

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



WHMIS Class E: Corrosive liquid. WHMIS CLASS D-2: Material causing other toxic effects.

HCS Class: Irritating substance.

WHMIS (Classification)

HCS

WHIMIS (Pictograms)		WHIVIIS (Classification)			HCS
Section 1. Chemical Product and Company Identification					
Product Name/ Trade name	AF7	9	Code		79
Synonym	Disinfe	ectant/Cleaner/Degreaser/Deodorant/Mildewstat/Virucide	CAS#		Not applicable.
Chemical Family	N/A		Validation D	ate	3/20/2004
Chemical Formula	Not ap	plicable.	Print Date		3/27/2004
Manufacturer/ Supplier	1001 E Toledo	Corporation Brown Avenue , Ohio 43607 241-2156	In Case of Emergency	Che	mtrec (800) 424-9300
TSCA	TSCA I	nventory: All components listed or are exempt from listing.			
DSL/ NDSL	All com	ponents listed unless noted elsewhere on this MSDS		Pro	otective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	$\mathrm{LC}_{50}/\mathrm{LD}_{50}$
1) Alkyl (C14 60%, C16 30%, C12 5%, C18 5%) dimethyl benzyl ammonium chloride	68391-01-5	0.105	Not available.	Not available.
2) Alkyl (C12 68%, C14 32%) dimethyl ethylbenzyl ammonium chloride	68956-79-6	0.105	Not available.	Not available.

Section 3. Hazards Identification	
Potential Acute Health Effec	cts Harmful if swallowed. This product is an eye irritant. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Potential Chronic Health Effects	Over-exposure by inhalation may cause respiratory irritation.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.	
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Ingestion	Have conscious person drink several glasses of water. NEVER give an unconscious person anything to ingest. Seek immediate medical attention.	

Section 5. Fire Fighting Measures		
Products of Combustion	Not applicable.	
Fire Fighting Media and Instructions	Non-flammable substance.	
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 away from incompatibles.	
Incompatibility	acids oxidizing agents	
Storage	Keep out of the reach of children. Not for use or storage in or around the home.	

Section 8. Exposure (Controls/Personal Protection
Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
Personal Protection	
Eyes	Safety glasses.
Body	Work uniform or laboratory coat.
Respiratory	Wear appropriate respirator when ventilation is inadequate.
Hands	Gloves (impervious).
Protective Clothing (Pictograms)	
-	2-Butoxyethanol TWA: 25 (ppm) TWA: 50 (ppm) from OSHA (PEL)
	Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties			
Physical State and Appearance	Liquid. (Liquid.)	Odor	Pleasant. (Slight.)
Molecular Weight	Not applicable.	Taste	Burning. (Strong.)
рН	11.5 to 12.5 [Basic.]	Color	Clear Blue. (Light.)
Boiling/Condensation Point	213°F initial		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		

Instability Temperature	Not available.
Specific Gravity	1.01 (Water = 1)
Vapor Pressure	20mm Hg @ 68°F
Vapor Density	>1 (Air = 1)
Volatility	90
voc	Not available.
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 applicable.
Flash Points	CLOSED CUP: >98.889°C (210°F).
Flammable Limits	Not applicable.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Not applicable

Section 10. Stability and Reactivity Data	
Stability	The product is stable.
Incompatibility with Various Substances	acids oxidizing agents
Hazardous Decomposition Products	Will not occur.

Section 11. Toxicological Information		
Routes of Entry	Not available.	
Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 1746 mg/kg [Rat]. (2-Butoxyethanol). Acute toxicity of the gas (LC50): 926 ppm 4 hour(s) [Mouse]. (2-Butoxyethanol).	
Acute Effects on Humans		
Eyes	Very hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.	
Skin	Very hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.	
Inhalation	Hazardous in case of inhalation.	
Ingestion	Hazardous in case of ingestion.	
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation.	
Special Remarks on Toxicity to Animals	No additional remark.	
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Special Remarks on Chronic No additional remark. Effects on Humans

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. Dispo	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** Not a TDG controlled material. PIN UN, Proper Shipping Name, PG Not applicable. Maritime Transportation Not available. **Special Provisions for** Not available. Transport

WHMIS (Classification)	WHMIS Class E: Corrosive liquid. WHMIS CLASS D-2: Material causing other toxic effects.		
egulatory Lists			
ther Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).		
Other Classifications	HCS (U.S.A.)	HCS Class: Irritating substance.	
	USA Regulatory Lists	No products were found.	
		SARA 311/312: 2-Butoxyethanol	

	DSD (EEC)	This product is not classified according to the EU regulations.		
	International Regulations Lists	No products were found.		
Hazardous Material Information System (U.S.A.)	Health	2 National Fire Flammability		
	Flammability	0 Protection		
	Physical Hazard	Association (U.S.A.) Health 1 0 Instability		
		vide only a quick reference for hazard information. The ENTIRE Specific Hazard ds, First Aid measures, and PPE associated with this product.		

Section 16. Other Information 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.

Continued on Next Page