

SAFETY DATA SHEET

1. Identification

Product identifier BOILERMATE 2100D

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 hazards Not classified.

Health hazardsSkin corrosion/irritationCategory 1B

Serious eye damage/eye irritation Category 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 Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory

irritation.

Precautionary statement

Prevention 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.

ResponseIf swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If inhaled: Remove person to fresh air

and keep comfortable for breathing. 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. Wash contaminated clothing before reuse. Specific treatment (see information

on this label).

Storage 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 nameCommon name and synonymsCAS number%Tetrasodium salt of13235-36-410-30

ethylenediaminetetracetic acid

tetrahydrate

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Chemical name	Common name and synonyms	CAS number	%
2-Propenoic acid, homopolymer sodium salt		9003-04-7	5-10
Sodium hydroxide		1310-73-2	1-5
Composition comments	US GHS: The exact percentage (concentration secret in accordance with paragraph (i) of §19		thheld as a trade
	4. First Aid Measures	3	
nhalation	If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER if you feel unwell.		
Skin contact	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a poison center or doctor. Specific treatment (see information on this label).		
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.		
ngestion	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. May cause respiratory irritation.		
ndication of immediate medical attention and special reatment needed	Provide general supportive measures and tre	at symptomatically. Symptoms	may be delayed.
General information	If you feel unwell, seek medical advice (show personnel are aware of the material(s) involve this safety data sheet to the doctor in attendareach of children.	ed and take precautions to pro	ect themselves. Sho
	5. Fire Fighting Measur	es	
Suitable extinguishing media	Dry chemical. Water spray. Foam. Carbon die	oxide.	
Unsuitable extinguishing media	Not available.		
Specific hazards arising from the chemical	Not applicable.		
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothin	ng including self-contained brea	thing apparatus.
Fire fighting equipment/instructions	Move containers from fire area if you can do	so without risk.	
Specific methods	Use standard firefighting procedures and con		lved materials.
Flammable properties	Not flammable by OSHA criteria. Not flamma	ble by WHMIS criteria.	
	6. Accidental Release Mea	sures	
Personal precautions, protective equipment and emergency procedures	Keep people away from and upwind of spill/le containers or spilled material unless wearing ventilation. Local authorities should be advise personal protection, see section 8 of the SDS	appropriate protective clothing ed if significant spillages canno	. Ensure adequate
Methods and materials for containment and cleaning up	Stop leak if you can do so without risk. Dike t plastic sheet to prevent spreading. Absorb in containers. Never return spills to original cont residual contamination. Following product rec waterways, sewer, basements or confined an	vermiculite, dry sand or earth a tainers for re-use. Clean surfac covery, flush area with water. P	and place into e thoroughly to remo revent entry into
Environmental precautions	Do not discharge into lakes, streams, ponds	or public waters.	
	7. Handling and Storag	ge	
Precautions for safe handling	Avoid contact with eyes, skin and clothing. Avappropriate personal protective equipment. Uhygiene practices in handling this material. Wor drink.	lse only with adequate ventilati	on. Use good industr
Conditions for safe storage, ncluding any incompatibilities	Store locked up. Store in a cool, dry place ou	t of direct sunlight. Keep out of	the reach of children

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8. Exposure Controls/Personal Protection

Occupational exposure limits

Sodium hydroxide (CAS

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

 Components
 Type
 Value

 Sodium hydroxide (CAS
 PEL
 2 mg/m3

1310-73-2)

US. ACGIH Threshold Limit Values

Components Type Value

Ceiling

1310-73-2)

US. NIOSH: Pocket Guide to Chemical Hazards

 Components
 Type
 Value

 Sodium hydroxide (CAS
 Ceiling
 2 mg/m3

1310-73-2)

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

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

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.

2 mg/m3

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.

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

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

Appearance Transparent
Physical state Liquid.
Form Liquid
Color Pale yellow
Odor Very little
Odor threshold Not available.

pH 10.7 (1% water solution)

9.4 (100% water solution)

Melting point/freezing point Initial boiling point and boiling Not available. > 212 °F (> 100 °C)

range

Other information

Pour point Not available.

Specific gravity 1.15

Partition coefficient (n-octanol/water)

Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower Not a

(%)

Not available.

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Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not

Not available.

Explosive limit - upper (%)

Vapor pressure

Vapor density

Relative density

Solubility(ies)

Auto-ignition temperature

Not available.

Not available.

Not available.

Not available.

Not available.

10. Stability and Reactivity

Reactivity

Viscosity

Reacts vigorously with acids.

Possibility of hazardous

Hazardous polymerization does not occur.

reactions

Chemical stability Stable under recommended storage conditions.

Acide

Not available

Conditions to avoidDo not mix with other chemicals.

Incompatible materials

Hazardous decomposition

products

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

11. Toxicological Information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns.

Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns. May cause stomach distress, nausea or vomiting.

Symptoms related to the physical, chemical and toxicological characteristics

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. May cause respiratory irritation.

Information on toxicological effects

Acute toxicity See below.

Components Species Test Results

2-Propenoic acid, homopolymer, sodium salt (CAS 9003-04-7)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg, HSDB

Inhalation

LC50 Not available

Oral

LD50 Rat > 5000 mg/kg, HSDB

Sodium hydroxide (CAS 1310-73-2)

Acute

Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Rabbit 325 mg/kg, ECHA

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

Acute

Dermal

LD50 Not available

Inhalation

LC50 Not available

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Components **Species Test Results**

Oral

LD50 Rat 1700 mg/kg, ECHA

Causes severe skin burns. Skin corrosion/irritation

Not available. **Exposure minutes** Erythema value Not available. Not available. Oedema value

Serious eye damage/eye

irritation

Causes serious eye damage.

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

value

Recover days

Not available Conjunctival oedema value Not available.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

Germ cell mutagenicity Non-hazardous by OSHA criteria.

Carcinogenicity Non-hazardous by OSHA criteria. See below.

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.

Reproductive toxicity Non-hazardous by OSHA criteria.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified

Not an aspiration hazard. **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**

Sodium hydroxide (CAS 1310-73-2)

Aquatic

EC50 Crustacea Water flea (Ceriodaphnia dubia) 34.59 - 47.13 mg/L, 48 hours

LC50 Western mosquitofish (Gambusia affinis) 125 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

No data is available on the degradability of this product. Persistence and degradability

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

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

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.

Waste from residues / unused

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).

Contaminated packaging 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

Proper shipping name Corrosive Liquids, N.O.S

Technical name Tetrasodium salt of ethylenediaminetetracetic acid tetrahydrate

Hazard class Packing group

IB3, T7, TP1, TP28 **Special provisions**

Packaging exceptions 154

DOT



15. Regulatory Information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US** federal regulations

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)

Sodium hydroxide (CAS 1310-73-2) 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

Skin corrosion or irritation Classified hazard

Serious eye damage or eye irritation categories

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug Administration (FDA)

Not regulated.

US state regulations

This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm. See below

US - Illinois Chemical Safety Act: Listed substance

Sodium hydroxide (CAS 1310-73-2)

US - Louisiana Spill Reporting: Listed substance

Sodium hydroxide (CAS 1310-73-2) Listed.

US - Minnesota Haz Subs: Listed substance

Sodium hydroxide (CAS 1310-73-2) Sodium hydroxide

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

Not listed.

US. Massachusetts RTK - Substance List

Sodium hydroxide (CAS 1310-73-2)

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

Sodium hydroxide (CAS 1310-73-2)

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

Sodium hydroxide (CAS 1310-73-2)

US. Rhode Island RTK

Sodium hydroxide (CAS 1310-73-2)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

Country(s) or region Inventory name

On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

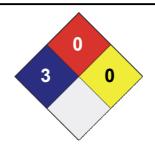
Yes

*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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Version # 0

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

document.

Other information 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). For an updated SDS, please contact the supplier/manufacturer listed on the first

page of the document.

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