

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

(M)	This product is subject to labeling and training under Hea Canada Disinfectant Drug Product Regulations for Toilet Cleaners, therefore a WHMIS classification is not assigned this product. As required for all hazardous materials, employees must be trained in their safe use, and a Materi Safety Data Sheet present within the facility.	Bowl ed to	ass: Irritating substance.
WHMIS (Pictogram	ms) WHMIS (Classification)		HCS
Section 1. Che	emical Product and Company Identification		
Product Name/ Trade name	AF79	Code	79
Synonym	Disinfectant/Cleaner/Degreaser/Deodorant/Mildewstat/Viru	CAS #	Not applicable.
Chemical Family	N/A	Validation I	Date 3/28/2007
Chemical Formula	Not applicable.	Print Date	3/28/2007
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156	<u>In Case of</u> <u>Emergency</u>	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	LC50/LD50
Alkyl (C14 60%, C16 30%, C12 5%, C18 5%) dimethyl benzyl ammonium chloride	68391-01-5	0.105	Not available.	Not available.
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 Effects	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. Fir	st 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.

Section 5. Fire Fig	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. Accide	ental 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. Exposu	re 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)	
Exposure Limits	<b>2-Butoxyethanol</b> 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		

<b>Melting/Freezing Point</b>	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.
<b>Evaporation Rate</b>	<1 compared to Water
<b>Dispersion Properties</b>	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 Will not occur. Products	

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

Section 15. Other Regulatory Information and Pictograms					
WHMIS (Classification)	This product is subject to labeling and training under Health Canada Disinfectant Drug Product Regulations for Toilet Bowl Cleaners, therefore a WHMIS classification is not assigned to this product. As required for all hazardous materials, employees must be trained in their safe use, and a Material Safety Data Sheet present within the facility.				
<b>Regulatory Lists</b>					
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).				

Other Classifications	HCS (U.S.A.)	SARA 311/312: 2-Butoxyethanol SARA 313: 2- Butoxyethanol This product is not classified according to the EU regulations. No products were found.		
	USA Regulatory Lists			
	DSD (EEC)			
	International Regulations Lists			
Hazardous Material Information System (U.S.A.)	Health Flammability Physical Hazard	2National Fire0Protection0Association(U.S.A.)	Flammability 1 0 Instability	
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Section 16. Other	Information			
Validated by CRushton		Verified by CRushton.		
vandated by citabilion	011 01 201 200 11	Printed 3/28/2007.		
Information Contact Be	tco Corporation			
10	01 Brown Avenue oledo, Ohio 43607			
liability whatsoever for the accur Final determination of suitabili	acy or completeness of the ty of any material is the s	erein is accurate. However, neither the above named sup information contained herein. ole responsibility of the user. All materials may present cannot guarantee that these are the only hazards that exi	unknown hazards and should be used with	
Validated on 3/28/2007.		AF79	Page: 5/5	
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