

# LIQUID DESCALER®



- Utilice químico desincrustante **Liquid Descaler** para:

Eliminar la biopelícula o biofilm formada de limo-bacterias, tales como la producida por bacterias de hierro-oxidantes y sulfato.

- Actúa como un excelente agente quelante en sulfatos de hierro y cloruros de hierro.
- Disuelve el carbonato, sulfato, magnesio y los depósitos de hierro (depósitos minerales).
- Mantiene los sólidos disueltos en suspensión más eficaz que otros ácidos.

## Cómo utilizar:

1. Inyectar en el pozo por medio de manguera y piston de 5 a 10 galones por cada 100 galones de agua dentro de del pozo. (Vea la tabla para el cálculo)
2. El químico desincrustante debe permanecer en el pozo durante 24-36 horas y debe ser agitado de manera intermitente. Se puede agitar con los pistones plásticos elásticos marca Cotey Chemical. También se puede agitar introduciendo hielo seco.
3. Se debe de sacar el químico del pozo con la bomba sumergible antes de meter el agua a la red, tanque o cisterna.

## Para obtener los mejores resultados:

- Cepillar el pozo con cepillo de cerdas de acero, para remover tectas e incrustantes que se pueden quitar mecánicamente. Con esto, utilizaremos el químico para los incrustantes que estén en el ranurado y en el área del filtro de grava.
- Utilizar el cepillo plástico para cepillado y pistoneo.
- La combinación de químicos y la energía mecánica es importante para penetrar y remover el material de taponamiento.
- Controlar el pH durante el tratamiento ácido. Comprobar que el pH con frecuencia. Con los niveles de pH superiores a 3,0 el ácido está perdiendo fuerza y la productividad. Comprobar el pH después de cada agitación. Si el pH se eleva por encima de 3,0 añadir más ácido. Este proceso permite un tratamiento químico más preciso.

## ¿Cómo deshacerse de desincrustante líquido:

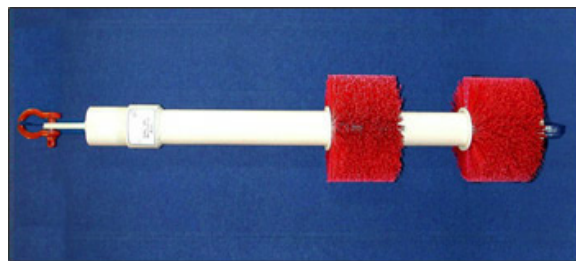
Cotey recomienda que los residuos sean bombeados a las aguas residuales, fosas para la evaporación natural y la biodegradación, o de pozos locales para la evaporación y la consiguiente infiltración de llenado siempre no va a contaminar un acuífero local. Este producto cuenta con certificación NSF60, por lo que no va a contaminar el manto acuífero.


**PRECAUCIÓN:**

- NO MEZCLAR LIQUID DESCALER CON OTRAS SUSTANCIAS QUÍMICAS!
- Cuando se utiliza este producto, use gafas o lentes de seguridad.
- LÍQUIDO DESCALER es una mezcla de ácidos líquidos, polímeros, tensioactivos e inhibidores. Por lo tanto, la piel o los ojos deben lavarse con agua si se produce el contacto y la atención médica debe ser inmediata, sobre todo para los ojos.
- Evite la inhalación de vapores o nieblas.
- Si es ingerido, beba grandes cantidades de líquido, como té, café, agua o leche y huevos crudos si están disponibles. Acuda a atención médica de inmediato.
- El producto Liquid Descaler es seguro en todos los metales comunes en equipos de bombeo, por el contacto prolongado con aluminio o equipos de galvanizado. Utilice SECO ACID ® ESPECIAL y BIOCLEAN para el aluminio o el equipo de descalcificación galvanizado.

LÍQUIDO DESCALER se envasa en recipientes, 5 galones y 55 galones.

Diameter of Casing or Hole in Inches	Gallons of Water per Foot of Depth
3.0	0.37
3.5	0.50
4.0	0.65
4.5	0.83
5.0	1.02
5.5	1.23
6.0	1.47
7.0	2.00
8.0	2.61
9.0	3.31
10.0	4.08
11.0	4.94
12.0	5.88
13.0	6.90
14.0	8.00
15.0	9.18
16.0	10.00
17.0	11.79
18.0	13.22
19.0	14.73
20.0	16.32
22.0	19.75
24.0	23.50
26.0	27.58
28.0	31.99
30.0	36.72
32.0	41.78



MATERIAL SAFETY DATA SHEET								
OSHA - Meets 29 CFR 1910.1200 Standards				HMIS HAZARD RATINGS				
 <b>COTEY CHEMICAL CORP.</b>		HEALTH	2	0 = INSIGNIFICANT	3 = HIGH			
		FLAMMABILITY	0	1 = SLIGHT	4 = EXTREME			
		PHYSICAL HAZARD	0	2 = MODERATE				
<b>TRANSPORTATION INFORMATION</b>								
PROPER SHIPPING NAME: Corrosive liquid, n.o.s. (hydrochloric acid)								
HAZARD CLASS / PKG GRP: 8 / II REF: 49 CFR 173.154, .202, .242								
IDENTIFICATION NUMBER: UN 1760 LABEL: CORROSIVE								
<b>SECTION 1 - PRODUCT / COMPANY IDENTIFICATION</b>								
IDENTITY (AS USED ON LABEL AND LIST) <b>LIQUID ACID DESCALER</b>						Page 1 of 2		
MANUFACTURER'S NAME Cotey Chemical Corporation				EMERGENCY TELEPHONE NUMBER Infotrac (800) 535-5053 Outside USA (352) 323-3500				
ADDRESS (NUMBER, STREET, P.O. BOX) 4410 M.L.K. Blvd.				TELEPHONE NUMBER FOR INFORMATION (800) 457-2096				
(CITY, STATE AND ZIP CODE) Lubbock, TX 79404-				DATE PREPARED: August 10, 2004 SUPERSEDES: March 21, 2001				
<b>SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION</b>								
HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY: COMMON NAME(S))	CAS #	% (OPTIONAL)	OSHA PEL		ACGIH TWA		SARA TITLE III	RQ LBS
Hydroxyacetic acid	79-14-1		not established					
Hydrochloric acid (a,b,c)	7647-01-0		5C	7C	5C			5000
(a) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture = 20,000 lbs) or greater amounts, according to 40 CFR 302.								
(b) A "C" in the OSHA PEL or ACGIH TWA column indicates ceiling limits, the concentration that should not be exceeded during any part of the working exposure.								
(c) OSHA proposed a regulation (29 CFR 1910.119) to monitor and control safety at certain types of industrial facilities. Compliance is triggered by specified quantities of specific chemicals. Minimum threshold quantity for this Highly Hazardous Chemical is 5,000 lbs.								
<b>SECTION 3 - HEALTH HAZARD DATA</b>								
ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE				EMERGENCY AND FIRST AID PROCEDURES				
INHALATION: Corrosive and irritating to upper respiratory tract.				Remove affected person to fresh air, if breathing has not returned to normal within a few minutes after exposure, get medical attention.				
SKIN: Corrosive and irritating; chemical burns may result from contact.				Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.				
EYES: CORROSIVE; Contact with eyes is painful and irritating and will cause chemical burns.				Remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.				
INGESTION: Corrosive and irritating to digestive tract; vomiting may occur.				Drink two glasses of water followed by milk, milk of magnesia or other non-alcoholic liquids; DO NOT induce vomiting; seek medical attention immediately.				
HEALTH HAZARDS (ACUTE AND CHRONIC): Corrosive to skin and eyes; prolonged inhalation of this product may cause ulcers to the upper respiratory tract; no long term health effects are known at this time, however, repeated contact with eyes may cause severe irritation.								
CARCINOGENICITY		NTP?	No	IARC MONOGRAPHS?		No	OSHA REGULATED? No	
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin, eye, or respiratory disorders may become aggravated through prolonged exposure.								

MATERIAL SAFETY DATA SHEET	
IDENTITY (AS USED ON LABEL AND LIST) LIQUID ACID DESCALER	Page 2 of 2 Date: August 10, 2004
<b>SECTION 4 - FIRE FIGHTING MEASURES</b>	
FLASH POINT (METHOD USED) Non-flammable	NFPA RATING None
FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable	
EXTINGUISHING MEDIA Carbon dioxide, water, water fog, dry chemical, chemical foam	
SPECIAL FIRE FIGHTING PROCEDURES Keep containers cool with water spray to prevent container rupture due to steam buildup; CAUTION - material is corrosive.	
UNUSUAL FIRE AND EXPLOSION HAZARDS None	
<b>SECTION 5 - ACCIDENTAL RELEASE MEASURES</b>	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CAUTION - CORROSIVE. Wash small spills to sanitary sewer. Confine large spill, soak up with approved absorbent, shovel product into approved container; for spills in excess of allowable limits (RQ) notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 for detailed instructions concerning reporting requirements.	
<b>SECTION 6 - HANDLING AND STORAGE</b>	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. CAUTION - material is corrosive. Keep this and other chemicals out of reach of children.	
<b>SECTION 7 - EXPOSURE CONTROLS / PERSONAL PROTECTION</b>	
RESPIRATORY PROTECTION (SPECIFY TYPE): None required while threshold limits (Section 2) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.	
VENTILATION LOCAL EXHAUST: Required MECHANICAL (GENERAL): Yes	SPECIAL: To maintain minimum TWA and STEL levels. OTHER: Engineering and work controls as required.
PROTECTIVE GLOVES: Neoprene or rubber gloves with cuffs.	EYE PROTECTION: Goggles with side shields; safety eyebath nearby.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls, apron, or other equipment should be worn to minimize skin contact.	
WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.	
<b>SECTION 8 - PHYSICAL / CHEMICAL PROPERTIES</b>	
BOILING POINT 212° F	SPECIFIC GRAVITY (WATER = 1) 1.190
VAPOR PRESSURE (MM Hg) 17 mm Hg @ 20 ° C	pH < 1.0
VAPOR DENSITY (AIR = 1) > 1	EVAPORATION RATE (WATER = 1) < 1
SOLUBILITY IN WATER Complete	% VOLATILE (BY WEIGHT) 100%
APPEARANCE AND ODOR Pale yellow liquid, burnt sugar odor	
<b>SECTION 9 - STABILITY AND REACTIVITY</b>	
STABILITY UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: Extreme temperatures
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids, strong alkalis	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, chlorine, hydrocarbons, fumes, and smoke may be produced.	
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: XXX	CONDITIONS TO AVOID: None
<b>SECTION 10 - DISPOSAL CONSIDERATIONS</b>	
WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for corrosive materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.	
The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.	