



## MATERIAL SAFETY DATA SHEET

320 37th Avenue, St. Charles, Illinois 60174  
[www.unitedlabsinc.com](http://www.unitedlabsinc.com) . [www.unitedlabsinc.ca](http://www.unitedlabsinc.ca)

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 18 ACIDEX DESCALER

**USE/DESCRIPTION**  
 Descaler

**REVISION DATE**  
 April 12, 2013

### 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: B**



### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS#	%Range	ACGIH (TLV)	OSHA (TLV)	LD50 (Species/Route)	LC50 (Species)
Hydrochloric acid	7647-01-0	5-10	5 ppm Ceiling	5 ppm Ceiling	900 mg/kg (Rabbit/oral)	1108 ppm 1 hr Mouse

### 3. HAZARDS IDENTIFICATION

**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.

**Ingestion:** Can cause very serious damage to the mouth, esophagus, stomach and other contacted tissues. May be fatal.

### 4. FIRST AID MEASURES

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. Get prompt medical attention.

**Skin:** Wash with soap and plenty of water. If symptoms develop, seek medical attention.

**Inhalation:** Remove to fresh air. If symptoms develop, seek medical attention. If not breathing, give artificial respiration.

**Ingestion:** DO NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person. Give several glasses of water to dilute.

### 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 produce hydrogen chloride, oxides of carbon and other miscellaneous organic compounds.

**Fire and Explosion Hazards:** In the presence of extreme heat, as in a fire, this product may react with active metals and release hydrogen gas.

**Extinguishing Media:** Water spray; 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:** Spills up to 1 gallon may be diluted with plenty of water and flushed to sewage drain. Rinse area thoroughly.

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

## 7. HANDLING AND STORAGE

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eyes:** Safety glasses are recommended.

**Skin:** Chemical resistant gloves are recommended.

**Respiratory:** To avoid breathing fumes, use NIOSH-approved respirator.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** 183 F/83 C    **Specific Gravity:** 1.055 (H<sub>2</sub>O=1)    **Vapor Pressure:** ND    **Melting Point:** ND

**Vapor Density:** >1 (Air=1)    **Evaporation Rate:** >1 (H<sub>2</sub>O=1)    **Solubility in Water:** Complete    **pH:** 1

**Appearance and Odor:** Clear pink liquid with hydrogen chloride scent

## 10. STABILITY AND REACTIVITY

**Hazardous Polymerization:** None

**Hazardous Decomposition:** When strongly heated, as in a fire, this product may produce hydrogen chloride, oxides of carbon and other miscellaneous organic compounds.

**Chemical Stability:** Stable

**Incompatibility:** Oxidizing agents such as bleach; strong 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? No

## 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:** None

**SARA Title III Section 311/312:** ND

**SARA Title III Section 313 Toxic Chemicals:** Hydrochloric acid C# 7647-01-0

**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.