

BOILER MP**1 PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: BOILER MP
Common Name: MIXTURE
SDS Number: 0250
Revision Date: 3/27/2015
Version: 2
Internal ID: 200C
Product Use: BOILER WATER TREATMENT
Supplier Details: U. S. Water Services
12270 43rd St. NE
St. Michael, MN 55376

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JUN 15 2015

1,2393

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2 HAZARDS IDENTIFICATION**Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

- Health, Acute toxicity, 5 Oral
- Health, Acute toxicity, 5 Dermal
- Health, Specific target organ toxicity - Single exposure, 3
- Health, Serious Eye Damage/Eye Irritation, 2 A
- Health, Skin corrosion/irritation, 3

GHS Label elements, including precautionary statements**GHS Signal Word:** WARNING**GHS Hazard Pictograms:****GHS Hazard Statements:**

- H303 - May be harmful if swallowed
- H313 - May be harmful in contact with skin
- H335 - May cause respiratory irritation
- H319 - Causes serious eye irritation
- H316 - Causes mild skin irritation

GHS Precautionary Statements:

- P102 - Keep out of reach of children.
- P281 - Use personal protective equipment as required.

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Safety

BOILER MP

P302+352 - IF ON SKIN: Wash with soap and water.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Hazards not otherwise classified (HNOC) or not covered by GHS

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

3 COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients:**

| Cas# | % | Chemical Name |
|-----------|-----|------------------|
| 1310-73-2 | < 5 | Sodium hydroxide |

4 FIRST AID MEASURES

- Inhalation:** Remove from contamination. If person has stopped breathing administer artificial respiration. Seek medical attention.
- Skin Contact:** Wash off with soap and plenty of water. Remove contaminated garments and wash or destroy. Seek medical attention if irritation develops. Consult a physician if irritation develops.
- Eye Contact:** Flush eyes with plenty of running water for 15 minutes. Seek medical attention.
- Ingestion:** If conscious, give plenty of water. If discomfort or other symptoms develop, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Most important symptoms & effects (acute & delayed): No data available

Indication of need for immediate medical attention: None

Special treatment needs: None

5 FIRE FIGHTING MEASURES

- Flammability:** Not flammable
- Flash Point:** None
- Flash Point Method:** Pensky Martens Closed cup
- Burning Rate:** No data available
- Autoignition Temp:** No data available
- LEL:** Not applicable
- UEL:** Not applicable

Extinguishing Media:

BOILER MP

Suitable: Use extinguishing media suitable for surrounding fire.

Unsuitable: No information available

Hazardous combustion products: Hazardous decomposition products formed under fire conditions- Carbon oxides, and other hazardous compounds

Unusual Fire or Explosion Hazards: None known

Special protective equipment/precautions: Wear self-contained breathing apparatus

6**ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective equipment, emergency procedures: Avoid contact with the material. See section 8 of SDS for PPE recommendations

Environmental Precautions: Keep runoff from entering drains or waterways

Spill/Leak procedures: Contain spill or leak. Dike area if necessary to prevent spill from spreading or entering sewers and waterways. Recover as much as possible then absorb remainder with inert material. Place into closed container for disposal.

Regulatory Requirements: Dispose of recovered material in accordance with all applicable state and federal regulations.

7**HANDLING AND STORAGE**

Handling Precautions: Avoid contact with eyes, skin, or clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. For industrial use only!

Storage Requirements: Keep away from children. Store in closed containers away from temperature extremes and incompatible materials.
Store in properly labeled containers in accordance with all local, state and federal guidelines.

8**EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Controls: Provide local exhaust ventilation as needed to control misting.

Personal Protective Equipment: HMIS PP, C | Safety Glasses, Gloves, Apron

Respiratory protection: If needed use MSHA/NIOSH approved respirator for dusts and mists. Seek professional advice prior to respirator selection and use. Follow all requirements of OSHA respirator regulations (29 CFR 1910.134)

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics.

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

Exposure Limits:

OSHA (TWA)/PEL): Sodium Hydroxide 2 mg/m³

NIOSH (REL): Sodium Hydroxide 2 mg/m³

BOILER MP**9 PHYSICAL AND CHEMICAL PROPERTIES**

| | | | |
|-------------------------------|------------------|------------------------------|-------------------|
| Appearance: | Clear, yellow | Odor: | Mild |
| Physical State: | Liquid | Solubility: | Complete in water |
| Odor Threshold: | Not determined | Freezing/Melting Pt.: | 30°F |
| Spec Grav./Density: | 9.26 lb/gal | Flash Point: | None |
| Viscosity: | Not determined | Vapor Density: | Not determined |
| Boiling Point: | Similar to water | Auto-ignition Temp: | Not determined |
| Partition Coefficient: | Not determined | UFL/LFL: | Not determined |
| Vapor Pressure: | Similar to water | | |
| pH: | 12-13 | | |
| Evap. Rate: | Not determined | | |
| Decomp Temp: | Not determined | | |

10 STABILITY AND REACTIVITY

| | |
|----------------------------------|--|
| Stability: | Product is stable under normal storage and use conditions. |
| Conditions to Avoid: | Avoid temperature extremes. Protect from freezing |
| Materials to Avoid: | Strong Oxidizing Agents may cause exothermic reaction, Strong Acids |
| Hazardous Decomposition: | Thermal decomposition may produce carbon oxides and other toxic compounds. |
| Hazardous Polymerization: | Will not occur. |

11 TOXICOLOGICAL INFORMATION

| | |
|--|--|
| Acute Toxicity: | Oral LD ₅₀ (rat) > 5,000 mg/kg (estimated) |
| Skin Corrosion/Irritation: | No data available |
| Serious eye damage/irritation: | No data available |
| Respiratory or skin sensitization: | No data available |
| Specific target organ toxicity (single exposure): | No data available |
| Specific target organ toxicity (repeated exposure): | No data available |
| Aspiration hazard: | No data available |
| Carcinogenicity: | No carcinogenic effects are known for the components of this product |
| Germ Cell Mutagenicity: | No mutagenic effects are known for the components of this product |
| Teratogenicity: | No teratogenic effects are known for the components of this product |

12 ECOLOGICAL INFORMATION

| | |
|---|-------------------------------------|
| Aquatic Toxicity | |
| <i>Ceriodaphnia dubia</i> | LC ₅₀ (48h) > 1,000 mg/L |
| <i>Daphnia magna</i> | LC ₅₀ (48h) > 3,000 mg/L |
| Fathead minnow | LC ₅₀ (96h) > 8,000 mg/L |
| Elimination (persistence & degradability): | No data available |
| Bioaccumulative potential: | No data available |
| Mobility in soil: | No data available |
| Other adverse effects: | No data available |

BOILER MP**13****DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

This material should be fully characterized for toxicity and possible reactivity prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

14**TRANSPORT INFORMATION**

UN1760, Corrosive liquids, n.o.s., 8, PGIII, (Sodium Hydroxide)

DOT Transportation data (49 CFR 172.101)

See section 15 of SDS for information on Reportable Quantity chemicals (RQ)

15**REGULATORY INFORMATION****Component (CAS#) [%] - CODES**

RQ(1000LBS), Sodium hydroxide (1310-73-2) [**< 5**] CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

Regulatory CODE Descriptions

RQ = Reportable Quantity

CERCLA = Superfund clean up substance

CSWHS = Clean Water Act Hazardous substances

MASS = MA Massachusetts Hazardous Substances List

OSHA WAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TSCA = Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level

TSCA: All components of this product are listed (or are not required to be listed) in the TSCA inventory

EPA / CERCLA / SARA TITLE III:

Toxic Chemical List (SARA 313): This product does not contain any chemicals subject to routine annual toxic chemical release reporting.

Extremely Hazardous Substance (SARA 302/304): This product does not contain any extremely hazardous substances subject to emergency planning requirements.

SARA 312: Acute

RCRA: Corrosive, D002

BOILER MP**16****OTHER INFORMATION**

HMIS III: Health = 2, Fire = 0, Physical Hazard = 0
HMIS PPE: C - Safety Glasses, Gloves, Apron

| HMIS | |
|---------------------|---|
| HEALTH | 2 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | C |

Author: U.S. Water Services

Revision Notes: Updated to GHS format

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