UNITED 312



MATERIAL SAFETY DATA SHEET

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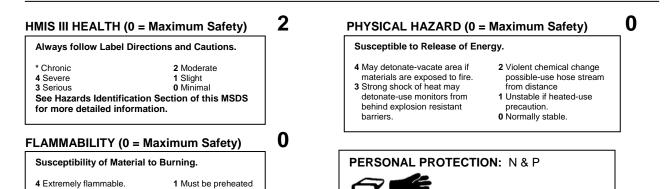
1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

UNITED 312 BOILERMATE

USE/DESCRIPTION Synthetic Polymer Liquid Steam Boiler Treatment

FOR MEDICAL AND TRANSPORTATION EMERGENCIES 24 Hour INFOTRAC (US and CANADA): 800-535-5053 **REVISION DATE** June 3, 2011



2. COMPOSITION/INFORMATION ON INGREDIENTS

to burn.

Hazardous Ingredients	CAS#	%Range	ACGIH (TLV-TWA)	OSHA (PEL-TWA)	LD50 (Species/Route)	LC50 (Species)
Sodium hydroxide	1310-73-2	5 – 10	NE	2 mg/m3	1350 mg/kg (Rabbit/oral)	NE
Sodium carbonate	497-19-8	0.5 – 1.5	10 mg/kg	15 mg/kg	4090 mg/kg (Rat/oral)	2300 mg/m3 2 hr (Rat)
Sodium metabisufite	7681-57-4	5 – 10	5 mg/kg	NE	1,500 mg/kg (Rat/oral)	NE

3. HAZARDS IDENTIFICATION

3 Ignites at normal temperature.

2 Ignites when moderately heated. 0 Will not burn.

Eyes: Can cause severe irritation, burns, and tissue destruction. May cause permanent damage and blindness. Skin: May cause tissue destruction and severe burns. A latent period may exist between exposure and sense of irritation. Inhalation: Can cause damage to the upper respiratory tract and to the lung tissue depending on the extent of the exposure. If Swallowed: Can cause diarrhea, vomiting, burns, tissue ulceration and internal bleeding.

4. FIRST AID MEASURES

Eyes: Flush with plenty of water for at least 15 minutes while holding eyelids open. Call a physician or poison center immediately. Skin: Flush area with water while removing contaminated clothing and shoes. Follow by washing with soap and water. If irritation persists, call a physician or poison center.

Inhalation: Remove to fresh air. Apply CPR if needed and call a physician or poison center immediately.

If Swallowed: DO NOT induce vomiting. Product contains alkalis. If conscious, dilute with several glasses of water. Call a physician or poison center immediately.

5. FIRE FIGHTING MEASURES

Flash Point (TCC): None

Explosive Limits: Lower (LEL): ND Upper (UEL): ND

Flame Projection (Aerosol): N/A

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

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

Extinguishing Media: Water, Dry foam, Carbon dioxide, Dry chemical.

Fire Fighting Instructions: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Small Spills: Spills should be contained and stored in a safe place to await proper treatment or disposal. Wear adequate personal protective equipment and clothing.

Large Spills: 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

Keep in a properly labeled, tightly closed container when not in use. Store in a cool, dry place. Do not let containers freeze as they may split or rupture. Wash hands and face with soap and water after handling this product. Remove contaminated clothing immediately and launder thoroughly before reusing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Chemical safety goggles recommended.

Skin: Chemical resistant gloves recommended.

Respiratory:None required if good ventilation is maintained. If TLV is exceeded, use a NIOSH/MSHA approved respirator.Engineering Controls:Provide adequate ventilation and local exhaust is generally adequate.Other Protective Clothing or Equipment:Shirts with long sleeves and chemical resistant apron recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

 Boiling Point:
 >212°F/>100°C
 Specific Gravity:
 1.16 (H2O=1)
 Vapor Pressure:
 ND
 Melting Point:
 ND

 Vapor Density:
 ND
 Evaporation Rate:
 ~1.00 (Water=1)
 Solubility in Water:
 Complete
 pH: 12 - 13

 Appearance and Odor:
 Pale amber liquid with very slight odor.
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10. STABILITY AND REACTIVITY

 Hazardous Polymerization:
 Will not occur.

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

Chemical Stability: Stable

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

11. TOXICOLOGICAL INFORMATION

Carcinogenicity (NTP/IARC/OSHA): None

California Proposition 65: Does this product contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm? None

12. ECOLOGICAL INFORMATION

ND

13. DISPOSAL CONSIDERATIONS

Consult your local, state, provincial, and federal regulations for proper disposal guidelines. Disposal regulations may be different for each state and/or locality.

14. TRANSPORT INFORMATION

DOT: Available upon request **TDG:** Available upon request **UN:** Availabale upon request

15. REGULATORY INFORMATION

VOC(Volatile Organic Compounds): None TSCA (Toxic Substances Control Act): Listed SARA Title III Section 302 EHS: ND SARA Title III Section 311/312: ND SARA Title III Section 313 Toxic Chemicals: None WHMIS Classification:

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations/ WHMIS) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF REACH OF CHILDREN.

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PREPARED BY: Sandy Kopacz