

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



Not a WHMIS controlled material. Controlled under the Pest Control Products Act (PCP)

HCS Class: Corrosive liquid.

WHMIS (Pictograms)

WHMIS (Classification)

HCS

Williams (Fietogram	(Classification)			пев
Section 1. Che	emical Product and Company Identification			
Product Name/ Trade name	AF79 Concentrate	Code		331
Synonym	Cleaner/Disinfectant/Mildewstat/Fungicide/Virucide/Deod.	CAS#		Not applicable.
Chemical Family	Not available.	Validation D	ate	3/27/2006
Chemical Formula	Not applicable.	Print Date		3/27/2006
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Oh 43607 (419) 241-2156	In Case of Emergency	Che	mtrec (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		Prot	ective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Tetrasodium salt of ethylendiaminetetraacetic acid	64-02-8	<8	Not available.	ORAL (LD50): Acute: 3030 mg/kg [Rat].
Quaternary Ammonium Chloride	68424-85-1	<5	Not available.	Not available.
Nonionic Surfactant	9016-45-9	<5	Not available.	Not available.
Sodium Metasilicate	6834-92-0	<5	Not available.	Not available.
Nonionic Surfactant	61788-90-7	<5	Not available.	ORAL (LD50): Acute: 4610 mg/kg [Rat].
Perfume Oil	N/A	<1	Not available.	Not available.

Section 3. Hazards	s Identification
Potential Acute Health Effects	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. Corrosive to eyes.
Potential Chronic Health Effects	Repeated skin exposure can produce local skin destruction, or dermatitis. Prolonged exposure may result in skin burns and ulcerations.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. Fir	st 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. Call a poison control center or doctor for further treatment advice.
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. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5. Fire Fighting Measures		
Products of Combustion	Not available.	
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.	
Special Remarks on Fire Hazards	Not available.	
Special Remarks on Explosion Hazards	Not available.	

Section 6. Accidental Release Measures		
Small Spill and Leak	Absorb with an inert material.	
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	After handling, always wash hands thoroughly with soap and water. Avoid contact with skin and eyes. DO NOT ingest.	
Incompatibility	Not available.	
Storage	Keep out of the reach of children. Not for use or storage in or around the home.	

Section 8. Exposu	re Controls/Personal Protection
Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
Personal Protection Eyes	s Splash goggles.
Body	No additional special protective clothing is required.
Respiratory	Wear appropriate respirator when ventilation is inadequate.
Hands	Gloves (impervious).
Protective Clothing (Pictograms)	
Exposure Limits	Not available.

Section 9. Physica	al and Chemical Properties		
Physical State and Appearance	Liquid.	Odor	Pleasant. (Slight.)
Molecular Weight	Not applicable.	Taste	Not available.
pН	13 [Basic.]	Color	Green.
Boiling/Condensation Point	The lowest known value is 40°C (104°F) (N	Nonionic S	Surfactant).
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	1.02 (Water = 1)		
Vapor Pressure	20mm Hg @ 68°F		
Vapor Density	>1 (Air = 1)		
Volatility	89.7		
VOC	5.1406 (g/l).		
Evaporation Rate	<1 compared to Water		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water.		
The Product is:	Non-flammable.		
Auto-ignition Temperature	Not available.		
Flash Points	Not available.		
Flammable Limits	Not available.		
Fire Hazards in Presence of Various Substances	No specific information is available in our in presence of various materials.	database	regarding the flammability of this product
Explosion Hazards in Presence of Various Substances	No specific information is available in our in the presence of various materials.	database	regarding the product's risks of explosion

Section 10. Stability and Reactivity Data	
Stability	The product is stable.
Incompatibility with Various Substances	Not available.
Hazardous Decomposition Products	Not available.

Section 11. Toxico	logical Information
Routes of Entry	Eye Contact Ingestion. INHALATION Skin contact.
Toxicity to Animals	Acute oral toxicity (LD50): 3030 mg/kg [Rat]. (Tetrasodium EDTA).
Acute Effects on Humans	
Eyes	Severely irritating to the eyes. Eye contact can result in corneal damage or blindness.
Skin	Skin contact may produce burns.
Inhalation	Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.
Ingestion	May cause burns to mouth, throat and stomach. Harmful if swallowed. May cause headache, dizziness, nausea, vomiting and diarrhea.
Chronic Effects on Humans	Repeated skin exposure can produce local skin destruction, or dermatitis. Prolonged exposure may result in skin burns and ulcerations.
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	Not available.	
Special Remarks on the Products of Biodegradation	No additional remark.	

Section 13. Disposal Considerations		
Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	
Waste Stream	Not available.	

Section 14. Transport Information

DOT (U.S.A) (Pictograms)



TDG Classification 8



PIN UN, Proper Shipping Shipping name: Corrosive liquids n.o.s. UNNA: 1760 PG: III Name, PG

Maritime Transportation Not available.

Special Provisions for

Transport

Not available.

Not a WHMIS controll	ed material Controlled under the Post Control	_	
Products Act (PCP)	ed material. Controlled under the Pest Control	T	
No products were found.			
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 - chemical inventory - hazard identification: Nonionic Surfactant: immediate health hazard R35- Causes severe burns.		
DSD (EEC)			
International Regulations Lists			
Health Flammability	3 National Fire 0 Protection	0 Flammability	
	Products Act (PCP) No products were OSHA: Hazardou HCS (U.S.A.) USA Regulatory Lists DSD (EEC) International Regulations Lists	No products were found. OSHA: Hazardous by definition of Hazard Communication HCS (U.S.A.) USA Regulatory Lists California prop. 65: This product comwhich the State of California has found (female) which would require a warning valifornia prop. 65: This product comwhich the State of California has found require a warning under the statute: In Massachusetts RTK: Ethylene Oxide SARA 311/312 MSDS distribution - Condition of the State of California has found require a warning under the statute: In Massachusetts RTK: Ethylene Oxide SARA 311/312 MSDS distribution - Condition of the State of California has found require a warning under the statute: In Massachusetts RTK: Ethylene Oxide SARA 311/312 MSDS distribution - Condition of the State of California has found require a warning under the statute: In Massachusetts RTK: Ethylene Oxide SARA 311/312 MSDS distribution - Condition of the State of California has found require a warning under the statute: In Massachusetts RTK: Ethylene Oxide SARA 311/312 MSDS distribution - Condition of the State of California has found require a warning under the statute: In Massachusetts RTK: Ethylene Oxide SARA 311/312 MSDS distribution - Condition of the State of California has found require a warning under the statute: In Massachusetts RTK: Ethylene Oxide SARA 311/312 MSDS distribution - Condition of the State of California has found require a warning under the statute: In Massachusetts RTK: Ethylene Oxide SARA 311/312 MSDS distribution - Condition of the State of California has found require a warning under the statute: In Massachusetts RTK: Ethylene Oxide SARA 311/312 MSDS distribution - Condition of the State of California has found require a warning under the statute: In Massachusetts RTK: Ethylene Oxide SARA 311/312 MSDS distribution - Condition of the State of California has found require a warning under the statute: In Massachusetts RTK: Ethylene Oxide SARA 311/312 MSDS distribution - Condition of the State of California has found require a warning under the statute: In Mas	

Section 16. Other Information				
Validated by CRushton on 3/27/2006.	Verified by CRushton. Printed 3/27/2006.			
Information Contact Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607				

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 3/27/2006.	AF79 Concentrate	Page: 6/6
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