

UNITED 418



MATERIAL SAFETY DATA SHEET

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800-323-2594

1. PRODUCT AND COMPANY IDENTIFICATION

FOR MEDICAL AND TRANSPORTATION EMERGENCIES
24 Hour INFOTRAC (US and CANADA): 800-535-5053

PRODUCT NAME
UNITED 418 LIQUID OXYGEN SCAVENGER

USE/DESCRIPTION
Controls Oxygen Pitting in Low and High Pressure Steam Boilers

REVISION DATE
March 12, 2008

HEALTH (0 = Maximum Safety)

2

Always follow Label Directions and Cautions.

4 Extreme 3 High 2 Moderate 1 Slight 0 Minimal

See Hazards Identification Section of this MSDS for more detailed information.

REACTIVITY (0 = Maximum Safety)

0

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 barriers.
2 Violent chemical change possible-use hose stream from distance
1 Unstable if heated-use precaution.
0 Normally stable.

FLAMMABILITY (0 = Maximum Safety)

0

Susceptibility of Material to Burning.

4 Extremely flammable. 1 Must be preheated
3 Ignites at normal temperature. to burn.
2 Ignites when moderately heated. 0 Will not burn.

PERSONAL PROTECTION: 0



2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS#	%Range	ACGIH (TLV-TWA)	OSHA (PEL-TWA)	LD50 (Species/Route)	LC50 (Species)
Sodium metabisulfite	7681-57-4	5-10	5 mg/m3	NE	NE	NE
Sodium Sulfite	7757-83-7	7-13	NE	NE	NE	NE

3. HAZARDS IDENTIFICATION

Eyes: Can cause irritation and burns.

Skin: May cause irritation.

Inhalation: May cause irritation.

Ingestion: Harmful. Can cause diarrhea, nausea, headache, dizziness, confusion and CNS depression.

Note: This product contains SULFITE. Some people are critically sensitive to sulfites.

4. FIRST AID MEASURES

Eyes: Flush with plenty of water for at least 15 minutes while holding eyelids open. Call a physician or poison control center immediately.

Skin: Wash with soap and water. If irritation persists, call a physician or poison control center.

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

If Swallowed: Call a physician or poison control center 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 carbon dioxide, carbon monoxide and sulfur dioxide.

Fire and Explosion Hazards: In the presence of fire, this product may produce sulfur dioxide. May react with active metals (aluminum, zinc and magnesium) liberating hydrogen gas.

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

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

6. ACCIDENTAL RELEASE MEASURES

Small Spills: Soak up with an inert absorbent and place in designated disposal container.

Large Spills: Spills should be contained and soaked up with an inert absorbent and place in designated disposal container to await proper treatment or disposal. Wear adequate personal protective equipment and clothing.

7. HANDLING AND STORAGE

Keep containers tightly closed when not in use. Store away from heat, open flames and incompatible materials. Store in cool, dry, well-ventilated area. Keep from freezing. Keep out of reach of children. Wash hands and face with soap and water following use of this product. Remove contaminated clothing immediately and launder thoroughly before reuse.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Chemical 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: Long shirt sleeves are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 212°F/100°C **Specific Gravity:** 1.185 (H₂O=1) **Vapor Pressure:** ND **Melting Point:** ND

Vapor Density: ND **Evaporation Rate:** ~ 1 **Solubility in Water:** Miscible **pH:** 6 - 8

Appearance and Odor: Clear pale amber to water white liquid with no odor.

10. STABILITY AND REACTIVITY

Hazardous Polymerization: Will not occur.

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

Chemical Stability: Stable.

Incompatibility: Will react vigorously with strong acids and oxidizers. In the presence of fire, this product may 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: Available 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.