

## This MSD Nataria or Safety Data Sheet

HCS CLASS: Corrosive liquid.



WHMIS (Pictograms)

WHMIS Class D-2A: Material causing other toxic effects (VERY TOXIC).

WHMIS (Classification)

WHMIS Class E: Corrosive liquid.

HCS

Product Name/ Trade name	AC114	Code	114
Synonym	Multi-Purpose Acid Cleaner/Delimer	CAS#	Not applicable.
Chemical Family	Not available.	Validation Da	ate 6/07/2006
<b>Claemtech Fer/Bul</b> plier	Not applicable.	Print Date	6/07/2006
TSCA	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 【名學 <b>拉科拉氏</b> All components listed or are exempt from listing.	In Case of Emergency	Chemtrec (800) 424-9300
	All components listed unless noted elsewhere on this MSDS		
DSL/ NDSL			Protective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	$\mathrm{LC}_{50}/\mathrm{LD}_{50}$
1) Hydrochloric Acid	7647-01-0	10-15	STEL: 5	Not available.

## Section 3. Hazards Identification

Potential Acute Health Effects Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking,

or shortness of breath.

**Potential Chronic Health** 

**Effects** 

Severe over-exposure can produce lung damage, choking, unconsciousness or death.

Carcinogenic Effects Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First	t Aid Measures
Eye Contact	Hold eye open and rinse slowly and thoroughly with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor immediately for treatment advice.
Skin Contact	Rinse skin with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for further treatment advice.
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration., preferably mouth to mouth if possible.
Ingestion	Call a poison control center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person

Section 5. Fire Fighting Measures		
<b>Products of Combustion</b>	Not available.	
Fire Fighting Media and Instructions	N/A	
Special Remarks on Fire Hazards	N/A	
Special Remarks on Explosion Hazards	N/A	

Section 6. Accidental	Release Measures
Small Spill and Leak	Chemical anti-splash goggles.
Large Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 7. Handling and Storage				
Precautions	Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe gas, fumes, vapor or spray. Never add water to this product. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible.			
Incompatibility	Strong alkalis, most metals, bleach.			
Storage	Corrosive materials should be stored in a separate safety storage cabinet or room. Keep out of reach of children.			

Section 8. Exposure (	Controls/Personal Protection
<b>Engineering Controls</b>	Good general ventilation should be sufficient to control airborne levels.
Personal Protection  Eyes	Splash goggles.
Body	Lab coat.
Respiratory	Wear appropriate respirator when ventilation is inadequate.
Hands	Gloves (impervious).
Protective Clothing (Pictograms)	
<b>Exposure Limits</b>	Not available.

Section 9. Physical and Chemical Properties					
Physical State and Appearance	Liquid.	Odor		Characteristic.	
Molecular Weight	Not applicable.	Taste		Not available.	
рН	<1 [Acidic.]	Color	•	Blue.	
<b>Boiling/Condensation Point</b>	212°F initial				
Melting/Freezing Point	Not available.				
Critical Temperature	Not available.				
Instability Temperature	Not available.				

Specific Gravity	1.07 (Water = 1)
Vapor Pressure	26mm Hg @ 68°F
Vapor Density	>1 (Air = 1)
Volatility	95
VOC	Not available.
<b>Evaporation Rate</b>	<1 compared to Water
<b>Dispersion Properties</b>	See solubility in water.
Solubility	not available
The Product is:	May be combustible at high temperature.
<b>Auto-ignition Temperature</b>	Not available.
Flash Points	CLOSED CUP: >98.889°C (210°F).
Flammable Limits	Not available.
Fire Hazards in Presence of Various Substances	No specific information is available in our database regarding the flammability of this product in presence of various materials.
Explosion Hazards in Presence of Various Substances	Not applicable

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Incompatibility with Various Substances	Strong alkalis, most metals, bleach.	
Hazardous Decomposition Products	Will not occur.	

ical Information		
Absorbed through skin. Eye contact. Inhalation. Ingestion.		
LD50: Not available. LC50: Not available.		
Severe eye irritant. Liquid and mist can cause tearing, possible swelling of the conjunctiva, and corneal injury.		
in Skin irritant. Prolonged or repeated exposure can cause dermatitis.		
May be irritating to mucous membranes of the nose, throat, and lungs.		
May be irritating or corrosive to the mouth, throat, and upper gastrointestinal tract. Large doses can cause vomiting.		
Severe over-exposure can produce lung damage, choking, unconsciousness or death.		
No additional remark.		
No additional remark.		

Section 12. Ecological Information				
Ecotoxicity	Not available.			
BOD5 and COD	Not available.			
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.			
Toxicity of the Products of Biodegradation	Not available.			
Special Remarks on the Products of Biodegradation	No additional remark.			

Section 13. Disposal Considerations			
Waste Information	Any method in accordance with applicable laws.		
Waste Stream	Not available.		

## DOT (U.S.A) (Pictograms)



TDG Classification Class 8: Corrosive material



PIN UN, Proper Shipping Shipping name:

Name, PG

Shipping name: Corrosive liquids n.o.s. UNNA: UN1760  $\,$  PG: II

Maritime Transportation

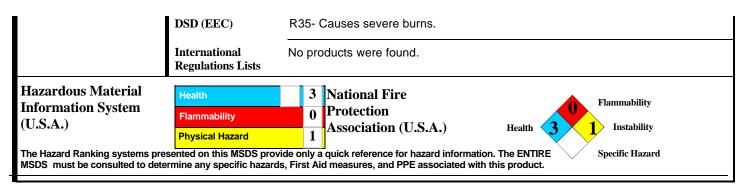
ortation Not available.

**Special Provisions for** 

Transport

Not available.

WHMIS (Classification)	WHMIS Class D-2A: Material causing other toxic effects (VERY TOXIC). WHMIS Class E: Corrosive liquid.				
Regulatory Lists	No products were found.				
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).				
Other Classifications	HCS (U.S.A.)	HCS CLASS: Corrosive liquid.			
	USA Regulatory Lists	California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Ethylene Oxide <1 ppm California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethylene Oxide <1 ppm			
		Massachusetts RTK: Ethylene Oxide			
		SARA 311/312 MSDS distribution - chem Hydrochloric Acid	nical inventory - hazard identification:		



## Validated by CRushton on 3/20/2004. Verified by CRushton. Printed 3/27/2004. Information Contact Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 Notice to Reader To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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