeze Point:	Not Determined
Boiling Point:	110 C / 230 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**



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530 South Fifth Street, Quincy, IL 62301-4896 V: 217-223-2017 F: 217-223-7734 8am-5pm US CST After Hours: CHEMTREC 1-800-424-9300 Also available for download at: http://www.WalterLouis.com/MSDS/

Reactivity:No data availableChemical stability:Stable under normal conditions of use and storagePossibility of hazardous reactions:No data availableConditions to avoid:None knownIncompatible materials:Strong acids and oxidizers.Hazardous decomposition products:None known.

## SECTION 11 – TOXICOLOGICAL INFORMATION

Component: Potassium hydroxide CAS 1310-58-3		
Acute Oral Toxicity	LD50 (Rat) 273 mg/kg	
Acute inhalation toxicity	80 mg/l (daphnia)	
Acute Dermal Toxicity	No data available	
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:		
Respiratory or skin sensitization:	Stong caustic effect on skin	
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:	No data available	
Germ cell mutagenicity:	No data available	

Germ cell mutagenicity:	No data available		
Component: Ethylenediaminetetraacetic acid, tetrasodium salt			
Acute Oral Toxicity	LD50 (Rat) 1780 mg/kg		
Acute inhalation toxicity	LC50 (Rat): > 1 - 5 mg/		
Acute Dermal Toxicity	No data available		
Eye irritation	Eye irritation		
Target Organ Systemic Toxicant -Single exposure	No data available		
Target Organ Systemic Toxicant - Repeated exposure	Routes of exposure: Inhalation May cause damage to organs through prolonged or repeated exposure.		
Skin corrosion/irritation:			
Respiratory or skin sensitization:			



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Reproductive toxicity:	No data available	
Carcinogenicity	No data available	
Aspiration hazard:	No data available	
Germ cell mutagenicity:	No data available	
Component: 1-Hydroxy Ethylidene 1,1 CAS 2809-21-4		
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	Injestion 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	

# SECTION 12 – ECOLOGICAL INFORMATION

Component: Potassium hydro	oxide CAS 1310-58-3
Toxicity, Fish	80 mg/l 96H
Toxicity, invertebrates	60 mg/l 48H
Toxicity, Algae	ErC50 61 mg/l 96H
Bioaccumulation	This material will not bioconcentrate
Mobility	No data available
Biodegradability	This Material will disassociate into ionic form in the aquatic enviroment . Natural carbon dioxide will slowly neutralize this material
Biochemical OxygenDemand (BOD)	No data available
Other adverse effects:	No data available
Component: Ethylenediamin	etetraacetic acid, tetrasodium salt CAS 64-02-8
Toxicity, Fish	LC50 : >100 mg/l, 96H
Toxicity, invertebrates	EC50 : > 500 mg/l, 24H
Toxicity, Algae	EC50 : >100 mg/l, 72H



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Bioaccumulation	No data available
Mobility	No data available
Biodegradability	Not readily biodegradable.
Biochemical OxygenDemand (BOD)	No data available
Other adverse effects:	No data available
Component: 1-Hydroxy Ethy	lidene 1,1 CAS 2809-21-4
Toxicity, Fish	Rainbow Trout (Oncorhynchus mykiss), 368.0 MG/L, 96 H.
Toxicity, invertebrates	Water Flea (Daphnia magna), 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

## 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. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

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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

#### **SECTION 15 – REGULATORY INFORMATION**

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



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**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.

# 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.