## Safety Data Sheet



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

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

Product code : 1958

Company : Total Solutions

P.O. Box 240014

Milwaukee, WI 53224 - USA

T 800-743-6417

athea.com

Contact:Technical Department

Emergency number : Chemtrec: 1-800-424-9300

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

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

**GHS-US** classification

Skin Irrit. 2 H315 Eye Dam. 1 H318

#### 2.2. Label elements

GHS US labelling

Hazard pictograms (GHS US)



GHS05

Signal word (GHS US) : Danger

Hazard statements (GHS US) : Causes skin irritation.

Causes serious eye damage.

Precautionary statements (GHS US) : Wash thoroughly after handling

Wear eye protection, protective clothing, protective gloves.

If on skin: Wash with plenty of soap and water.

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). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

#### 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. Substances

Not applicable

#### 3.2. Mixtures

3.2. Wilktures				
Name	Product identifier	%	GHS-US classification	
Tetrapotassium Pyrophosphate	(CAS-No.) 7320-34-5	1-5	Skin Irrit. 2, H315	
			Eye Irrit. 2A, H319	
			STOT SE 3, H335	
Potassium Hydroxide	(CAS-No.) 1310-58-3	1-5	Acute Tox. 3 (Oral), H301	
			Skin Corr. 1, H314	
			Eye Dam. 1, H318	

All hazardous chemicals, as determined by 29 CFR 1910.1200 have been listed. A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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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 person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Take off contaminated clothing and wash it before reuse. Wash with water and soap. If skin irritation

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.

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

Symptoms/effects : Causes skin irritation. Causes serious eye damage.

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation.

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

Symptoms/effects after ingestion : May be harmful if swallowed. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints.

Cramps.

### 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 : Protective goggles. Gloves. 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 product, collect/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.

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

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## 7.2. Conditions for safe storage, including any incompatibilities

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

water to this product.

Storage conditions : Keep container closed when not in use.

Incompatible products : Acids.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: (strong) acids.

Storage area : Meet the legal requirements. Store in a dry area. Store in a cool area.

Special rules on packaging : meet the legal requirements. Keep only in original container.

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

#### 8.1. Control parameters

Potassium	Hydroxide	(1310-58-3)
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7	<b>,</b>	
ACGIH	ACGIH OEL C	2 mg/m³
ACGIH	Remark (ACGIH)	URT, eye, & skin irr

#### Tetrapotassium Pyrophosphate (7320-34-5)

Not applicable

#### 8.2. Exposure controls

Personal protective equipment

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



< 0.5 %





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

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : clear,brown,Liquid
Odour : Mild odour
Odour threshold : No data available

pH : 12 – 14

Melting point No data available Freezing point No data available Boiling point No data available Flash point > 200 °F Closed Cup Relative evaporation rate (butylacetate=1) No data available Flammability (solid, gas) No data available Explosive limits No data available Explosive properties No data available Oxidising properties No data available Vapour pressure No data available Relative density No data available Relative vapour density at 20 °C No data available 1.07 g/ml Density Soluble in water. Solubility Partition coefficient n-octanol/water (Log Pow) No data available Partition coefficient n-octanol/water (Log Kow) No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity No data available No data available Viscosity, kinematic Viscosity, dynamic No data available

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

#### 10.1. Reactivity

VOC content

Upon combustion: CO and CO2 are formed.

## 10.2. Chemical stability

Stable under normal conditions.

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## 10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

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

Potassium Hydroxide (1310-58-3)	
LD50 oral rat	273 mg/kg (Rat, Oral)
ATE CLP (oral)	273 mg/kg bodyweight

Tetrapotassium Pyrophosphate (7320-34-5)	
LD50 dermal rabbit	> 4640 mg/kg (Rabbit)

Skin corrosion/irritation : Causes skin irritation.

pH: 12 - 14

Causes serious eye damage. Serious eye damage/irritation

pH: 12 - 14 Not classified

: Not classified

Respiratory or skin sensitisation Germ cell mutagenicity Not classified Not classified Carcinogenicity

Reproductive toxicity Not classified STOT-single exposure Not classified

Not classified Aspiration hazard

Symptoms/effects after inhalation May cause respiratory irritation.

Symptoms/effects after skin contact Causes skin irritation.

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

May be harmful if swallowed. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints. Symptoms/effects after ingestion

Cramps.

Likely routes of exposure : Skin and eyes contact

## **SECTION 12: Ecological information**

## 12.1. Toxicity

STOT-repeated exposure

Potassium Hydroxide (1310-58-3)	
LC50 - Fish [1]	80 mg/l (96 h, Gambusia affinis, Pure substance)

Tetrapotassium Pyrophosphate (7320-34-5)		
	LC50 - Fish [1]	> 750 mg/l (48 h, Leuciscus idus)

### 12.2. Persistence and degradability

Potassium Hydroxide (1310-58-3)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Tetrapotassium Pyrophosphate (7320-34-5)
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Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

### 12.3. Bioaccumulative potential

Potassium Hydroxide (1310-58-3)		
Bioaccumulative potential	Not bioaccumulative.	

Tetrapotassium Pyrophosphate (7320-34-5)	
Bioaccumulative potential	Bioaccumulation: not applicable.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations

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

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

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

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

UN-No.(DOT) UN3266

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

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

: 154

: 1 L

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

DOT Special Provisions (49 CFR 172.102)

DOT Packaging Exceptions (49 CFR

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

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

: B2,IB2,T11,TP2,TP27

### **Additional information**

: When transported by ground, this product may be eligible to be shipped as a Limited Quantity utilizing Other information

the exception found at 49 CFR 173.154. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may be required.

#### **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.

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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.

Acrylamide	79-06-1	< 0.001%	
Potassium Hydroxide	(1310-58-3)	CERCLA RQ1000 lb	

**MARNING** 

This product can expose you to Acrylamide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## **SECTION 16: Other information**

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

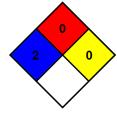
NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual

injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible

materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



#### 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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