## **UNITED 18**



# MATERIAL SAFETY DATA SHEET

320 37th Avenue • St. Charles, Illinois 60174 • To Reorder, Call 800-323-2594

PRODUCT IDENTIFICATION ACIDEX DESCALER

USE / DESCRIPTION

REVISION DATE February 26, 2004

FOR MEDICAL AND TRANSPORTATION EMERGENCIES: INFOTRAC: 800-535-5053

### **HEALTH** (0 = Maximum Safety)

Always follow Label Directions and Cautions.

2 Moderate. 1 Slight. High.

o Minimal.

See Health Hazard Data Section of this M.S.D.S. for more detailed information.

### FLAMMABILITY (0 = Maximum Safety) Susceptibility of Material to Burning.

Extremely flammable.

1 Must be preheated to burn.

Ignites at normal temperature. Ignites when moderately heated.

Will not burn. 0

REACTIVITY (0 = Maximum Safety) Susceptible to Release of Energy.

May detonate-vacate area if

Materials are exposed to fire. Strong shock of heat may detonate-use monitors from behind explosion resistant harriers.

Violent chemical change possible-use hose stream from distance

Unstable if heated-use precaution.

Normally stable.

**PERSONAL PROTECTION** 





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## HAZARDOUS COMPONENTS IDENTITY, EXPOSURE LIMITS AND S.A.R.A. TITLE III INFORMATION

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HAZARDOUS	CAS	ACGIH	ACGIH STEL	OSHA PEL	OTHER RECOMMENDED LIMITS	S.A.R.A. TITLE III QUANTITIES
COMPONENTS	NUMBER	TWA		STEL C: 5 ppm	NIOSH STEL	0.78*
Hydrochloric acid	7647-01-0 9016-45-9	Not established Not established	C: 5 ppm C: 7.5 mg/m <sup>3</sup>	C: 7.5 mg/m <sup>3</sup>	C: 5 ppm C: 7 mg/m <sup>3</sup>	
			Not established	Not	Not established	None
Nonylphenol ethoxylate				established		
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<sup>\*</sup> Pounds of reportable material per gallon of UNITED product.

#### PHYSICAL / CHEMICAL CHARACTERISTICS SPECIFIC GRAVITY (H:0 = 1) BOILING POINT 1.055

Approximately 183°F. MELTING POINT VAPOR PRESSURE (mm Hg.) Not determined Not determined (At 77° F.) EVAPORATION RATE (Water = 1) Greater than 1.0 VAPOR DENSITY (Air = 1) VOLATILE ORGANIC COMPOUNDS (V.O.C.) Greater than 1.0 (Pounds Per Gallon Of Product) None SOLUBILITY IN WATER Complete

pH: APPEARANCE AND ODOR 1.0 Clear pink liquid with hydrogen chloride odor

## FIRE AND EXPLOSION HAZARD DATA

UEL LEL FLAMMABLE LIMITS FLASH POINT (Method Used) None None (Tag Closed Cup)

EXTINGUISHING MEDIA

Water spray, dry chemical, CO2, alcohol foam

Firefighters should wear full protective equipment and NIOSH-approved self-contained breathing apparatus. Use water spray to cool fire exposed containers.

Heating may cause release of hazardous fumes. May generate flammable, potentially explosive hydrogen gas on contact with some metals.

Explosive levels of hydrogen may accumulate inside metal equipment. Follow appropriate NFPA codes.

#### REACTIVITY DATA STABILITY: STABLE X CONDITIONS TO AVOID UNSTABLE None known INCOMPATIBILITY (Materials To Avoid) Do not mix this product with other cleaning chemicals, especially strong bases, metal oxides, or oxidizers (like bleach). HAZARDOUS DECOMPOSITION OR BYPRODUCTS Heat can cause evolution of gaseous hydrogen chloride, CO, CO<sub>2</sub> and miscellaneous organic compounds. HAZARDOUS POLYMERIZATION: WILL NOT OCCUR X CONDITIONS TO AVOID MAY OCCUR None known **HEALTH HAZARD DATA** HEALTH HAZARDS EYES: Causes severe burns and destruction of tissues. Small quantities can result in permanent damage and loss of vision. SKIN: May cause severe burns. INHALATION: Vapors or mist may cause irritation to the throat, mucous membranes and upper respiratory tract. May cause damage to the lung tissue depending upon the extent of exposure. IF SWALLOWED: Can cause very serious damage to the mouth, esophagus, stomach and other contacted tissues and may be fatal. CARCINOGENICITY: IARC MONOGRAPHS? OSHA REGULATED? This product contains a chemical known to the state of California to cause cancer or reproductive toxicity? SIGNS AND SYMPTOMS OF OVEREXPOSURE EYES: Pain, tearing, redness and swelling SKIN: Redness and swelling INHALATION: Irritation to the throat, mucous membranes and upper respiratory tract IF SWALLOWED: Severe irritation and injury characterized by pain in the mouth, throat and stomach, difficulty in swallowing, nausea and vomiting followed by diarrhea and respiratory distress. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY OVEREXPOSURE Individuals with pre-existing disease of the lungs may have increased susceptibility to the toxicity of excessive exposures. TARGET ORGANS Eyes, skin, respiratory system **EMERGENCY AND FIRST AID PROCEDURES** EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids open during flushing. Call a physician or poison center immediately. SKIN: Immediately flush with plenty of water for at least 15 minutes. Call a physician or poison center immediately. INHALATION: Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician or poison center. IF SWALLOWED: DO NOT induce vomiting. If conscious, drink several glasses of water. Call a physician or poison center immediately. PRECAUTIONS FOR SAFE HANDLING AND USE STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Wear appropriate personal protective equipment. Contain spill and place into container for proper disposal. Flush remaining area with water and neutralize with soda ash or lime. Maintain adequate ventilation. WASTE DISPOSAL METHOD Consult local, state, and federal authorities for proper disposal guidelines. PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Keep containers tightly closed and store in a cool, dry place. Do not let containers freeze, as they may split or rupture. Do not get in eyes, on skin or clothing. Avoid breathing vapors or mists. **CONTROL MEASURES** FOR USE WHERE SIGNIFICANT EYE, SKIN OR INHALATION EXPOSURE IS LIKELY RESPIRATORY PROTECTION (Specify Type) If TLV is exceeded, use a NIOSH/MSHA-approved self-contained breathing apparatus. **VENTILATION:** MECHANICAL (General) LOCAL EXHAUST Provide adequate ventilation Generally adequate PROTECTIVE GLOVES EYE PROTECTION Rubber gloves Safety goggles OTHER PROTECTIVE CLOTHING OR EQUIPMENT Long sleeves and chemical resistant apron recommended Remove contaminated clothing immediately and wash with soap and water before reusing. Wash hands and face with soap and water after using this product.