

Material Safety Data Sheet This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200



WHMIS Class D-2A: Material causing other toxic effects (VER MHCS CLASS: Corrosive liquid. TOXIC). WHMIS Class E: Corrosive liquid.

WHMIS (Classification)

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Section 1. Che	Section 1. Chemical Product and Company Identification		
Product Name/ Trade name	AC114	Code	114
Synonym	Multi-Purpose Acid Cleaner/Delimer	Version Nu	ımber
Chemical Family	Not available.	Validation	Date 3/3/2010
Chemical Formula	Not applicable.	Print Date	3/3/2010
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Oh 43607 (419) 241-2156	In Case of Emergency	Chemtrec (800) 424-9300
TSCA	TSCA Inventory: All components listed or are exempt from listing.		
DSL/ NDSL	All components listed unless noted elsewhere on this MSDS		Protective Clothing

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

Section 3. Hazard	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 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 Fig	Section 5. Fire Fighting Measures	
Products of Combustion	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. Har	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		
Engineering Controls	Good general ventilation should be sufficient to control airborne levels.	
Personal Protection Eye	es Splash goggles.	
Вос	ty Lab coat.	
Respirator	Wear appropriate respirator when ventilation is inadequate.	
Hand	ds Gloves (impervious).	
Protective Clothing (Pictograms)		
Exposure Limits	Not available.	

Section 9. Physical and Chemical Properties			
Physical State and Appearance	Liquid.	Odor	Characteristic.
Molecular Weight	Not applicable.	Taste	Not available.
pН	<1 [Acidic.]	Color	Blue.
Boiling/Condensation Point	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.
Evaporation Rate	<1 compared to Water
Dispersion Properties	See solubility in water.
Solubility	not available
The Product is:	May be combustible at high temperature.
Auto-ignition Temperature	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 Will not occur. Products	

Section 11. Toxicological Information				
Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.			
Toxicity to Animals	LD50: Not available. LC50: Not available.			
Acute Effects on Humans				
Eyes	Severe eye irritant. Liquid and mist can cause tearing, possible swelling of the conjunctiva, and corneal injury.			
Skin	Skin irritant. Prolonged or repeated exposure can cause dermatitis.			
Inhalation	May be irritating to mucous membranes of the nose, throat, and lungs.			
Ingestion	May be irritating or corrosive to the mouth, throat, and upper gastrointestinal tract. Large doses can cause vomiting.			
Chronic Effects on Humans	Severe over-exposure can produce lung damage, choking, unconsciousness or death.			
Special Remarks on Toxicity to Animals	No additional remark.			

Special Remarks on Chronic Effects on Humans

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	of 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.

Section 14. Transport Information

DOT (U.S.A) (Pictograms)



TDG Classification Class 8: Corrosive material



PIN UN, Proper Shipping Shipping name: Corrosive liquids n.o.s. UNNA: UN1760 PG: II

Name, PG

Maritime Transportation Not available.

Special Provisions for

Not available.

Transport

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.)	CS (U.S.A.) HCS CLASS: Corrosive liquid.			

USA Regulatory California prop. 65: This product contains the following ingredients for Lists which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Ethylene Oxide 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 - chemical inventory - hazard identification: Hydrochloric Acid DSD (EEC) R35- Causes severe burns. **International** No products were found. **Regulations Lists Hazardous Material** Health 3 National Fire Flammability **Information System 0** Protection **Flammability** (U.S.A.) Instability Health' Association 1 **Physical Hazard** (U.S.A.)The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE Specific Hazard MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

Section 16. Other Information

Validated by CRushton on 3/3/2010.

Verified by CRushton.

Printed 3/3/2010.

Information Contact Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607

Notice to Reade

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.

Validated on 3/3/2010. AC114 Page: 5/5