# **Safety Data Sheet**



Issue Date: 01-Jun-2010 Revision Date: 23-Apr-2015 Version 1

# 1. IDENTIFICATION

Product Identifier

Product Name Boiler Water Treatment

Other means of identification

**SDS #** BL-160

**UN/ID No** 

Recommended use of the chemical and restrictions on use
Recommended Use Steam Boiler Treatment.

Details of the supplier of the safety data sheet

**Manufacturer Address** 

Atlantic Chemical & Equipment Company 3471 Atlanta Industrial Parkway Suite 200 Atlanta, GA 30331 USA

**Emergency Telephone Number** 

Company Phone Number 404-505-6626 1-800-929-2436

Emergency Telephone (24 hr) Chemtrec 1-800-424-9300 (USA) 1-800-567-7455 (International)

# 2. HAZARDS IDENTIFICATION

Appearance Dark brown liquid Physical State Liquid Odor Musty

# Classification

Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1

### Signal Word Danger

# **Hazard Statements**

Causes severe skin burns and eye damage



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#### **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

### **Precautionary Statements - Response**

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

If skin irritation persists: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison center or doctor/physician IF SWALLOWED: Rinse mouth. Do NOT induce vomiting Immediately call a poison center or doctor/physician

### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sodium Sulfite	7757-83-7	<4
Potassium hydroxide	1310-58-3	4

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

# 4. FIRST-AID MEASURES

#### **First Aid Measures**

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 or doctor/physician.

**Skin Contact** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse. If irritation persists, seek medical attention.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

breathing is difficult, give oxygen. Immediately call a poison center or doctor/physician.

**Ingestion** Rinse mouth. Drink plenty of water. Do not induce vomiting. Immediately call a poison

center or doctor/physician.

#### Most important symptoms and effects

**Symptoms** Causes severe skin burns and eye damage. Inhalation of mists can cause irritation of

respiratory system and possible destruction of tissues; possible effect on oxygen carrying

ability of blood. Ingestion may cause gastric distress.

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

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

# Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

#### Specific Hazards Arising from the Chemical

Fire may produce irritating and/or toxic gases.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2). Sulfur dioxide gas.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protection recommended in Section 8.

**Environmental Precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See

Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Neutralize solution with a dilute acid. Contain and collect with an inert absorbent and place

into an appropriate container for disposal.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face,

hands, and any exposed skin thoroughly after handling. Do not breathe

dust/fume/gas/mist/vapors/spray. Keep containers closed when not in use. Follow all

product label instructions. Use only as directed.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked

up.

Packaging Materials Do not store in aluminum drums.

**Incompatible Materials** Acids. Acid products. Soft metals such as aluminum and zinc.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m <sup>3</sup>	(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>

# **Appropriate engineering controls**

**Engineering Controls**Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Chemical goggles or full face shield.

**Skin and Body Protection** Chemical resistant rubber or plastic gloves.

**Respiratory Protection** In misty conditions, wear NIOSH approved high efficiency particulate respirator.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State Liquid

AppearanceDark brown liquidOdorMusty

Color Dark brown Odor Threshold Not determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 13.5

Melting Point/Freezing PointNot applicableBoiling Point/Boiling Range132.7 °C / 271 °F

Flash Point None

Evaporation Rate 1 (Water = 1)

Flammability (Solid, Gas)
Upper Flammability Limits
Lower Flammability Limit

Liquid-Not applicable
Not determined
Not determined

 Vapor Pressure
 39 mm Hg
 @ 60°C

 Vapor Density
 1.0
 (Air=1)

 Specific Gravity
 1.151
 (Water = 1)

**Water Solubility** Completely soluble Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

# 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### **Chemical Stability**

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

### **Conditions to Avoid**

Keep separated from incompatible substances. Keep out of reach of children.

#### **Incompatible Materials**

Acids. Acid products. Soft metals such as aluminum and zinc.

# **Hazardous Decomposition Products**

Carbon monoxide. Carbon dioxide (CO2). Sulfur dioxide gas.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

#### **Product Information**

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns.

**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Do not ingest.

#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Sulfite 7757-83-7	= 820 mg/kg ( Rat )	-	> 22 mg/L (Rat)1 h
Potassium hydroxide 1310-58-3	= 284 mg/kg ( Rat )	-	-

#### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium Sulfite		Group 3		
7757-83-7				

#### **Numerical measures of toxicity**

Not determined

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

# **Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Sulfite 7757-83-7		220 - 460: 96 h Leuciscus idus mg/L LC50 static		330: 24 h Psammechinus miliaris mg/L LC50
Potassium hydroxide 1310-58-3		80: 96 h Gambusia affinis mg/L LC50 static		

# Persistence/Degradability

Not determined.

### **Bioaccumulation**

Not determined.

# **Mobility**

Chemical Name	Partition Coefficient
Sodium Sulfite 7757-83-7	-4
Potassium hydroxide 1310-58-3	0.65 0.83

# Other Adverse Effects

Not determined

# 13. DISPOSAL CONSIDERATIONS

# **Waste Treatment Methods**

**Disposal of Wastes**Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

### California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Potassium hydroxide	Toxic
1310-58-3	Corrosive

# 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

UN/ID No NA

**Proper Shipping Name** 

Hazard Class Packing Group

<u>IATA</u>

UN/ID No NA

**Proper Shipping Name** 

Hazard Class Packing Group

**IMDG** 

UN/ID No NA

**Proper Shipping Name** 

Hazard Class Packing Group

# 15. REGULATORY INFORMATION

# International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sodium Sulfite	Present	Х		Present		Present	Х	Present	Х	Х
Potassium hydroxide	Present	Х		Present		Present	Х	Present	Х	Х

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **US Federal Regulations**

# **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Potassium hydroxide	1000 lb		RQ 1000 lb final RQ
1310-58-3			RQ 454 kg final RQ

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# **CWA (Clean Water Act)**

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium hydroxide	1000 lb			Χ

### **US State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Chemical Name New Jersey		Massachusetts	Pennsylvania
Potassium hydroxide	X	X	X
1310-58-3			

# **16. OTHER INFORMATION**

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
HMIS_	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	0	0	Not determined

Issue Date:01-Jun-2010Revision Date:23-Apr-2015Revision Note:New format

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**