Boiler

Safety Data Sheet

Issue Date 05-Nov-2015 **Revision Date** 06-Apr-2022 **Version** 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Product Name United E322 BOILERMATE SUPER T

Other means of identification
SDS# UNITED E322

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

Emergency telephone number
Emergency Telephone 800-323-2594 (to reorder)
INFOTRAC 1-800-535-5053 (North America)
1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Appearance Light Amber Color **Physical State** Liquid **Odor** Slight Odor

General
To the best of our knowledge, this SDS is prepared to comply with US OSHA 29CFR1910.1200 and other governmental agencies both domestic and foreign. Hazard and precautionary statements are based on maximum listed concentrations of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29CFR1910.1200) and/or other governmental agencies.

GHS Classification

Acute toxicity, oral	Category 5
Skin corrosion, irritation	Category 2B
Eye damage/irritation	Category 2A

Signal Word
Warning

Label elements



Hazard statements
May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause long lasting harmful effects to aquatic life.

Precautionary statement
Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/ eye protection/face protection. Wash hands thoroughly after handling.

Response
Wash thoroughly after handling. **If swallowed**: Rinse mouth. Do not induce vomiting. **If on skin (or hair)**: Take off immediately all contaminated clothing. Rinse skin with water/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. If eye irritation persists: Get medical advice/attention.

Storage
Store away from incompatible materials.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	% by Weight
Sodium Hydroxide 50%	1310-73-2	5-10
Sodium Glucoheptonate	31138-65-5	10-20
Sodium Polyacrylate	9003-04-7	10-20

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

Skin Contact Take off immediately all contaminated clothing. Rinse skin with water/shower for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Wash contaminated clothing before reuse. Acute and delayed symptoms: Causes skin irritation. May include localized redness, swelling, itching,

Eye contact Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.

Inhalation Remove individual to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. Acute and delayed symptoms and effects: May cause respiratory irritation. Symptoms may include burning pain in the nose and throat, coughing.

Ingestion Rinse mouth. Do not induce vomiting. Immediately call a poison center or doctor. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person. Acute and delayed symptoms and effects: May cause gastrointestinal irritation. May include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Most important symptoms/effects, acute and delayed. The most important known symptoms and effects are described in the labelling (see Section 2) and/or in Section 11.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media No information available.

Special hazards arising from the chemical
None known other than material can splatter above 100°C/212°F.

Protective equipment and precautions for firefighters
Avoid any skin contact. Effects of contact or inhalation may be delayed. Fire may produce irritation, corrosive and/or toxic gases. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in the fire situations only; it is not effective in spill situations where direct contact with the substance is possible.

Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions — Wear respiratory protection if necessary. Avoid breathing gas, mist, vapors or spray. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see Section 8.

Environmental precautions

Environmental precautions — Do not let product enter drains.

Methods and material for containment and cleaning up

Methods for containment and clean up — Stop leak if you can do it without risk. Sweep up and shovel into suitable containers for disposal.

See Section 13 for further disposal information.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling — Do not swallow. Avoid breathing mist, vapors, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use in a well-ventilated area. See Section 8 for personal protective equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions — Store away from incompatible materials. Keep out of reach of children. See Section 10 for incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits — Exposure limits noted for the ingredient(s).

Chemicals	OSHA PEL/TWA STEL	ACGIH TLV/TWA STEL
Sodium Hydroxide 50% 1310-73-2	2 mg/m^3	2 mg/m^3
Sodium Glucoheptonate 31138-65-5	None Established	None Established
Sodium Polyacrylate 9003-04-7	None Established	None Established

Appropriate engineering controls

Appropriate Engineering Controls — Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection	Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US or EN 166 (EU). Ensure that eyewash stations and/or safety showers are close to the workstation location if working with concentrated product.
Skin and body protection	Wear protective gloves. Consult manufacturer specifications for further information. Wear protective clothing. Clothing with full length sleeves and pants should be worn. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	Where risk assessment shows air purifying respirators are appropriate, use a full-face respirator with multipurpose combination (US) or type ABEK (EN14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Thermal hazards	No information available.
Control banding approach	No information available.
Environmental exposure controls	Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Color	Light amber
Odor	Very slight odor

Property	Values	Remarks • Method
pH	12+	
Specific Gravity	No information available	
Percent volatile	No information available.	
Melting point/freezing point	Approximately 32°F (freeze point)	
Flash point	No information available.	
Boiling point and Boiling range	212°F+/-	
Evaporation rate	1.00	
Flammability (solid, gas)	Non-flammable.	
Upper flammability limit:	No information available.	
Lower flammability limit:	No information available.	
Vapor pressure	No information available.	
Vapor density	No information available.	
Water solubility	Complete.	
Partition coefficient	No information available.	
Auto-ignition temperature	No information available.	
Decomposition temperature	No information available.	
Viscosity	No information available.	
VOC (weight %)	None	

10. STABILITY AND REACTIVITY

Reactivity

Contact with incompatible materials. Sources of ignition. Exposure to heat.

Chemical stability
This product is stable under normal storage and handling conditions.

Possibility of hazardous reactions.
No information available.

Conditions to avoid
Heat, flames and sparks. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

Incompatibility:
Avoid contact with Strong Acids, Strong Alkalis, Oxidizers or any other type of reactive material.

Hazardous Decomposition Products
There are no known hazardous decomposition products for this material unless the material is burned in which case undetermined evolution of toxic gases may occur.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Eyes, Ingestion, Inhalation and Skin.

Product Information

Inhalation May cause respiratory irritation to respiratory system.

Eye contact Causes serious eye irritation.

Skin Contact Causes skin irritation.

Ingestion May cause gastrointestinal irritation.

Chemical	Dermal LD_{50}	Inhalation LC_{50}	Oral LD_{50}
Sodium Hydroxide 1310-73-2	500 mg (Rabbit) (Severe irritation) 50mg/24 hr. (Rabbit)	-	500mg (Rabbit)
Sodium Glucoheptonate 31138-65-5	-	-	2754 mg/kg (Rat)
Sodium Polyacrylate 9003-04-7	-	-	16000 mg/kg (Rat)

Skin irritation Causes skin irritation. May include localized redness, swelling and itching.
Eye damage/eye irritation Causes serious eye irritation. May include signs of cloudy appearance of the cornea, chemical burns, severe pain, tearing.
Respiratory Sensitization Not expected to be a respiratory sensitizer.
Skin Sensitization No information available.
Reproductive toxicity No information available.
Carcinogenicity This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH and NTP or EPA Classification. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Germ cell mutagenicity No information available.
STOT/single and repeated exposure No information available.
Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
No information available.

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Soil Mobility
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, State and local regulations. Local regulations may be more stringent than State or Federal requirements.
Local disposal regulation	Dispose in accordance with all applicable regulations.
Cleaning/disposal	Dispose of an unused product.
Waste treatment	Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, State and local regulations.
Sewage disposal	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewer.
Other disposal recommendations	Triple rinse the empty containers with water before disposal to reconditioned or land fill or garbage.

14. TRANSPORT INFORMATION

DOT
Not Regulated.

Reportable Quantity (RQ) 1,000 lb., Contains Sodium Hydroxide

IATA
Not Regulated.

IMDG
Not Regulated.

Marine Pollutant - No

15. REGULATORY INFORMATION

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory-All Listed

SARA 302 Extremely Hazardous Substance
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 hazard categories
Chronic Health Hazard.

SARA 313 (TRI reporting)
This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (40CFR302) RQ: 1,000 lb., Contain Sodium Hydroxide.

US State Regulations
As a product blend, the materials are generally not listed. Check with your local state regulatory board for more detailed information regarding the specific components of this product.

California Proposition 65
This product does not contain a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

State Right-to-Know Regulations
Sodium Hydroxide: 1310-73-2 – Massachusetts, New Jersey and Pennsylvania

16. OTHER INFORMATION

HMIS	**Health hazards** 1	**Flammability** 0	**Reactivity** 0	**Personal protection** C
NFPA	**Health hazards** 1	**Flammability** 0	**Physical hazard** 0	**Personal protection** W

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Revision Note	Regulatory Update

Disclaimer
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