

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



WHMIS CLASS D-2: Material causing other toxic effects.

HCS CLASS: Irritating substance.

WHMIS (Classification)

HCS

Section 1. Chemical Product and Company Identification			
Product Name/ Trade name	Deep Blue	Code	108
Synonym	Glass and Surface Cleaner	Version Nu	mber
Chemical Family	Not available.	Validation 1	Date 3/2/2010
Chemical Formula	N/A	Print Date	3/3/2010
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Oh 43607 (419) 241-2156	In Case of Emergency	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	LC ₅₀ /LD ₅₀
2-Butoxyethanol	111-76-2	0-1		ORAL (LD50): Acute: 1746 mg/kg [Rat].
Ammonium Hydroxide	1336-21-6	<1	-	Not available.

Section 3. Hazards Identification		
Potential Acute Health Effects	This product is an eye irritant.	
Potential Chronic Health Effects	Over-exposure by inhalation may cause respiratory irritation.	
Carcinogenic Effects	Classified A3 (Proven for animal.) by ACGIH [2-Butoxyethanol].	

Section 4. First Aid Measures		
Eye Contact	Flush with large quantities of water . Seek medica 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	Drink two glasses of water and induce vomiting. Seek medical attention immediately.	

Section 5. Fire Fighting Measures	
Products of Combustion	Not available.
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	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.	

Section 7. Har	ndling and Storage
Precautions	Keep locked up. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.
Incompatibility	oxidizing agents
Storage	Keep locked up and out of the reach of children. Keep container tightly closed. 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		
Eye	s Splash goggles.	
Body	y No special protective clothing is required.	
Respirator	A respirator is not needed under normal and intended conditions of product use.	
Hands	Gloves (impervious).	
Protective Clothing (Pictograms)		
Exposure Limits	2-Butoxyethanol TWA: 25 (ppm) TWA: 50 (ppm) from OSHA (PEL) Ammonium Hydroxide TWA: 50 (ppm) TWA: 50 (ppm) from OSHA (PEL) STEL: 35 (ppm)	

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties			
Physical State and Appearance	Liquid.	Odor	Characteristic. (Strong.)
Molecular Weight	Not applicable.	Taste	Disagreeable. (Strong.)
рН	10.5 to 11.5 [Basic.]	Color	Blue. (Dark.)
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	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 available.		
Flash Points	Not applicable.		
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	oxidizing agents
Hazardous Decomposition Will not occur Products	

Section 11. Toxicological Information			
Routes of Entry	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	Acute Effects on Humans		
Eyes	Eye irritant. Liquid and mist may damage the eyes causing corneal injury.		
Skin	Skin irritant. May cause moderate redness and swelling.		
Inhalation	Vapors may be irritating to mucous membranes of the nose, throat, and lungs.		
Ingestion	May cause headache, dizziness, nusea, vomiting, and diarrhea. Harmful if swallowed.		
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 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 applicable laws.		
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 Transport

Not applicable.

WHMIS (Classification)	WHMIS CLASS D-2: N	: Material causing other toxic effects.			
Regulatory Lists	No products were found.				
Other Regulations	Not available. or of its ingredients				
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	1 National Fire 0 Protection 0 Association (U.S.A.)	Health 1 0 Instability		

Section 16. Other Information				
Validated by CRushton on 3/2/2010.	Verified by CRushton.			
	Printed 3/3/2010.			
Information Contact Betco Corporation				
1001 Brown Avenue				
Toledo, Ohio 43607				
Notice to Reade				
To the best of our knowledge, the information contained herein is a liability whatsoever for the accuracy or completeness of the informat	accurate. However, neither the above named supplier nor any of its subsidiaries assumes any			
Final determination of suitability of any material is the sole respo	onsibility of the user. All materials may present unknown hazards and should be used with			
caution. Although certain hazards are described herein, we cannot s	ouarantee that these are the only hazards that exist			

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