

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: Material causing other toxic effects.

HCS Class: Irritating substance.

WHMIS (Classification)

HCS

WHMIS (Pictograms)		WHMIS (Classification)			HCS
Section 1. Chemical Product and Company Identification					
Product Name/ Trade name	Dee	p Blue Concentrate	Code		181
Synonym	Conce	entrated Glass Cleaner	CAS#		Not applicable.
Chemical Family	Not av	railable.	Validation	n Date	8/17/2005
Chemical Formula	Not ap	pplicable.	Print Date	e	8/17/2005
Manufacturer/ Supplier	1001 E	Corporation Brown Avenue o, Oh 43607 241-2156	In Case of Emergency	Che	emtrec (800) 424-9300
TSCA	TSCA I	nventory: All components listed or are exempt from listing.	<u></u>		
DSL/ NDSL	All com	nponents listed unless noted elsewhere on this MSDS		Pro	tective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
2-Butoxyethanol	111-76-2	20 - 23	ACGIH (United States). TWA: 20 ppm OSHA (United States). TWA: 50 ppm	ORAL (LD50): Acute: 1746 mg/kg [Rat].
Aqua Ammonia	1336-21-6	1 - 5	TWA: 50 ppm OSHA (United States). TWA: 50 ppm STEL: 35 ppm	Not available.
Sodium Lauryl Ether Sulfate	68891-38-3	1 - 5	Not available.	Not available.

Section 3. Hazards Identification		
Potential Acute Health Effects	Very hazardous in case of eye contact (irritant). Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant). Non-sensitizer for skin. Non-permeator by skin. Non-sensitizer for lungs. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching.	
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. Accidental 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	Section 7. Handling 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. Exposure Controls/Personal Protection		
Engineering Controls	Good general ventilation should be sufficient to control airborne levels.	
Personal Protection Eye	s Safety glasses.	
Bod	No special protective clothing is required.	
Respirator	A respirator is not needed under normal and intended conditions of product use.	
Hand	Gloves.	
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.

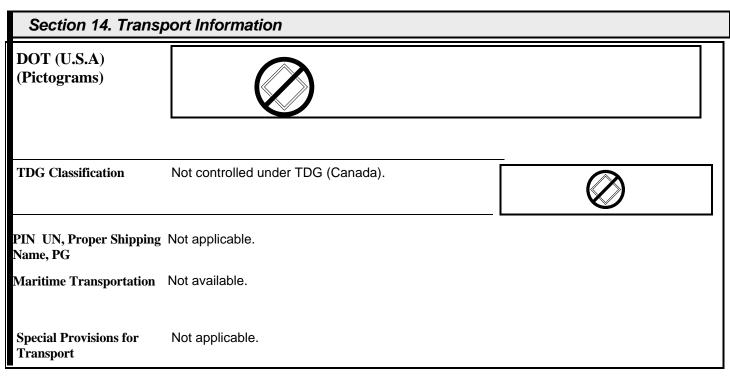
Section 9. Physica	al and Chemical Properties		
Physical State and Appearance	Liquid. (Clear sparkling liquid.)	Odor	Ammoniacal. (Strong.)
Molecular Weight	Not applicable.	Taste	Not available.
рН	10 to 11 [Basic.]	Color	Blue.
Boiling/Condensation Point	Not available.		
Melting/Freezing Point	Not available.		
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 on the presence of various materials.	our database	regarding the product's risks of explosion

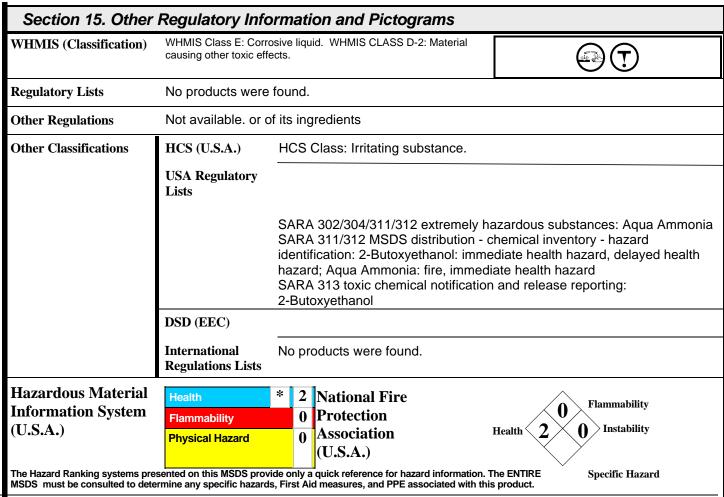
Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Incompatibility with Various Substances	No specific information is available in our database regarding the reactivity of this material in presence of various other materials.	
Hazardous Decomposition Products	Not available.	

Section 11. Toxico	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 Humans			
Eyes	May cause severe eye irritation.		
Skin	This product may irritate eyes and skin upon contact.		
Inhalation	HARMFUL IF INHALED.		
Ingestion	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. Ecolog	gical 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	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 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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