

SAFETY DATA SHEET

1. Identification

Product identifier BOILERMATE 1200S

Other means of identification Not available.

Recommended use Boiler Water Treatment

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Miura America Co., Ltd.

Address 2200 Steven B Smith Blvd
Rockmart, GA 30153

United States

Telephone Phone 678-685-0929

Toll Free 1-888-309-5574 Fax 678-685-0930

E-mail Not available.

Emergency phone number CHEMTREC 1 800-424-9300

2. Hazards Identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsSkin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory

irritation.

Precautionary statement

Prevention Keep only in original packaging. Do not breathe mist or vapor. Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye

protection/face protection.

Response Absorb spillage to prevent material-damage. If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. Specific treatment (see information on this label). If in eyes: Rinse cautiously with water for several minutes. Remove

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

Storage Store in a corrosion resistant container with a resistant inner liner. Store in a well-ventilated place.

Keep container tightly closed. Store locked up.

Disposal Dispose of container in accordance with local, regional, national and international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/Information on Ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Silicic acid, sodium salt		1344-09-8	10-30
Potassium hydroxide		1310-58-3	3-7

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Chemical name	Common name and synonyms	CAS number	%
Tetrasodium salt of ethylenediaminetetracetic acid tetrahydrate		13235-36-4	1-5
Composition comments	US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.		
	4. First Aid Measures	S	
Inhalation	If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.		
Skin contact	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Specific treatment (see information on this label). Wash contaminated clothing before reuse.		
Eye contact	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.		
Ingestion	If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor.		
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.		
Indication of immediate medical attention and special treatment needed	Treat patient symptomatically.		
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.		
	5. Fire Fighting Measur	res	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carl	bon dioxide.	
Unsuitable extinguishing media	Not available.		
Specific hazards arising from the chemical	Not available.		
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self-contained breathing apparatus.		
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.		
Specific methods	Use standard firefighting procedures and cor	nsider the hazards of other involv	ed materials.
Flammable properties	Not flammable by OSHA criteria. Not flamma	able by WHMIS criteria.	
	6. Accidental Release Mea	asures	
Personal precautions, protective equipment and emergency procedures	Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe mist or vapor. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.		
Methods and materials for containment and cleaning up	Stop leak if you can do so without risk. Dike plastic sheet to prevent spreading. Absorb in containers. Never return spills to original con area with water. Clean surface thoroughly to waterways, sewer, basements or confined an	n vermiculite, dry sand or earth an ntainers for re-use. Following proc remove residual contamination.	nd place into luct recovery, flush Prevent entry into
Environmental precautions	Do not discharge into lakes, streams, ponds	or public waters.	
	7. Handling and Stora	ge	
Precautions for safe handling	Avoid contact with eyes, skin and clothing. Wear appropriate personal protective equipment. Do not breathe mist or vapor. Use only with adequate ventilation. Observe good industrial hygiene practices. Wash thoroughly after handling. When using do not eat or drink.		
Conditions for safe storage, including any incompatibilities	Store in a corrosion resistant container with a direct sunlight. Keep out of the reach of child		cool, dry place out c

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8. Exposure Controls/Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components Value Type Potassium hydroxide (CAS Ceiling 2 mg/m3

1310-58-3)

US. NIOSH: Pocket Guide to Chemical Hazards

Value Components

Potassium hydroxide (CAS Ceiling 2 mg/m3

1310-58-3)

Biological limit values No biological exposure limits noted for the ingredient(s).

Chemicals listed in section 3 that are not listed here do not have established limit values for **Exposure guidelines**

ACGIH or OSHA PEL.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Impervious gloves. Confirm with reputable supplier first.

Other As required by employer code.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134),

CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards Not applicable.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks

and immediately after handling the product. When using do not eat or drink.

9. Physical and Chemical Properties

Transparent **Appearance** Physical state Liquid. Liquid Form Colorless Color Odor Very little Odor threshold Not available.

pН 11.7 (1% water solution) <= 23 °F (<= -5 °C) Melting point/freezing point

Initial boiling point and boiling

range

> 212 °F (> 100 °C)

Other information

Pour point Not available.

1.25 Specific gravity

Partition coefficient

Not available.

(n-octanol/water)

Not available. Flash point Not available. **Evaporation rate** Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%) Not available. Not available Vapor pressure

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Relative density

Not available.

Solubility(ies)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Not available.

10. Stability and Reactivity

Reactivity Reacts violently with acids. This product may react with strong oxidizing agents.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Do not mix with other chemicals.

Incompatible materials Oxidizing agents. Acids. Caustics. Reducing agents. Organic materials.

Hazardous decomposition

products

May include and are not limited to: Oxides of potassium. Oxides of sodium. Oxides of nitrogen.

Oxides of sulfur.

11. Toxicological Information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system.

Skin contact Causes severe skin burns.

Eye contact Causes serious eye damage.

Ingestion May cause stomach distress, nausea or vomiting.

Symptoms related to the Burning pain and severe corrosive skin damage.

physical, chemical and toxicological characteristics

Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and

blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity May cause respiratory irritation.

Components Species Test Results

Potassium hydroxide (CAS 1310-58-3)

Acute Dermal

LD50 Rat > 1260 mg/kg, CCOHS

Inhalation

LC50 Not available

Oral

LD50 Rat 333 mg/kg, ECHA

Silicic acid, sodium salt (CAS 1344-09-8)

Acute

Dermal

LD50 Rat > 5000 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Rat > 2.1 mg/L, 4 Hours, ECHA

Oral

LD50 Rat 3400 mg/kg, ECHA

Tetrasodium salt of ethylenediaminetetracetic acid tetrahydrate (CAS 13235-36-4)

Acute

Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Rat 1700 mg/kg, ECHA

Skin corrosion/irritation Causes severe skin burns.

Exposure minutes Not available.
Erythema value Not available.

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Oedema value Not available

Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity value Not available. Not available. Iris lesion value Conjunctival reddening Not available.

value

Conjunctival oedema value Not available. Recover days Not available.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity Not classified. Carcinogenicity Not classified.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed

Not classified. Reproductive toxicity

Specific target organ toxicity -

single exposure

Respiratory tract irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Not classified. **Aspiration hazard**

Chronic effects Prolonged inhalation may be harmful.

Further information Not available.

12. Ecological Information

See below **Ecotoxicity**

Ecotoxicological data

Components **Species Test Results**

Potassium hydroxide (CAS 1310-58-3)

Aquatic

LC50 Fish Western mosquitofish (Gambusia affinis) 80 mg/L, 96 hours

Silicic acid, sodium salt (CAS 1344-09-8)

Aquatic

EC50 Crustacea Water flea (Ceriodaphnia dubia) 0.28 - 0.57 mg/L, 48 hours Fish LC50 Western mosquitofish (Gambusia affinis) 1800 mg/L, 96 hours

Tetrasodium salt of ethylenediaminetetracetic acid tetrahydrate (CAS 13235-36-4)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 472 - 500 mg/L, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential No data available. Mobility in soil No data available. Mobility in general Not available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions Dispose of container in accordance with local, regional, national and international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

#36582 Page: 5 of 7 Issue date 18-September-2023 Waste from residues / unused

Contaminated packaging

products

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number UN1760

Corrosive liquid, n.o.s Proper shipping name **Technical name** Potassium hydroxide

Hazard class Packing group

Special provisions IB3, T7, TP1, TP28

Packaging exceptions 154

DOT



15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Potassium hydroxide (CAS 1310-58-3) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely

hazardous substance

Classified hazard Corrosive to metal Skin corrosion or irritation categories

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug Not regulated.

Administration (FDA)

US state regulations See below

US - Illinois Chemical Safety Act: Listed substance

Potassium hydroxide (CAS 1310-58-3)

US - Louisiana Spill Reporting: Listed substance

Potassium hydroxide (CAS 1310-58-3) Listed.

US - Minnesota Haz Subs: Listed substance

Potassium hydroxide (CAS 1310-58-3)

Potassium hydroxide

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

US. Massachusetts RTK - Substance List

Potassium hydroxide (CAS 1310-58-3)

US. New Jersey Worker and Community Right-to-Know Act

Potassium hydroxide (CAS 1310-58-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Potassium hydroxide (CAS 1310-58-3)

US. Rhode Island RTK

Potassium hydroxide (CAS 1310-58-3)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Country(s) or region Inventory name

On inventory (yes/no)*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

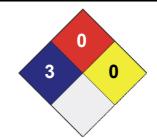
Ye

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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01

Further information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Other information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).

Prepared by

Dell Tech Laboratories Ltd. Phone: (519) 858-5021