Safety Data Sheet

Issue Date 17-Dec-2010 **Revision Date** 5-Nov-2015 **Version** 1

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
www.unitedlabsinc.ca

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 Dark Amber Color **Physical State** Liquid **Odor** Slight Odor

Signal Word

Warning

Label elements



Hazard statements

Harmful if swallowed. Causes mild skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause long lasting harmful effects to aquatic life.

Precautionary statement
Prevention
Keep out of reach of children. Keep container tightly closed. Do not get in eyes, on skin or on clothing.

Response
Wash thoroughly after handling. Use personal protective equipment as required.

Storage
Store locked up.

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

Hazard(s) not otherwise classified (HNOC)
None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	% by Weight
Sodium Hydroxide	1310-73-2	0-10
1-Hydroxyethylidene-1 1-diphosphonic Acid	2809-21-4	0-10
Polyacrylic Acid based Polymeric	9003-04-7	5-20
Non-Hazardous Ingredient	-	60-95

4. FIRST AID MEASURES

First aid measures

Skin Contact Wash affected areas thoroughly with soap and water for at least 15 minutes. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention if any irritation persists.

Eye contact Flush eye with a large amount of water for 15 minutes. Seek medical attention immediately if any irritation persists. After first aid, get appropriate in-plant, paramedic or community medical support.

Inhalation Remove individual to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen. Call a physician if any difficulties persist.

Ingestion If person can swallow, give 2 glasses of water to drink. Do not induce vomiting. After first aid, seek appropriate in-plant, paramedic, or community medical support. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Water fog. Alcohol foam. Dry chemical powder. 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
Wear full protective clothing and NIOSH approved SCBA while putting out fire.

Fire-fighting equipment/special instructions
Do not release runoff from fire control methods to sewers or waterways. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face operated in pressure-demand or positive-pressure mode.

General fire hazards
None known other than material can splatter above 100°C/212°F.

Hazardous combustion products
Unknown but carbon monoxide may be released on burning.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Small spills: Absorb spill with paper towel or similar absorbent; or flush to sewer or ground with large amounts of water. Large spills: Dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Environmental precautions

Environmental precautions Follow applicable OSHA/CERCLA or any other regulations (29 CFR 1910.120) as well as any state or local regulations that may apply.

Methods and material for containment and cleaning up

Methods for containment and clean up Absorb spill with vermiculite, oil dry or similar non-reactant absorbent. Solidified product represents no environmental hazard. Accumulate the absorbed materials and dispose of according to federal, state and local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use the recommended safety controls and personal protective equipment as outlined. Fully review all data before handling of the material itself. Avoid contact with skin or eyes. Avoid breathing dust or mist. Keep from contact with clothing and other combustible materials. Observe good personal hygiene and housekeeping practices. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Do not store in direct sunlight. Store in a tightly closed container. Store in a cool dry, well ventilated area. Do not store this material near any strong acids, bases, oxidizers, flammables or any other type of reactive material. Do not expose the material to temperature extremes. Do not store product above 77°. Store materials according to all local, state and federal guidelines that are established for non-regulated chemical products.

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 1310-73-2	2 mg/m^3	2 mg/m^3
1-Hydroxyethylidene-1,1-diphosphonic Acid 2809-21-4	None Established	None Established
Polyacrylic Acid based Polymeric 9003-04-7	None Established	None Established

Appropriate engineering controls

Engineering Controls Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec.2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear protective eyeglasses or chemical safety goggles, per OSHA eye-and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses. At a minimum wear safety glasses with side shields. Make emergency eyewash stations, safety quick-drench showers, and washing facilities available in work area.

Skin and body protection Wear chemical resistant gloves and aprons to prevent prolonged or repeated skin contact. Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from shoes and clean personal protective equipment.

Respiratory protection Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessel, or storage tanks), wear a SCBA. Warning, Air purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

General Hygiene Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Consistent use of afore-mentioned personal protective equipment is essential in preventing injuries or irritation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Color Dark amber
Odor Very slight odor

Property	Values	Remarks • Method
pH	12+/-	
Specific Gravity	1.07+/-	
Percent volatile	85%	
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	Same as H2O
Vapor density	Same as H2O.
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
This product is stable and nonreactive under normal conditions of use, storage, and transport.

Chemical stability
This product is stable at room temperature in closed containers under normal storage and handling conditions. However, avoid temperature extremes.

Possibility of Hazardous Polymerization
Hazardous polymerization will not occur.

Conditions to avoid
Excessive temperature, contact with any type of reactive chemicals.

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 product irritation to respiratory system.
Eye contact	Irritation to eyes & possible burning if materials are not immediately rinsed from the eye.
Skin Contact	Irritation to skin.
Ingestion	No test for this blend. Harmful if swallowed.

Chemical	Dermal LD_{50}	Inhalation LC_{50}	Oral LD_{50}
Sodium hydroxide 1310-73-2	500 mg/24 hr (Rabbit, severe irritation) 50mg/24 hr. (Rabbit, severe irritation)	-	500mg/24 hr. (Rabbit)
1-Hydroxyethylidene-1 ,1-diphosphonic acid 2809-21-4	Irritant	-	2400 mg/kg (Rat) 1800 mg/kg (Mouse)
Polyacrylic acid based Polymeric 9003-04-7	Slightly irritating to skin and eyes	-	16000 mg/kg (Rat)

Skin irritation Causes irritation to skin.
Eye damage/eye irritation Irritation to eyes and possible burning if materials are not immediately rinsed from the eye.
Respiratory Sensitization Not expected to be a respiratory sensitizer.
Skin Sensitization This product is not expected to cause skin sensitization.
Reproductive toxicity This product is not expected to cause reproductive or developmental effects.
Carcinogenicity This product is not considered to be a carcinogen by IARC, OSHA, ACGIH and NTP.
Germ cell mutagenicity Not expected to be mutagenic.
Chronic effects No specific studies have been conducted for this specific blend.
STOT/single and repeated exposure No studies have been conducted for this specific product blend.

12. ECOLOGICAL INFORMATION

Ecotoxicity
No information available.

Persistence and degradability
This product is not subject to rapid biodegradation.

Bioaccumulation
This product is not expected to bioaccumulate.

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 disposal regulation Dispose in accordance with all applicable regulations.

Cleaning/disposal Triple rinse the empty containers with water before disposal to reconditioned or land fill or garbage.

14. TRANSPORT INFORMATION

DOT
Not Regulated.

IATA
Not Regulated.

IMDG
Not Regulated.

Marine Pollutant - No

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49, Parts 100-177, IMDG, IATA, EU, United Nations, TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

15. REGULATORY INFORMATION

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

US Federal Regulations
This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910, 1200.

SARA 302/304 Extremely Hazardous Substance / Emergency Release Notification
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA) - **Hazard Categories**
Immediate Hazard – No
Delayed Hazard – No
Fire Hazard – No
Pressure Hazard – No
Reactivity Hazard - No

SARA 311/312 hazard categories
Not regulated.

SARA 313 (TRI reporting)
Not listed. SARA 313 Codes: This product may be subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.

Clean Air Act (CAA) Section 112 Reportable Quantity – Sodium Hydroxide 1,000 lb.
Air contaminant (20 CFR 1910.1000, Table Z-1, Z-1-A).

CERCLA
This material, as supplied, is unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311(b) (4); CWA, Sec. 307 (a).

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.

16. OTHER INFORMATION

HMIS	**Health hazards**	1	**Flammability**	0	**Reactivity**	0	**Personal protection** C

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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