

# **Safety Data Sheet**

Issue Date: 17-Nov-2014 Revision Date: 02-Sep-2015 Version 2

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name United 312 BOILERMATE

Other means of identification

SDS # UNITED-312

UN/ID No UN1824

Recommended use of the chemical and restrictions on use

Recommended Use Synthetic Polymer Liquid Steam Boiler Treatment.

**Uses Advised Against** For industrial and institutional use only.

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

**Supplier Address** 

United Laboratories, Inc. 320 37th Avenue St. Charles, IL 60174 www.unitedlabsinc.com www.unitedlabsinc.ca

**Emergency Telephone Number** 

Company Phone Number 800-323-2594 (to reorder)

Emergency Telephone (24 hr) INFOTRAC 1-800-535-5053 (North America)

1-352-323-3500 (International)

# 2. HAZARDS IDENTIFICATION

Appearance Pale amber liquid Physical State Liquid Odor Very slight

#### Classification

| Skin corrosion/irritation         | Category 1 Sub-category B |
|-----------------------------------|---------------------------|
| Serious eye damage/eye irritation | Category 1                |

### Signal Word Danger

#### **Hazard Statements**

Causes severe skin burns and eye damage



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#### **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

#### **Precautionary Statements - Response**

Immediately call a poison center or doctor/physician.

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/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

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

Immediately call a poison center or doctor/physician.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

# **Precautionary Statements - Storage**

Store according to local rules and regulations.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name        | CAS No    | Weight-% |
|----------------------|-----------|----------|
| Sodium Metabisulfite | 7681-57-4 | 1-10     |
| Caustic Soda         | 1310-73-2 | 1-10     |
| Soda Ash             | 497-19-8  | 1-10     |

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

#### **First Aid Measures**

**General Advice** Immediately call a poison center or doctor/physician.

**Eye Contact** Flush with plenty of water for at least 15 minutes while holding eyelids open. Immediately

call a poison center or doctor/physician.

**Skin Contact** Flush area with water while removing contaminated clothing. Follow by washing with soap

and water. If irritation persists, call a physician or poison control center.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Apply

CPR if needed. Immediately call a poison center or doctor/physician.

Ingestion Rinse mouth. Do not induce vomiting. If conscious, dilute with several glasses of water. Call

a physician or poison control center immediately.

### Most important symptoms and effects

**Symptoms** Causes severe skin burns and eve damage. Inhalation can cause damage to the upper

respiratory tract and to the lung tissue depending on the extent of the exposure. Ingestion

can cause diarrhea, vomiting, burns, tissue ulceration and internal bleeding.

# Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

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#### **Suitable Extinguishing Media**

Water. Foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable Extinguishing Media Not determined.

# **Specific Hazards Arising from the Chemical**

May produce sulfur dioxide upon extreme heating. May react with active metals (aluminum, zinc and magnesium) liberating hydrogen gas.

Hazardous Combustion Products When strongly heated, as in a fire, this product may produce carbon dioxide, carbon monoxide and sulfur dioxide.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions**Use personal protective equipment as required.

# Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Spills should be contained and stored in a safe place to await proper treatment or disposal.

Wear adequate personal protective equipment and clothing.

#### 7. HANDLING AND STORAGE

# Precautions for safe handling

Advice on Safe Handling Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin

thoroughly after handling. Wear protective gloves/protective clothing and eye/face

protection. Remove contaminated clothing and wash before reuse.

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

Storage Conditions Store locked up. Keep in a properly labeled, tightly closed container and store in a cool, dry

well-ventilated area. Do not let containers freeze as they may split or rupture.

Incompatible Materials Will react vigorously with strong acids and oxidizers. Will react with active metals

(aluminum, zinc and magnesium) liberating hydrogen gas.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

| Chemical Name                     | ACGIH TLV                    | OSHA PEL  | NIOSH IDLH   |
|-----------------------------------|------------------------------|---|--|
| Sodium Metabisulfite<br>7681-57-4 | TWA: 5 mg/m <sup>3</sup>     | (vacated) TWA: 5 mg/m <sup>3</sup>                              | TWA: 5 mg/m <sup>3</sup>                                   |
| Caustic Soda<br>1310-73-2         | Ceiling: 2 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup> | IDLH: 10 mg/m <sup>3</sup><br>Ceiling: 2 mg/m <sup>3</sup> |

#### Appropriate engineering controls

**Engineering Controls** Provide adequate ventilation and local exhaust is generally adequate. Eyewash stations.

Showers.

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Chemical safety goggles are recommended.

**Skin and Body Protection**Chemical resistant gloves are recommended. Shirts with long sleeves are recommended.

Chemical resistant apron is recommended.

Respiratory Protection None required if good ventilation is maintained. If TLV is exceeded, use a NIOSH/ MSHA

approved respirator.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical State Liquid

AppearancePale amber liquidOdorVery slightColorPale amberOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

**pH** 12-13

Melting Point/Freezing Point

Boiling Point/Boiling Range

Not determined
>100 °C / >212 °F

Flash Point None

Evaporation Rate ~1.0 (Water = 1)

Flammability (Solid, Gas)
Upper Flammability Limits
Lower Flammability Limit
Vapor Pressure
Vapor Density
Liquid-Not applicable
Not determined
Not determined
Not determined
Not determined

Specific Gravity 1.16 (Water = 1)

**Water Solubility** Completely soluble Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

VOC Content None

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

### **Chemical Stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

Under normal conditions of storage and use, hazardous polymerization will not occur.

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#### **Conditions to Avoid**

Keep out of reach of children.

#### **Incompatible Materials**

Will react vigorously with strong acids and oxidizers. Will react with active metals (aluminum, zinc and magnesium) liberating hydrogen gas.

# **Hazardous Decomposition Products**

When strongly heated, as in a fire, this product may produce carbon dioxide, carbon monoxide and sulfur dioxide.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns.

**Inhalation** Do not inhale.

**Ingestion** Do not ingest.

# **Component Information**

| Chemical Name                  | Oral LD50          | Dermal LD50             | Inhalation LC50                              |
|--------------------------------|--------------------|-------------------------|--|
| Sodium Metabisulfite 7681-57-4 | = 1131 mg/kg (Rat) | > 2 g/kg (Rat)          | -  |
| Caustic Soda<br>1310-73-2      | -                  | = 1350 mg/kg ( Rabbit ) | -  |
| Sodium Chloride<br>7647-14-5   | = 3 g/kg ( Rat )   | > 10 g/kg ( Rabbit )    | > 42 g/m³(Rat)1 h                            |
| Soda Ash<br>497-19-8           | = 4090 mg/kg (Rat) | -                       | -  |
| Sodium Sulfite<br>7757-83-7    | = 820 mg/kg (Rat)  | -                       | > 5.5 mg/L (Rat) 4 h > 22 mg/L (<br>Rat) 1 h |

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** Group 3 IARC components are "not classifiable as human carcinogens".

| Chemical Name        | ACGIH | IARC    | NTP | OSHA |
|----------------------|-------|---------|-----|------|
| Sodium Metabisulfite |       | Group 3 |     |      |
| 7681-57-4            |       | •       |     |      |

# Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

#### Numerical measures of toxicity

Not determined.

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

Not determined.

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#### Persistence/Degradability

Not determined.

#### Bioaccumulation

Not determined.

# **Mobility**

Not determined.

#### **Other Adverse Effects**

Not determined.

# 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and

regulations.

# California Hazardous Waste Status

| Chemical Name | California Hazardous Waste Status |
|---------------|-----------------------------------|
| Caustic Soda  | Toxic                             |
| 1310-73-2     | Corrosive                         |
| Soda Ash      | Corrosive                         |
| 497-19-8      |                                   |

# 14. TRANSPORT INFORMATION

Please see current shipping paper for most up to date shipping information, including Note

exemptions and special circumstances. Shipping in 6 gallon container under DOT CFR49

173.154 can ship as Consumer Commodity ORM-D until December 31, 2020.

DOT

UN/ID No UN1824

**Proper Shipping Name** Sodium hydroxide solution

**Hazard Class Packing Group** Ш

IATA

UN/ID No UN1824

**Proper Shipping Name** Sodium hydroxide solution

**Hazard Class Packing Group** Ш

**IMDG** 

UN/ID No UN1824

**Proper Shipping Name** Sodium hydroxide solution

**Hazard Class Packing Group** Ш

# 15. REGULATORY INFORMATION

#### **International Inventories**

| Chemical Name        | TSCA    | DSL | NDSL | EINECS  | ELINCS | ENCS    | IECSC | KECL    | PICCS | AICS |
|----------------------|---------|-----|------|---------|--------|---------|-------|---------|-------|------|
| Sodium Metabisulfite | Present | Χ   |      | Present |        | Present | Χ     | Present | Χ     | Χ    |
| Chemical Name        | TSCA    | DSL | NDSL | EINECS  | ELINCS | ENCS    | IECSC | KECL    | PICCS | AICS |
| Caustic Soda         | Present | Χ   |      | Present |        | Present | X     | Present | Χ     | Χ    |
| Soda Ash             | Present | Х   |      | Present |        | Present | Х     | Present | Х     | Х    |

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#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

# **CERCLA**

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---------------|--------------------------|----------------|--------------------------|
| Caustic Soda  | 1000 lb                  |                | RQ 1000 lb final RQ      |
| 1310-73-2     |                          |                | RQ 454 kg final RQ       |

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# **CWA (Clean Water Act)**

| Chemical Name | CWA - Reportable<br>Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous<br>Substances |
|---------------|--------------------------------|------------------------|---------------------------|-------------------------------|
| Caustic Soda  | 1000 lb                        |                        |                           | X                             |

#### **US State Regulations**

# **California Proposition 65**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

# U.S. State Right-to-Know Regulations

| Chemical Name                     | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------------|------------|---------------|--------------|
| Sodium Metabisulfite<br>7681-57-4 | X          | X             | X            |
| Caustic Soda<br>1310-73-2         | X          | X             | X            |

# **16. OTHER INFORMATION**

NFPA Health Hazards

Not determined Health Hazards Flammability Not determined Flammability Instability
Not determined
Physical Hazards

Special Hazards Not determined Personal Protection

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N+P

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# **Disclaimer**

**HMIS** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**