

DSL/ NDSL

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.	HCS CLASS: Irri	tating substance.
WHMIS (Pictograms	s) WHMIS (Classification	on)		HCS
Section 1. Chemical Product and Company Identification				
Product Name/ Trade name	Deep Blue	Cod	de 1	08
Synonym	Glass and Surface Cleaner	CA	S# No	ot applicable.

Synonym	Class and Surface Cleaner		
Chemical Family	Not available.	Validation I	Date 8/17/2005
Chemical Formula	N/A	Print Date	8/17/2005
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.		
DCI / NDCI	All		Protective Clothing

All components listed unless noted elsewhere on this MSDS

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Ammonium Hydroxide	1336-21-6	<1	TWA: 50 ppm OSHA (United States). TWA: 50 ppm STEL: 35 ppm	Not available.
2-Butoxyethanol	111-76-2	<1	ACGIH (United States). TWA: 20 ppm OSHA (United States). TWA: 50 ppm	ORAL (LD50): Acute: 1746 mg/kg [Rat].

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	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 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. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 7. Handling 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	es Safety glasses.	
Вос	hy No special protective clothing is required.	
Respirator	A respirator is not needed under normal and intended conditions of product use.	
Hana	ds 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.)
pН	10 to 11 [Basic.]	Color	Blue. (Dark.)
Boiling/Condensation Point	100°C (212°F)		
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 Products	Will not occur

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			
Eye	s Eye irritant. Liquid and mist may damage the eyes causing corneal injury.		
Skii	Skin irritant. May cause moderate redness and swelling.		
Inhalation	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	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.

WIIMIC (Classified 4:2-2)	WHMIS CLASS D-2: Material causing other toxic effects.				
WHMIS (Classification)	WHIVIIS CLASS D-2. I	waterial causing other toxic effects.	\bigcirc		
Regulatory Lists	No products were found.				
Other Regulations	Not available. or of its ingredients				
Other Classifications	HCS (U.S.A.)	J.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 8/17/2005. Verified by CRushton. Printed 8/17/2005. 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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