

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

WHMIS Class D-2B: Material causing other toxic effects (TOXIC).

HCS Class: Irritating substance.

WHMIS (Pictograms)

WHMIS (Classification)

HCS

WIIII (Tetogram)	WIEWIE (Chassification)			1100
Section 1. Chemical Product and Company Identification					
Product Name/ Trade name	Deep	o Blue (Aerosol)	Code		090
Synonym	Glass	Cleaner	CAS#		Mixture.
Chemical Family	N/A		Validation Da	ate	3/20/2004
Chemical Formula	N/A		Print Date		3/27/2004
Manufacturer/ Supplier	1001 E Toledo	Corporation Brown Avenue o, Ohio 43607 241-2156	In Case of Emergency	Che	mtrec (800) 424-9300
TSCA	TSCA I	nventory: All components listed or are exempt from listing.			
DSL/ NDSL	All com	ponents listed unless noted elsewhere on this MSDS		Pro	otective Clothing

Section 2. Composition and Information on Ingredients					
Name	CAS# % by Weight		Exposure Limits	$ ext{LC}_{50} / ext{LD}_{50}$	
1) Liquified Petroleum Gas	68476-85-7	5-10	TWA: 1000 (ppm) TWA: 1000 (ppm) from OSHA (PEL) [United States]	Not available.	
2) Ammonium Hydroxide	1336-21-6	0-5	TWA: 50 (ppm) TWA: 50 (ppm) from OSHA (PEL) [United States] STEL: 35 (ppm)	Not available.	
3) Propylene Glycol	57-55-6	0-5	Not available.	ORAL (LD50): Acute: 5000 mg/kg [Rat].	
4) 2-Butoxyethanol	111-76-2	0-5	TWA: 20 (ppm) from ACGIH (TLV) [United States] TWA: 50 (ppm) from OSHA (PEL) [United States]	ORAL (LD50): Acute: 1746 mg/kg [Rat].	
5) Sodium Nitrite	7632-00-0	<1	Not available.	Not available.	
6) Nonionic Surfactant	9036-19-5	0-5	Not available.	Not available.	

Section 3. Hazards I	Section 3. Hazards Identification			
Potential Acute Health Effects This product is an eye irritant.				
Potential Chronic Health Effects	Severe over-exposure can produce lung damage, choking, unconsciousness or death.			
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.			

Section 4. First Aid Measures		
Eye Contact	Flush eyes with large quantities of water. Seek medical 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. Do not induce vomiting. Seek medical attention immediately	

Section 5. Fire Fighting Measures		
Products of Combustion	Not Available	
Fire Fighting Media and Instructions	WAter, CO2, dry chemical.	
Special Remarks on Fire Hazards	N/A	
Special Remarks on Explosion Hazards	Heated cans may burst.	

Section 6. Accidental Release Measures		
Small Spill and Leak	N/A	
Large Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal.	
Personal Protection in Case of Gloves. Splash goggles. a Large Spill		

Section 7. Handling and Storage		
Precautions	After handling, always wash hands thoroughly with soap and water. Avoid contact with skin and eyes. Keep away from heat. Keep away from heat.	
Incompatibility	None known.	
Storage	Keep out of the reach of children. 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		
Eyes	Safety glasses.	
Body	No special protective clothing is required.	
Respiratory	Wear appropriate respirator when ventilation is inadequate.	
Hands	Gloves.	
Protective Clothing (Pictograms)		
-	Liquified Petroleum Gas TWA: 1000 (ppm) TWA: 1000 (ppm) from OSHA (PEL)	
	Ammonium Hydroxide TWA: 50 (ppm) TWA: 50 (ppm) from OSHA (PEL) STEL: 35 (ppm)	

2-Butoxyethanol

TWA: 25 (ppm) TWA: 50 (ppm) from OSHA (PEL)

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties			
Physical State and Appearance	Liquid	Odor	Characteristic.
Molecular Weight	Not applicable.	Taste	Not available.
pH	10.5 to 11.5 [Basic.]	Color	Off-white.
Boiling/Condensation Point	Not available.		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	50 psig @ 68°F		
Vapor Density	>1 (Air = 1)		
Volatility	99		
voc	Not available.		
Evaporation Rate	<1 compared to Butyl acetate.		
Dispersion Properties	Dispersed in cold water, hot water, methanol, or	diethyl ether	, n-octanol, acetone.
Solubility	Soluble		
The Product is:	COMBUSTIBLE.		
Auto-ignition Temperature	Not Applicable		
Flash Points	Not Aplicable		_
Flammable Limits	LOWER: 1.8% UPPER: 8.4%		
Fire Hazards in Presence of Various Substances	COMBUSTIBLE.		
Explosion Hazards in Presence of Various Substances	Heated Cans May burst		

Section 10. Stability and Reactivity Data	
Stability	Stable
Incompatibility with Various Substances	None known.
Hazardous Decomposition Products	not available

Section 11. Toxicolog	gical Information
Routes of Entry	Skin contact. INHALATION Ingestion. Eye Contact
Toxicity to Animals	not available
Acute Effects on Humans	
Eyes	Eye irritant. Liquid and mist may damage the eyes causing corneal injury.
Skir	Skin irritant. May cause moderate redness and swelling.
Inhalation	May be irritating to mucous membranes of the nose, throat, and lungs.
Ingestion	May cause dizziness, headache, nausea, vomiting, and diarrhea.
Chronic Effects on Humans	Severe over-exposure can produce lung damage, choking, unconsciousness or death.
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	Not Available	
Toxicity of the Products of Biodegradation	Not Applicable	
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 14. Transport Information DOT (U.S.A) (Pictograms) TDG Classification Not controlled under TDG (Canada). PIN UN, Proper Shipping Name, PG Maritime Transportation Not available. Special Provisions for Transport Not applicable. Not applicable.

Section 15. Other Regulatory Information and Pictograms				
WHMIS (Classification)	WHMIS Class D-2B: Material causing other toxic effects (TOXIC).			
Regulatory Lists	No products were found.			
Other Regulations	Not available. or of its ingredients			
Other Classifications	sifications HCS (U.S.A.) HCS Class: Irritating substance.			
	USA Regulatory Lists			
		SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Liquified Petroleum Gas: fire; 2-Butoxyethanol: immediate health hazard, delayed health hazard; Sodium Nitrite SARA 313 toxic chemical notification and release reporting: 2-Butoxyethanol; Sodium Nitrite		
	DSD (EEC)			
	International Regulations Lists	No products were found.		
		2 National Fire Protection Association (U.S.A.) ovide only a quick reference for hazard information. Trust, First Aid measures, and PPE associated with this		

Section 16. Other Information				
Validated by CRushton on 3/20/2004.		Verified by CRushton.		
		Printed 3/27/2004.		
Information Contact	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607			
Notice to Reader				
for the accuracy or completent Final determination of suitab	ess of the information contained herein.	r, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever ser. All materials may present unknown hazards and should be used with caution. Although ards that exist.		

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Deep Blue (Aerosol)