

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

Ţ		WHMIS Class D-2B: Material causing other toxic effects (TOXIC).	H	CS Class: I	rritating substance.
WHMIS (Pictogram	ms)	WHMIS (Classification)			HCS
Section 1. Che	emica	I Product and Company Identification			
Product Name/ Trade name	For	est 5	Code		307
Synonym	Clean	er/Degreaser/Deodorant	CAS #	#	Not applicable.
Chemical Family	Not av	/ailable.	Valid	ation Date	3/2/2007
Chemical Formula	Not a	oplicable.	Print	Date	3/24/2007
Manufacturer/ Supplier	1001 Toled	Corporation Brown Avenue o, Ohio 43607 241-2156	<u>In Case</u> <u>Emerge</u>		mtrec (800) 424-9300
TSCA	TSCA	nventory: All components listed or are exempt from listing.			
DSL/ NDSL	All cor	nponents listed unless noted elsewhere on this MSDS		Prot	tective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
Tetrasodium salt of ethylendiaminetetraacetic acid	64-02-8	0-5	Not available.	ORAL (LD50): Acute: 3030 mg/kg [Rat].
2-Butoxyethanol	111-76-2	1-5	TWA: 20 (ppm) from ACGIH (TLV) [United States] TWA: 50 (ppm) from OSHA (PEL) [United States]	ORAL (ĽD50): Acute: 1746 mg/kg [Rat].
Alkyl (C12 68%, C14 32%) dimethyl ethylbenzyl ammonium chloride	68956-79-6	0.105	Not available.	Not available.
Alkyl (C14 60%, C16 30%, C12 5%, C18 5%) dimethyl benzyl ammonium chloride	68391-01-5	0.105	Not available.	Not available.

## Section 3. Hazards Identification

Potential Acute Health Effects	This product may irritate eyes upon contact. Irritating to the mucous membranes of the nose, thorat and lungs.
Potential Chronic Health Effects	Repeated skin exposure can produce local skin destruction, or dermatitis.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. Fir	st Aid Measures
Eye Contact	Call a poison control center or doctor immediately for treatment advice. 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.
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

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	Absorb with an inert material and place in an appropriate waste disposal container.
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.	
Incompatibility	None known.	
Storage	Keep out of reach of children. For Institutional and Commercial Use	

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	v Long Pants and Long Sleeves to avoid skin cotact.
Respiratory	Wear appropriate respirator when ventilation is inadequate.
Hands	Gloves (impervious).
Protective Clothing (Pictograms)	

**Exposure Limits** 

**2-Butoxyethanol** TWA: 25 (ppm) TWA: 50 (ppm) from OSHA (PEL)

Consult local authorities for acceptable exposure limits.

Section 9. Physica	al and Chemical Properties		
Physical State and Appearance	Liquid.	Odor	Pleasant.
Molecular Weight	Not applicable.	Taste	Not available.
рН	11.5 to 12.5 [Basic.]	Color	Straw color.
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.		
<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:	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 in presence of various materials.	database	e regarding the flammability of this product
Explosion Hazards in Presence of Various Substances	Not applicable		

Section 10. Stability and Reactivity Data	
Stability	The product is stable.
Incompatibility with Various Substances	None known.
Hazardous Decomposition Will not occur. Products	

Section 11. Toxic	ological Information
<b>Routes of Entry</b>	Eye Contact Ingestion. INHALATION Skin contact.
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	s
Eye	<i>es</i> Severe eye irritant. Liquid and mist may cause corneal injury.
Ski	in Skin irritant. Prolonged or repeated exposure may cause moderate reddening or swelling.
Inhalatio	<i>n</i> Vapors may be irritating to mucous membranes of the nose, throat, and lungs.
Ingestio	<i>m</i> May be irritating to the mouth, throat, esophagus, and gastrointestinal system. Vomiting and diarrhea expected with large doses.
Chronic Effects on Humans	Repeated skin exposure can produce local skin destruction, or dermatitis.
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	No additional remark.

Section 12. Ecolo	gical 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	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 controlled under TDG (Canada).	
PIN UN, Proper Shipp Name, PG	ng Not applicable.	

I

Special Provisions for Not applicable. Transport

WHMIS (Classification)	WHMIS Class D-2B: N	laterial causing other toxic effects (TOXIC).	Ţ		
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: Irritating substance.			
	USA Regulatory Lists				
		SARA 311/312 MSDS distribution - chemical inventory - hazard identification: 2-Butoxyethanol: immediate health hazard, delayed health hazard SARA 313 toxic chemical notification and release reporting: 2-Butoxyethanol			
	DSD (EEC) International Regulations Lists	No products were found.			
Hazardous Material Information System (U.S.A.)	Health Flammability Physical Hazard	2 National Fire 0 Protection 0 Association He (U.S.A.)	ealth 2 0 Flammability		

## Section 16. Other Information

Validated by CRushton on 3/2/2007.

Verified by CRushton. Printed 3/24/2007.

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.

Validated on 3/2/2007.

Forest 5

Page: 5/6