



MATERIAL SAFETY DATA SHEET

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To Reorder Call:
 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 417 DESCALER

USE/DESCRIPTION
 Descaler for Steam Boilers

REVISION DATE
 November 05, 2011

HMIS III HEALTH (0 = Maximum Safety) 2

Always follow Label Directions and Cautions.

* Chronic	2 Moderate
4 Severe	1 Slight
3 Serious	0 Minimal

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

PHYSICAL HAZARD (0 = Maximum Safety) 0

Susceptible to Release of Energy.

4 May detonate-vacate area if materials are exposed to fire.	2 Violent chemical change possible-use hose stream from distance
3 Strong shock of heat may detonate-use monitors from behind explosion resistant barriers.	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 to burn.
3 Ignites at normal temperature.	0 Will not burn.
2 Ignites when moderately heated.	

PERSONAL PROTECTION: p & n



2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS#	%Range	ACGIH (TLV-TWA)	OSHA (PEL-TWA)	LD50 (Species/Route)	LC50 (Species)
Phosphoric acid	7664-38-2	40-70	1 mg/m3	1 mg/m3	1530 mg/kg (Rat/oral)	NE

3. HAZARDS IDENTIFICATION

Eyes: Severe irritant. Brief contact of the liquid or mist will severely damage the eyes and prolonged contact may cause permanent eye injury which may be followed by blindness.

Skin: Severe irritant. May cause painful burns.

Inhalation: Mists of this product are irritating to the respiratory tract and may cause breathing difficulty and pulmonary edema.

Ingestion: Corrosive. Causes destructive burns to mouth, throat, and stomach and may be harmful or fatal.

4. FIRST AID MEASURES

Eyes: Immediately flush with plenty of water for at least 15 minutes while holding eyelids open to ensure thorough rinsing of the entire surface of the eye and lids with water. Call a physician or poison center immediately.

Skin: Wash with soap and plenty of water. Remove contaminated clothing and wash before reuse. If symptoms develop, call a physician or poison center.

Inhalation: Remove to fresh air. If symptoms develop, call a physician or poison center. If not breathing, give artificial respiration.

Ingestion: DO NOT induce vomiting. Call a physician or poison center immediately. If conscious, give several glasses of water to dilute. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point (TCC): None

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

Flame Projection (Aerosol): NA

Hazardous Products of Combustion: When strongly heated, as in a fire, this product may decompose to phosphoric oxide fumes and acid mist.

Fire and Explosion Hazards: In the presence of extreme heat, as in a fire, this product may react with active metals (e.g. aluminum, zinc, etc.) to release flammable hydrogen gas.

Extinguishing Media: Water; Dry chemical; Carbon dioxide; Alcohol foam

Fire Fighting Instructions: Wear self-contained breathing apparatus w/full protective clothing. Containers should be cooled with water to prevent vapor pressure build up.

6. ACCIDENTAL RELEASE MEASURES

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

Large Spills: Soak up with an inert absorbent and place in designated disposal container. Rinse area thoroughly; neutralize with base, such as soda ash or lime.

7. HANDLING AND STORAGE

Keep containers tightly closed when not in use. Store in a cool, dry, well-ventilated area. Protect from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety goggles are recommended.

Skin: Chemical resistant gloves are recommended.

Respiratory: If TLV/TWA is exceeded, use NIOSH-approved respirator for acid mists.

Engineering Controls: Mechanical ventilation recommended when handling in enclosed/tight spaces.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 212F/100C **Specific Gravity:** 1.36 (H₂O=1) **Vapor Pressure:** 5.65 mmHg **Melting Point:** -5F/-17.5C
Vapor Density: ND **Evaporation Rate:** ND **Solubility in Water:** Soluble **pH:** 1-2
Appearance and Odor: Pink color liquid with slight scent

10. STABILITY AND REACTIVITY

Hazardous Polymerization: NA

Hazardous Decomposition: When strongly heated, as in a fire, this product may decompose to phosphoric oxide fumes and acid mist.

Chemical Stability: Stable

Incompatibility: Oxidizing agents such as bleach; bases

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 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: Phosphoric acid C#7664-38-2

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 417 DESCALER

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