

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





WHMIS Class E: Corrosive liquid. WHMIS CLASS D-2: MateriaHCS Class: Irritating substance. HCS causing other toxic effects.

Class: Corrosive liquid.

WHMIS (Pictograms)

WHMIS (Classification)

HCS

Section 1. Che	emical Product and Company Identification		
Product Name/ Trade name	Deep Blue Concentrate	Code	181
Synonym	Concentrated Glass Cleaner	CAS#	Not applicable.
Chemical Family	Not available.	Validation I	Date 6/17/2009
Chemical Formula	Not applicable.	Print Date	6/17/2009
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
Water	7732-18-5	50 - 100	Not available.	Not available.
2-Butoxyethanol	111-76-2	10 - 15	ACGIH (United States).	ORAL (LD50): Acute:
			TWA: 20 ppm	1746 mg/kg [Rat].
			OSHA (United States).	
			TWA: 50 ppm	
Aqua Ammonia	1336-21-6	1 - 5	TWA: 50 ppm	Not available.
			OSHA (United States).	
			TWA: 50 ppm	
			STEL: 35 ppm	
Sodium Lauryl Sulfate	151-21-3	1 - 5	Not available.	Not available.

Section 3. Hazard	s Identification
Potential Acute Health Effects	Extremely hazardous in case of eye contact (irritant). Very hazardous in case of skin contact (irritant), of inhalation Non-sensitizer for skin. Non-permeator by skin. Non-sensitizer for lungs. 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. 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.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. Fir	st Aid Measures
Eye Contact	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.
Skin Contact	Wash contaminated skin with soap and water. Seek medical attention.
Inhalation	May cause headache, nausea or weakness in case of long term exposure. Remove to fresh air. Seek medical attention.
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 applicable.	
Fire Fighting Media and Instructions	Not applicable.	
Special Remarks on Fire Hazards	No additional remark.	
Special Remarks on Explosion Hazards	No additional remark.	

Section 6. Accide	ental Release Measures
Small Spill and Leak	Dilute with water and mop up, or absorb with an inert DRY 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. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 7. Har	ndling and Storage
Precautions	Keep locked up. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.
Incompatibility	No specific information is available in our database regarding the reactivity of this material in presence of various other materials.
Storage	Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. For Institutional and Commercial Use

Section 8. Exposu	Section 8. Exposure Controls/Personal Protection		
Engineering Controls	Good general ventilation should be sufficient to control airborne levels.		
Personal Protection Eyes	s Splash goggles.		
Body	No special protective clothing is required.		
Respiratory	No special protective clothing is required.		
Hands	s Gloves.		
Protective Clothing (Pictograms)			

2-Butoxyethanol TWA: 25 (ppm) **Exposure Limits**

TWA: 50 (ppm) from OSHA (PEL)

Aqua Ammonia

TWA: 50 (ppm) TWA: 50 (ppm) from OSHA (PEL)

STEL: 35 (ppm)

Consult local authorities for acceptable exposure limits.

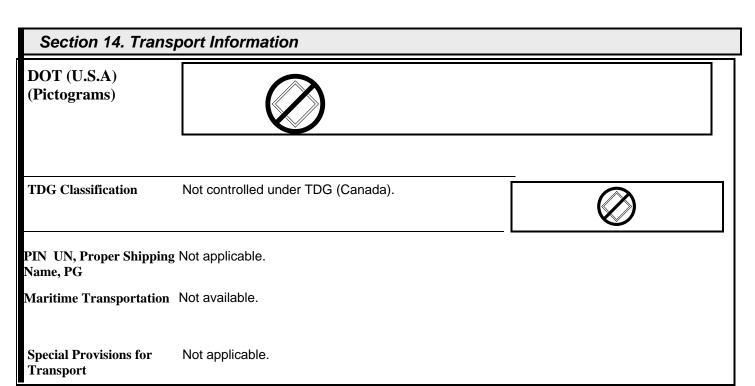
Section 9. Physica	al and Chemical Properties		
Physical State and Appearance	Liquid. (Clear sparkling liquid.)	Odor	Ammoniacal. (Strong.)
Molecular Weight	Not applicable.	Taste	Not available.
pН	11.5 to 12.5 [Basic.]	Color	Blue.
Boiling/Condensation Point	Not available.		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	0.851 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	(Air=1): > 1		
Volatility	Not available.		
voc	Not available.		
Evaporation Rate	Not available.		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water.		
The Product is:	Non-flammable.		
Auto-ignition Temperature	Not applicable.		
Flash Points	Not applicable.		
Flammable Limits	Not applicable.		
Fire Hazards in Presence of Various Substances	Not applicable.		
Explosion Hazards in Presence of Various Substances	No specific information is available in or in the presence of various materials.	ur database	regarding the product's risks of explosion

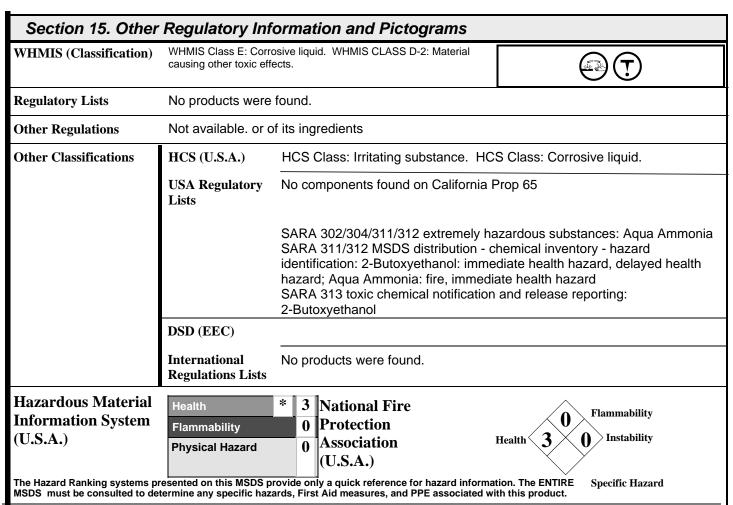
Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Incompatibility with Various Substances	No specific information is available in our database regarding the reactivity of this material in presence of various other materials.	
Hazardous Decomposition Not available. Products		

Section 11. Toxicological Information		
Routes of Entry	Absorbed through skin. 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 Human	s	
Ey	es May cause severe eye irritation.	
Sk	in This product may irritate eyes and skin upon contact.	
Inhalatio	n HARMFUL IF INHALED.	
Ingestic	n May be fatal if swallowed.	
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation. 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.	
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 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 16. Other Information			
Validated by CRushton on 6/17/2009.	Verified by CRushton. Printed 6/17/2009.		
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Information Contact Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607

Notice to Reade

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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