

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 Concentrate 1:20	Code	281
Synonym	Concentrated Glass Cleaner	Version Nu	mber
Chemical Family	Not available.	Validation	Date 3/2/2010
Chemical Formula	Not applicable.	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	25-30	TWA: 20 (ppm) from ACGIH (TLV) [United States] TWA: 50 (ppm) from OSHA (PEL) [United States]	ORAL (LD50): Acute: 1746 mg/kg [Rat].
Aqua Ammonia Sodium Lauryl Sulfate	1336-21-6 151-21-3	1-5 1-5	TWA: 50 (ppm) TWA: 50 (ppm) from OSHA (PEL) [United States] STEL: 35 (ppm) Not available.	Not available. Not available.

Section 3. Hazards Identification		
Potential Acute Health Effects	This product is a severe eye irritant. May be fatal if swallowed. May cause skin irritation.	
Potential Chronic Health Effects	Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. 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 mucous membranes 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	Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate 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. 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. 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 container tightly closed. Keep out of reach of children. 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	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)

Aqua Ammonia

TWA: 50 (ppm)
TWA: 50 (ppm) from OSHA (PEL)
STEL: 35 (ppm)

Consult local authorities for acceptable exposure limits.

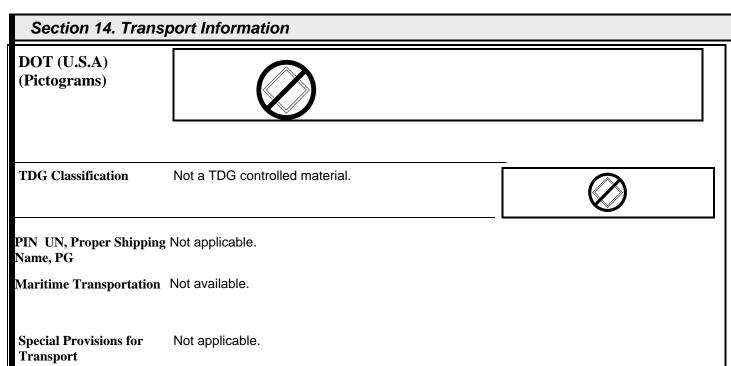
Section 9. Physica	al and Chemical Properties		
Physical State and Appearance	Liquid. (Clear sparkling liquid.)	Odor	Ammoniacal. (Strong.)
Molecular Weight	Not applicable.	Taste	Not available.
pН	11.5 to 12.5 [Basic.]	Color	Blue.
Boiling/Condensation Point	Not available.		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	.955		
Vapor Pressure	Not available.		
Vapor Density	(Air=1):>1		
Volatility	Not available.		
voc	Not available.		
Evaporation Rate	(Water=1):>1		
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	Non-explosive in presence of open flame	es and spar	ks, of heat.

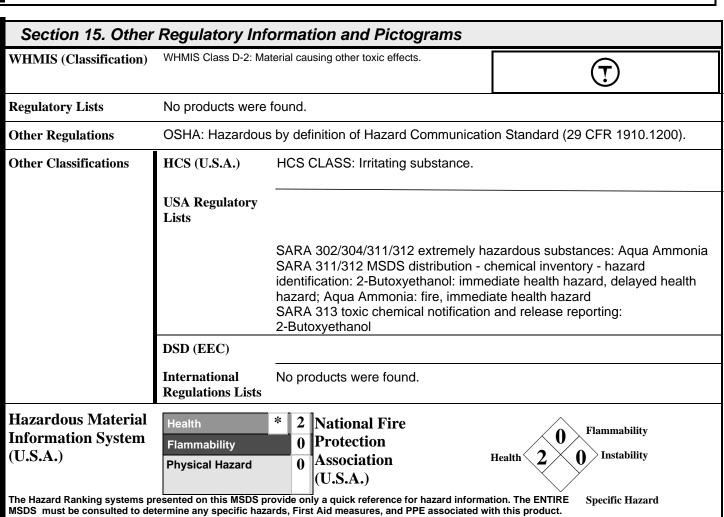
Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Incompatibility with Various Substances	No specific information is available in our database regarding the reactivity of this material in presence of various other materials.	
Hazardous Decomposition Not available. Products		

Section 11. Toxic	ological 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 Humans	
Eye	s Corrosive to eyes. May cause severe eye irritation.
Skii	Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Inhalatio	Hazardous in case of inhalation (lung irritant). Non-sensitizer for lungs.
Ingestio	n Irritating to mouth, throat and stomach. May be fatal if swallowed.
Chronic Effects on Humans	Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. 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 mucous membranes 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	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 3/2/2010. Verified by CRushton. Printed 3/3/2010.

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 3/2/2010. Deep Blue Concentrate 1:20 Page: 6/6

Continued on Next Page