FREMON⁻

WATER SOLUTIONS

FREMONT BWT 4467 Boiler Water Treatment

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: 12/28/2010

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

Product identifier

Product name

: FREMONT BWT 4467 Boiler Water Treatment

Product form

: Mixture

1.2

Relevant identified uses of the substance or mixture and uses advised against

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

Emergency telephone number

Emergency number

(952) 445-4121

CHEMTREC: (800) 424-9300

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS-US classification

Acute Tox. 4 (Oral) Skin Irrit. 2 H315

H318 Eye Dam. 1

Repr. 2 H361

Label elements 2.2.

GHS-US labelling

Hazard pictograms (GHS-US)



GHS07



GHS05

GHS08

Signal word (GHS-US)

Hazard statements (GHS-US)

: Danger

: H302 - Harmful if swallowed H315 - Causes skin irritation

H318 - Causes serious eye damage

H361 - Suspected of damaging fertility or the unborn child

Precautionary statements (GHS-US)

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P264 - Wash hands, forearms and face thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P280 - Wear eye protection, protective clothing, protective gloves P301+P312 - If swallowed: Call a doctor, a POISON CENTER if you feel unwell

P302+P352 - If on skin: Wash with plenty of soap and water

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P308+P313 - If exposed or concerned: Get medical advice/attention

P310 - Immediately call a doctor, a POISON CENTER

P321 - Specific treatment (see first aid instructions on this label)

P330 - Rinse mouth

P332+P313 - If skin irritation occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse

P405 - Store locked up

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

Other hazards

No additional information available

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Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	
Sodium nitrite	(CAS No) 7632-00-0	15 - 40	
Sodium hydroxide	(CAS No) 1310-73-2	3 - 7	
Boric acid (HBO2), sodium salt, tetrahydrate	(CAS No) 10555-76-7	1 - 5	
2-Amino-2-methyl-1-propanol	(CAS No) 124-68-5	1-5	

SECTION 4: First aid measures

Description of first aid measures 4.1.

First-aid measures general

If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

First-aid measures after inhalation

IF INHALED. Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

First-aid measures after skin contact

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at

least 15 minutes. If irritation develops or persists, get medical attention.

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

First-aid measures after ingestion

First-aid measures after eye contact

IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries

Chronic symptoms

: Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Suspected of

damaging fertility or the unborn child.

Symptoms/injuries after inhalation

May cause respiratory irritation.

Symptoms/injuries after skin contact ·

Causes skin irritation.

Symptoms/injuries after eye contact

Causes serious eye damage.

Symptoms/injuries after ingestion.

: . Harmful if swallowed. . : Suspected of damaging fertility. Suspected of damaging the unborn child.

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

: Carbon dioxide. Foam. Dry powder. Sand. Water spray.

Special hazards arising from the substance or mixture 5.2.

Fire hazard

: The product is not flammable.

Explosion hazard

Product is not explosive.

Reactivity

No dangerous reactions known under normal conditions of use.

Advice for firefighters

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. Prevent human exposure

to fire, fumes, smoke and products of combustion.

Protection during firefighting

Do not enter fire area without proper protective equipment, including respiratory protection.

Self-contained breathing apparatus.

SECTION 6: Accidental release measures

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 equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

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-airrespirator, in case of emergency.

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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 streams. Sweep or shovel spills into appropriate container for disposal.

Methods for cleaning up

: Wear suitable protective clothing. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Product may create slip hazard. Wash spill area thoroughly with plenty of soap and water. If slipperiness remains, apply additional dry-sweeping compound. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

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. Avoid contact with skin and eyes. Provide good ventilation in process area to prevent formation of vapour. Do not breathe fume, mist, spray, vapours. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in dry, well-ventilated area. Keep container closed when not in use.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium nitrite (7632-00-0)				
Remark (ACGIH)	OELs not established .			
Remark (OSHA)	OELs not established			
Boric acid (HBO2), sodium salt, tetrahydrate (10555-76-7)				
Remark (ACGIH)	OELs not established			
Remark (OSHA)	OELs not established			
Sodium hydroxide (1310-73-2)				
ACGIH Ceiling (mg/m³)	2			
OSHA PEL (TWA) (mg/m³)	2			
OSHA PEL (Ceiling) (mg/m³)	2			
2-Amino-2-methyl-1-propanol (124-68-5)				
Remark (ACGIH)	OELs not established			
Remark (OSHA)	OELs not established			

8.2. Exposure controls

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

: Gloves. Wear chemical goggles and face shield in combination. Protective clothing.







Hand protection

: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

Eye protection

: Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.

Skin and body protection Respiratory protection : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : No data available
Odor : No data available
Odor Threshold : No data available

pH : No data available
Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available
Freezing point : No data available
Boiling point : No data available

Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available

Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available

Relative density : No data available Solubility : No data available 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
Oxidising properties : No data available

Explosive limits : No data available

9.2. Other informationNo 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

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Oral: Harmful if swallowed.

> 2000 mg/kg

Sodium nitrite (7632-00-0)	
LD50 oral rat	85 mg/kg (Source: IUCLID)
LC50 inhalation rat (mg/l)	5.5 mg/l/4h (Source: IUCLID)
ATE CLP (oral)	85.000 mg/kg bodyweight
ATE CLP (vapours)	5.500 mg/l/4h
ATE CLP (dust,mist)	5.500 mg/l/4h
Sodium hydroxide (1310-73-2)	
LD50 dermal rabbit	1350 mg/kg
2-Amino-2-methyl-1-propanol (124	1-68-5) · · · · · · · · · · · · · · · · · · ·
LD50 oral rat	2900 mg/kg

SDS - Form Revision 15/02/01-D

LD50 dermal rabbit

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Skin corrosion/irritation

: Causes skin irritation.

Serious eye damage/irritation

: Causes serious eye damage.

Respiratory or skin sensitisation

: Not classified

Germ cell mutagenicity

: Not classified

Carcinogenicity

: Not classified

Reproductive toxicity

: Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure)

: Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

: Not classified

Aspiration hazard

: May cause respiratory irritation.

Symptoms/injuries after inhalation

Symptoms/injuries after skin contact

: Causes skin irritation.

Symptoms/injuries after eye contact

: Causes serious eye damage.

Symptoms/injuries after ingestion

: Harmful if swallowed.

Chronic symptoms

Suspected of damaging fertility. Suspected of damaging the unborn child.

SECTION 12: Ecological information

12.1. **Toxicity**

Ecology - general

: No information available.

Sodium nitrite (7632-00-0)	
LC50 fishes 1	0.19 mg/l 96 Hr Oncorhynchus mykiss [flow-through] (juvenile)
LC50 fish 2	0.092 - 0.13 mg/l 96 Hr Oncorhynchus mykiss [flow-through]
2-Amino-2-methyl-1-propanol (12	4-68-5)
LC50 fishes 1	190 mg/l 96 hr Lepomis macrochirus
EC50 Daphnia 1	193 mg/l 48 hr Daphnia magna
ErC50 (algae)	520 mg/l 72 hr Desmodesmus subspicatus

12.2. Persistence and degradability

FREMONT BWT 4467 Boiler Water Treatment	
Persistence and degradability	No information available.

12.3. Bioaccumulative potential

No additional information available

Mobility in soil 12.4.

No additional information available

Other adverse effects 12.5.

No additional information available

SECTION 13: Disposal considerations

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 DOT

UN number 14.1.

Not applicable

UN proper shipping name 14.2.

Not applicable

14.3. Additional information

Other information

: No supplementary information available.

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

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SECTION 15: Regulatory information

15.1. US Federal regulations

FREMONT BWT 4467 Boiler \	Nater Treatment				
All chemical substances in this	product are listed	in the EPA (Environment Pr	rotection Agency) TSCA (Toxic Substances Control Act) Inventory		
SARA Section 311/312 Hazard Classes		Immediate (acute) health hazard Delayed (chronic) health hazard			
Sodium nitrite (7632-00-0)					
Section 302 (EHS) TPQ					
Section 304 EHS RQ	(6)				
CERCLA RQ		100	lbs		
Section 313	Listed on US SARA Section 313				
Sodium hydroxide (1310-73-	2)				
Section 302 (EHS) TPQ	853				
Section 304 EHS RQ					
CERCLA RQ	1000 lbs		lbs		
Section 313	Not Listed	on US SARA Section 313	· ×		
Acrylic acid (79-10-7)					
Section 302 (EHS) TPQ					
Section 304 EHS RQ					
CERCLA RQ		5000	lbs		
Section 313	Listed	on US SARA Section 313			

15.2. International regulations

No additional information available

15.2.2. National regulations

15.3. US State regulations

Sodium nitrite (7632-00-0)

State or local regulations

- RTK U.S. Massachusetts Right To Know List
- RTK U.S. New Jersey Right to Know Hazardous Substance List RTK U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

Sodium hydroxide (1310-73-2)

State or local regulations

- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations RTK U.S. Massachusetts Right To Know List
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- RTK U.S. Pennsylvania RTK (Right to Know) List

2-Amino-2-methyl-1-propanol (124-68-5)

State or local regulations

- RTK U.S. Massachusetts Right To Know List
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- RTK U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

Indication of changes

: Revision 1.0: New SDS Created.

Revision date

: 02/23/2015

Other information

: Author: BCS.

NFPA health hazard

: 2

NFPA fire hazard

: 0

NFPA reactivity

: 0



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HMIS III Rating			,		
Health				:	2
Flammability					0
Physical	(2)		194	÷	0
Personal Protection				į	

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