

# Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/01/2015 Supersedes: 12/20/2010

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name : FREMONT BWT 4391 Boiler Water Treatment

Product form : Mixture

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Boiler water treatment

#### 1.3. Details of the supplier of the safety data sheet

FREMONT INDUSTRIES, INC. 4400 Valley Industrial Blvd. N. P.O. Box 67

Shakopee, MN 55379-0067

#### 1.4. Emergency telephone number

Emergency number : (952) 445-4121

CHEMTREC: (800) 424-9300

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

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

# Classification (GHS-US)

Skin Corr. 1A H314

#### 2.2. Label elements

#### **GHS-US labeling**

Hazard pictograms (GHS-US)



Signal word (GHS-US) : **Danger** 

Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS-US) : P260 - Do not breathe mists

P264 - Wash skin thoroughly after handling

P280 - Wear eye protection, face protection, protective clothing, protective gloves P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing

OI DIEAHIIIY

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician P321 - Specific treatment (see first aid instructions on this label)

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

P501 - Dispose of contents/container to licensed waste handling facility

#### 2.3. Other hazards

No additional information available

# 2.4. Unknown acute toxicity (GHS-US)

No data available

SDS – Form Revision 15/02/01-D Page 1 / 7

# Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## SECTION 3: Composition/information on ingredients

#### 3.1.

Not applicable

#### 3.2. Mixture

Name	Product identifier	%
Potassium hydroxide	(CAS No) 1310-58-3	5 - 15
2-Propenoic acid, polymer with sodium phosphinate	(CAS No) 71050-62-9	1 - 5

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

#### Description of first aid measures 4.1.

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice First-aid measures general

(show the label where possible).

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

: IF ON SKIN: Immediately rinse with plenty of water (for at least 15 minutes). Get medical

advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15

minutes minimum). Get medical advice/attention.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

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

: May cause headache, nausea and irritation of respiratory tract. Symptoms/injuries after inhalation

Symptoms/injuries after skin contact : Highly corrosive to skin. Symptoms/injuries after eye contact : Causes serious eye burns.

Symptoms/injuries after ingestion Severe irritation or burns to the mouth, throat, esophagus, and stomach. Possible esophageal

perforation.

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

No additional information available.

# **SECTION 5: Firefighting measures**

#### Extinguishing media 5.1.

suitable extinguishing media : Water spray. Carbon dioxide. Alcohol-resistant foam. Dry powder.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Product is not flammable. **Explosion hazard** : Product is not explosive.

Reactivity : No dangerous reactions known under normal conditions of use.

Advice for firefighters 5.3.

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

chemical fire. Do not dispose of fire-fighting water in the environment.

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 Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews

properly equiped with respiratory equipment and full chemical protective gear (see section 8).

For non-emergency personnel 6.1.1.

Protective equipment : Wear Protective equipment as described in Section 8.

**Emergency procedures** : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air

respirator, in case of emergency.

#### 6.2. **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

Methods for cleaning up Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in

a suitable container for disposal in accordance with the waste regulations (see Section 13).

SDS - Form Revision 15/02/01-D Page 2/7

# Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 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

: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mists. Keep away from sources of ignition - No smoking.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources.

Keep container closed when not in use.

Incompatible products : Strong oxidizers. Strong acids.

# 7.3. Specific end use(s)No additional information available

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

#### 8.1. Control parameters

Potassium hydroxide (1310-58-3)	
ACGIH Ceiling (mg/m³)	2 mg/m³
OSHA PEL (Ceiling) (mg/m³)	2 mg/m³ vacated

2-Propenoic acid, polymer with sodium phosphinate (71050-62-9)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established

### 8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas.

Personal protective equipment : Gloves. Protective goggles. Face shield. Protective clothing. Respiratory protection of the

dependent type.











Hand protection : Protective gloves made of rubber.

Eye protection : Eye protection, including both chemical splash goggles and face shield, must be worn when

possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection : Corrosionproof clothing.

Respiratory protection : An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be

used when vapor concentration exceeds applicable exposure limits.

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

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Brown.
Odor : Sweet.

Odor Threshold : No data available

pH : 12.5 - 14

Relative evaporation rate (butyl acetate=1) : No data available
Melting point : No data available
Freezing point : No data available

Boiling point : 100 °C

Flash point : No data available
Self ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : No data available

SDS – Form Revision 15/02/01-D Page 3 / 7

# Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Relative vapor density at 20 °C : No data available Relative density : 1.05 - 1.09

Solubility : Complete solubility in water.

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosive limits : No data available

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

Sparks. Heat. Open flame.

#### 10.5. Incompatible materials

Oxidizing agent. Strong acids. Soft metals (aluminum, copper, brass).

## 10.6. Hazardous decomposition products

Thermal decomposition generates: Carbon oxides (CO, CO2). Sulfur oxides.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

Potassium hydroxide (1310-58-3)	
LD50 oral rat	214 mg/kg
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: 12.5 - 14
Serious eye damage/irritation	: Not classified
	pH: 12.5 - 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 headache, nausea and irritation of respiratory tract.
Symptoms/injuries after skin contact	: Highly corrosive to skin.
Symptoms/injuries after eye contact	: Causes serious eye burns.
Symptoms/injuries after ingestion	: Severe irritation or burns to the mouth, throat, esophagus, and stomach. Possible esophageal perforation.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : No data available

SDS – Form Revision 15/02/01-D Page 4 / 7

# Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 12.2. Persistence and degradability

FREMONT BWT 4391 Boiler Water Treatment	
Persistence and degradability	No data available.

#### 12.3. Bioaccumulative potential

FREMONT BWT 4391 Boiler Water Treatment	
Bioaccumulative potential	No information available.

#### 12.4. Mobility in soil

FREMONT BWT 4391 Boiler Water Treatment	
Ecology - soil	No data available.

#### 12.5. Other adverse effects

Other adverse effects : No data available.

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

#### 13.1. Waste treatment methods

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities. No

discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product

to be released into the environment.

## **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Transport document description : UN1760, CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE, 2-PROPENOIC ACID

POLYMER WITH SODIUM PHOSPHINATE), 8, PGII

UN-No.(DOT) : 1760 DOT NA no. UN1760

14.2. UN proper shipping name

DOT Proper Shipping Name : Corrosive liquids, n.o.s.

(Potassium hydroxide, 2-Propenoic acid polymer with sodium phosphinate)

Department of Transportation (DOT) Hazard

Classes

: 8 - Class 8 - Corrosive material 49 CFR 173.136

Hazard labels (DOT) : 8 - Corrosive substances



Packing group (DOT) : II - Medium Danger

14.3. Additional information

Other information : No supplementary information available.

# Overland transport

No additional information available

Transport by sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

DOT Vessel Stowage Other : 52 - Stow "separated from" acids

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 1 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 30 L

CFR 175.75)

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

# FREMONT BWT 4391 Boiler Water Treatment

All chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory

SDS – Form Revision 15/02/01-D Page 5 / 7

# Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

FREMONT BWT 4391 Boiler Water Treatment	
Immediate (acute) health hazard	
nces Control Act) inventory nical listings)	
1000 lb	
Immediate (acute) health hazard	

### 2-Propenoic acid, polymer with sodium phosphinate (71050-62-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### **CANADA**

### Potassium hydroxide (1310-58-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

## 2-Propenoic acid, polymer with sodium phosphinate (71050-62-9)

Listed on the Canadian DSL (Domestic Substances List) inventory.

No additional information available

### 15.2.2. National regulations

# Potassium hydroxide (1310-58-3)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on KECI (Chemical Inventory of Korea)

# 2-Propenoic acid, polymer with sodium phosphinate (71050-62-9)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on KECI (Chemical Inventory of Korea)

#### 15.3. US State regulations

#### Potassium hydroxide (1310-58-3)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### **SECTION 16: Other information**

Indication of changes : Revision 1.0 - (October 2013) - New SDS Created.

Other information : Author. AM.

NFPA health hazard : 3 - Short exposure could cause serious temporary or

residual injury even though prompt medical attention was given.

given.

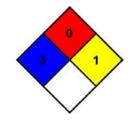
NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with

temperatures and pressures or may react with water with

some release of energy, but not violently.



SDS – Form Revision 15/02/01-D Page 6 / 7

# Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## **HMIS III Rating**

Health : 3
Flammability : 0
Physical : 1

Personal Protection : Wear suitable protective clothing, gloves and eye/face protection.

FREMONT'S PRODUCTS ARE SOLD "AS IS." FREMONT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO ITS PRODUCTS OR RELATED SERVICES. ALL SUCH EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE SPECIFICALLY DISCLAIMED.

SDS – Form Revision 15/02/01-D Page 7 / 7