

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

Ţ		WHMIS CLASS D-2: Material causing other toxic effects.	F	HCS Cla	ass: I	rritating substance.
WHMIS (Pictogra	ms)	WHMIS (Classification)				HCS
Section 1. Che	emica	I Product and Company Identification				
Product Name/ Trade name	Clea	ar Image Concentrate	Code	е		199
Synonym	Non-A	Ammoniated Glass Cleaner	CAS	#		Not applicable.
Chemical Family	Not av	vailable.	Valid	dation I	Date	7/3/2006
Chemical Formula	Not a	oplicable.	Print	t Date		7/5/2006
Manufacturer/ Supplier	1001 Toled	Corporation Brown Avenue o, Ohio 43607 241-2156	<u>In Cas</u> Emerg		Che	mtrec (800) 424-9300
TSCA	TSCA	Inventory: 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 ₅₀ /LD ₅₀
2-Butoxyethanol	111-76-2	35-40	TWA: 20 (ppm) from ACGIH (TLV) [United States] TWA: 50 (ppm) from OSHA (PEL) [United States]	ORAL (LD50): Acute: 1746 mg/kg [Rat].
Sodium Lauryl Sulfate	151-21-3	0-5	Not available.	Not available.
Sodium Xylene Sulfonate	1300-72-7	0-5	Not available.	ORAL (LD50): Acute: 650 mg/kg [Rat]. 5939 mg/kg [Mouse].
Perfume Oil	N/A	0-5	Not available.	Not available.

Section 3. Hazards Identification		
Potential Acute Health Effects	Harmful if swallowed. Harmful if absorbed through the skin.	
Potential Chronic Health Effects	Over-exposure by inhalation may cause respiratory irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated or prolonged exposure to the substance can produce blood disorders. Repeated or prolonged exposure to the substance can produce kidney damage. Repeated or prolonged exposure to the substance can produce liver damage. Repeated or prolonged exposure to the substance can produce nervous system damage. However, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum.	
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.	

Section 4. First Aid Measures		
Eye Contact	Flush with large quantities of water. Seek medical attention if irritation persists.	
Skin Contact	Flush with large quantities of water. Seek medical attention if irritation persists.	
Inhalation	Get to fresh air. Seek medical attention if irritation persists.	
Ingestion	INDUCE VOMITING by sticking finger in throat. Seek immediate medical attention.	

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 MeasuresSmall Spill and LeakSafety glasses recommended. Absorb with an inert material and place in an appropriate
waste disposal container.Large Spill and LeakAvoid to runoff to sewers and waterways. Wear Protective Clothing. Absorb with inert
Material. Contact you local Emergency planning commission for further instructions.Personal Protection in
Case of a Large SpillSplash 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 Ke	eep out of reach of children. Keep locked up. For Institutional and Commercial Use	
Incompatibility N	lone known.	
Storage K	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 for most conditions. Local exhaust ventilation may be necessary for some operations.

Personal Protection

Eyes Splash goggles.

Body No special protective clothing is required.

Respiratory Wear appropriate respirator when ventilation is inadequate.

Hands Gloves.

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	Characteristic.
Molecular Weight	Not applicable.	Taste	Not available.
рН	10 to 11	Color	Blue.
Boiling/Condensation Point	209°F initial		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	0.96 (Water = 1)		
Vapor Pressure	25mm Hg @ 68°F		
Vapor Density	>1 (Air = 1)		
Volatility	100		
VOC	359.48 (g/l).		
Evaporation Rate	>1 compared to Water		
Dispersion Properties	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	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	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	Section 11. Toxicological Information			
Routes of Entry	Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.			
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	5			
Eye	es Eye irritant. Liquid and mists may damage the eyes causing corneal injury.			
Ski	n Skin irritant. May cause moderate redness and swelling.			
Inhalatio	\overline{n} Vapors may be irritating to mucous membranes of the nose, throat, and lungs.			
Ingestio	\overline{n} May cause headache, dizziness, nausea, vomiting, and diarrhea.			
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated or prolonged exposure to the substance can produce blood disorders. Repeated or prolonged exposure to the substance can produce kidney damage. Repeated or prolonged exposure to the substance can produce liver damage. Repeated or prolonged exposure to the substance can produce nervous system damage. However, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum.			
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 allapplicable local, state, and federal regulations.	
Waste Stream	Not available.	

Section 14. Transport Information			
DOT (U.S.A) (Pictograms)			
TDG Classification	Not controlled under TDG (Canada).		

PIN UN, Proper Shipping Not applicable. Name, PG

Maritime Transportation Not available.

Special Provisions for Not applicable. Transport

Section 15. Other Regulatory Information and Pictograms			
WHMIS (Classification)	WHMIS CLASS D-2: N	Material causing other toxic effects.	Ţ
Regulatory Lists			
Other Regulations			
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)	R22- Harmful if swallowed. R36/38- Irritating to eyes and skin.	
	International Regulations Lists	No products were found.	
Hazardous Material Information System (U.S.A.)	Health Flammability Physical Hazard	0 Protection 0 Association (U.S.A.)	mmability Instability
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 7/3/2006.

Verified by CRushton. Printed 7/5/2006.

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.

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