# Safety Data Sheet



# **SECTION 1: Product and company identification**

Product name : Boiler Treat "H" Use of the substance/mixture : Water treatment

Product code : 0903

Company : Total Solutions P.O. Box 240014

Milwaukee, WI 53224 - USA

T (414) 354-6417

Emergency number : Chemtec: (800) 424-9300

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification (GHS-US)

Skin Corr. 1A H314

Full text of H-phrases: see section 16

#### 2.2. Label elements

## **GHS-US** labeling

Hazard pictograms (GHS-US)



GHS05

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : Causes severe skin burns and eye damage

Precautionary statements (GHS-US) : Do not breathe mist, spray

Wash thoroughly after handling

Wear eye protection, protective clothing, protective gloves If swallowed: rinse mouth. Do NOT induce vomiting

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower

If inhaled: Remove person to fresh air and keep comfortable for breathing

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing

Immediately call a doctor, a POISON CENTER
Specific treatment (see First aid measures on this label)

Wash contaminated clothing before reuse

Store locked up

Dispose of contents/container to comply with local/regional/national/international regulations.

#### 2.3. Other hazards

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

Not applicable

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substance

Not applicable

Full text of H-phrases: see section 16

#### 3.2. Mixture

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Name	Product identifier	%	Classification (GHS-US)
Proprietary Dispersant	(CAS No) Proprietary	5-10	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
Potassium Carbonate	(CAS No) 584-08-7	5-10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
sodium hydroxide, caustic soda	(CAS No) 1310-73-2	1-5	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314

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## **SECTION 4: First aid measures**

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with

water/shower. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage.

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Caustic burns/corrosion of the skin.

Symptoms/injuries after eye contact : Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.

Symptoms/injuries after ingestion : Harmful if swallowed. Burns to the gastric/intestinal mucosa.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable extinguishing media : All extinguishing media allowed.

5.2. Special hazards arising from the substance or mixture

Reactivity : Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed

containers. Take account of environmentally hazardous firefighting water.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Isolate from fire, if possible, without unnecessary risk.

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Protective goggles. Protective clothing.

Emergency procedures : Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution.

6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

No additional information available

## **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Do not handle until all safety precautions have been read and

understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Handle and open the container with care.

Hygiene measures : Wash thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations. Add ALLWAYS product to water for dilution/mixture. Never add

water to this product.

Storage conditions : Keep container closed when not in use. Store in original container.

Incompatible products : strong acids.

Storage area : Keep only in the original container. Store in a dry area. Store in a cool area.

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Special rules on packaging : meet the legal requirements.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

sodium hydroxide, caustic soda (1310-73-2)		
ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³
ACGIH	Remark (ACGIH)	URT, eye, & skin irr

#### 8.2. Exposure controls

Personal protective equipment

Use appropriate personal protective equipment when risk assessment indicates this is necessary.
 Gloves. Safety glasses. Protective clothing.







## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : clear, dark brown liquid.

Odor : characteristic
Odor threshold : No data available

pH : 13.5 - 14

: No data available Melting point Freezing point : No data available Boiling point No data available Flash point : > 200 °F Closed Cup Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available **Explosion limits** : No data available Explosive properties No data available Oxidizing properties No data available Vapor pressure : No data available Relative density No data available Relative vapor density at 20 °C No data available

Specific gravity / density : 1.1 g/ml

Solubility Soluble in water. Log Pow : No data available Log Kow No data available Auto-ignition temperature : No data available Decomposition temperature : No data available No data available Viscosity Viscosity, kinematic : No data available Viscosity, dynamic : No data available

VOC content : 0 %

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Upon combustion: CO and CO2 are formed.

## 10.2. Chemical stability

No additional information available

## 10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

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#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

strong acids.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

sodium hydroxide, caustic soda (1310-73-2)	
LD50 oral rat	4090 mg/kg
LD50 dermal rabbit	1350 mg/kg
ATE CLP (oral)	4090.000 mg/kg body weight
ATE CLP (dermal)	1350.000 mg/kg body weight

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 13.5 - 14 : Not classified.

Serious eye damage/irritation : Not classified pH: 13.5 - 14
Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : May cause respiratory irritation.
Symptoms/injuries after skin contact : Caustic burns/corrosion of the skin.

Symptoms/injuries after eye contact : Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.

Symptoms/injuries after ingestion : Harmful if swallowed. Burns to the gastric/intestinal mucosa.

## **SECTION 12: Ecological information**

# 12.1. Toxicity

No additional information available

## 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

#### **SECTION 14: Transport information**

## **Department of Transportation (DOT)**

Transport document description : UN3266 Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hydroxide), 8, II

UN-No.(DOT) : UN3266

Proper Shipping Name (DOT) : Corrosive liquid, basic, inorganic, n.o.s.

Transport hazard class(es) (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

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Hazard labels (DOT) : 8 - Corrosive



Packing group (DOT) : II - Medium Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Symbols : G - Identifies PSN requiring a technical name

: 1L

DOT Special Provisions (49 CFR 172.102) : B2,IB2,T11,TP2,TP27

DOT Packaging Exceptions (49 CFR : 15

173.xxx)

DOT Quantity Limitations Passenger

aircraft/rail (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft : 30 L

only (49 CFR 175.75)

DOT Vessel Stowage Location : B

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters",52 - Stow "separated from" acids

**Additional information** 

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

# **SECTION 15: Regulatory information**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

sodium hydroxide, caustic soda (1310-73-2)		
Not listed on SARA Section 313 (Specific toxic che	SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb	

California Proposition 65 - This product does not contain substances known to the state of California to cause cancer and/or reproductive toxicity.

## **SECTION 16: Other information**

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

tt of 11 princeoe.	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation

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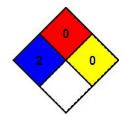
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury

unless prompt medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



#### Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.

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