# **UNITED 413**



PRODUCT NAME

UNITED 413

# MATERIAL SAFETY DATA SHEET

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To Reorder Call: 800-323-2594

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### 1. PRODUCT AND COMPANY IDENTIFICATION

24 Hour INFOTRAC (US and CANADA): 800-535-5053 **REVISION DATE** 

USE/DESCRIPTION Boiler Alkalinity Adjunct November 5, 2010

# HMIS III HEALTH (0 = Maximum Safety)

Always follow Label Directions and Cautions.

\* Chronic 2 Moderate 3 Serious 0 Minimal

See Hazards Identification Section of this MSDS

for more detailed information.

## FLAMMABILITY (0 = Maximum Safety)

4 Extremely flammable 1 Must be preheated

3 Ignites at normal temperature. to burn.

# PHYSICAL HAZARD (0 = Maximum Safety)

Susceptible to Release of Energy.

4 May detonate-vacate area if materials are exposed to fire.

3 Strong shock of heat may

detonate-use monitors from behind explosion resistant

2 Violent chemical change possible-use hose stream from distance

FOR MEDICAL AND TRANSPORTATION EMERGENCIES

1 Unstable if heated-use precaution.

Normally stable.

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### Susceptibility of Material to Burning.

2 Ignites when moderately heated. 0 Will not burn.

# PERSONAL PROTECTION: n & p

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#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

			ACGIR	USHA	LDSU	LC30
Hazardous Ingredients	CAS#	%Range	(TLV-TWA)	(PEL-TWA)	(Species/Route)	(Species)
Potassium hydroxide	1310-58-3	40-70%	C: 2mg/m3	NE	365 mg/kg	NE

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#### 3. HAZARDS IDENTIFICATION

Eyes: Destructive to eye tissues on contact. Will cause severe burns that result in damage to the eyes including blindness.

Skin: Destructive to tissues contacted and produces severe burns. A latent period may exist between exposure and sense of irritation.

Inhalation: Airborne concentrations of mist or spray may cause damage to the upper respiratory tract and to the lung tissue.

Ingestion: POISON. CORROSIVE. Can cause severe burns and complete tissue perforation of mucous membranes of the mouth, throat, esophagus and stomach.

#### 4. FIRST AID MEASURES

Eyes: Immediately flush with large amounts of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Get medical attention immediately.

Skin: Immediately wash contaminated areas with plenty of water for 15 minutes. Remove contaminated clothing and footwear and wash clothing before reuse. Get medical attention immediately.

Inhalation: Remove to fresh air; if breathing is difficult, have a trained person administer oxygen. If respiration stops, give CPR. Get medical attention.

Ingestion: DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Give large quantities of water. If available give several glasses of milk. Get medical attention immediately.

# 5. FIRE FIGHTING MEASURES

Flash Point (TCC): None **Explosive Limits:** Lower (LEL): NA Upper (UEL): NA

Flame Projection (Aerosol): NA

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

Fire and Explosion Hazards: This product reacts violently with strong acids and with some organic compounds.

Extinguishing Media: Water spray, Foam, Carbon dioxide, and Dry chemical.

Fire Fighting Instructions: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. Use water to cool containers but avoid getting water into containers. Direct contact with water can cause a violent exothermic reaction.

#### 6. ACCIDENTAL RELEASE MEASURES

Small Spills: Less than 1 litre may be flushed to the sanitary sewer.

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**Large Spills:** Contain the spill for proper disposal. Neutralize remaining traces with dilute inorganic acid such as hydrochloric or phosphoric acid then flush with water followed by liberal covering of sodium bicarbonate.

#### 7. HANDLING AND STORAGE

Keep containers tightly closed when not in use. Do not store near incompatible materials, product can react violently with water, acids, and other substances. Store in cool, dry, well-ventilated area. Do not get into eyes, on skin, and on clothing.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety goggles are recommended. If a splash factor exists; use safety goggles with a Face Shield.

**Skin:** Chemical resistant gloves recommended.

Respiratory: Avoid breathing fumes from this product. If TLV is exceeded, use a NIOSH/MSHA approved self-contained breathing

apparatus respirator.

Engineering Controls: Provide adequate ventilation and local exhaust is generally adequate.

Other Protection Clothing: Impervious clothing, and chemical resistant safety shoes.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 271°F/133°C Specific Gravity: 1.45 (H2O=1) Vapor Pressure: 6.4@77°F/25°C Melting Point: ND

Vapor Density: ND Evaporation Rate: ~1 Solubility in Water: Complete pH: 13 - 14

Appearance and Odor: Clear liquid with no odor.

#### 10. STABILITY AND REACTIVITY

Hazardous Polymerization: Will not occur.

Hazardous Decomposition: Contact with some reactive metals can generate explosive hydrogen gas.

Chemical Stability: Stable.

Incompatibility: Avoid contact with copper, organic materials, reactive metals such as aluminum and magnesium, and all acids and

oxidizers.

#### 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.

**UNITED 413 BOILER ALKALINITY ADJUNCT** 

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