



# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

<p>WHMIS (Pictograms)</p>	<p>WHMIS Class D-2B: Material causing other toxic effects (TOXIC).</p> <p>WHMIS (Classification)</p>	<p>HCS Class: Irritating substance.</p> <p>HCS</p>
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## Section 1. Chemical Product and Company Identification

<b>Product Name/ Trade name</b> <b>Deep Blue (Aerosol)</b>	<b>Code</b> 090
<b>Synonym</b> Glass Cleaner	<b>Version Number</b>
<b>Chemical Family</b> N/A	<b>Validation Date</b> 3/3/2010
<b>Chemical Formula</b> N/A	<b>Print Date</b> 3/4/2010
<b>Manufacturer/ Supplier</b> Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156	<b>In Case of Emergency</b> Chemtrec (800) 424-9300
<b>TSCA</b> TSCA Inventory: All components listed or are exempt from listing.	<b>Protective Clothing</b> 
<b>DSL/ NDSL</b> All components listed unless noted elsewhere on this MSDS	

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
Liquified Petroleum Gas	68476-85-7	5-10	TWA: 1000 (ppm) TWA: 1000 (ppm) from OSHA (PEL) [United States]	Not available.
Ammonium Hydroxide	1336-21-6	0-5	TWA: 50 (ppm) TWA: 50 (ppm) from OSHA (PEL) [United States] STEL: 35 (ppm)	Not available.
Propylene Glycol	57-55-6	0-5	Not available.	ORAL (LD50): Acute: 5000 mg/kg [Rat].
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].
Sodium Nitrite	7632-00-0	<1	Not available.	Not available.
Nonionic Surfactant	9036-19-5	0-5	Not available.	Not available.

## Section 3. Hazards Identification

<b>Potential Acute Health Effects</b>	This product is an eye irritant.
<b>Potential Chronic Health Effects</b>	Severe over-exposure can produce lung damage, choking, unconsciousness or death.
<b>Carcinogenic Effects</b>	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 a Large Spill	Gloves. Splash goggles.

### 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**

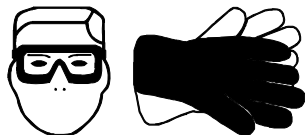
*Eyes*

*Body* No special protective clothing is required.

*Respiratory* Wear appropriate respirator when ventilation is inadequate.

*Hands* Gloves.

**Protective Clothing (Pictograms)**



**Exposure Limits**

**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

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

### Section 10. Stability and Reactivity Data

<b>Stability</b>	Stable
<b>Incompatibility with Various Substances</b>	None known.
<b>Hazardous Decomposition Products</b>	not available

### Section 11. Toxicological Information

Routes of Entry	Skin contact. INHALATION Ingestion. Eye Contact
Toxicity to Animals	not available
Acute Effects on Humans	<p><i>Eyes</i> Eye irritant. Liquid and mist may damage the eyes causing corneal injury.</p> <p><i>Skin</i> Skin irritant. May cause moderate redness and swelling.</p> <p><i>Inhalation</i> May be irritating to mucous membranes of the nose, throat, and lungs.</p> <p><i>Ingestion</i> May cause dizziness, headache, nausea, vomiting, and diarrhea.</p>
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

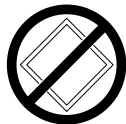
Ecotoxicity	Not Available
BOD5 and COD	Not Available
Products of Biodegradation	Not Available
Toxicity of the Products of Biodegradation	Not Applicable
Special Remarks on the Products of Biodegradation	No additional remark.

### 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 Not applicable.

Maritime Transportation Not available.

Special Provisions for Transport

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

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

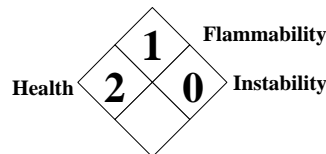
DSD (EEC)

International Regulations Lists No products were found.

Hazardous Material Information System (U.S.A.)

Health	2
Flammability	1
Physical Hazard	0

National Fire Protection Association (U.S.A.)



The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

### Section 16. Other Information

Validated by CRushton on 3/3/2010.

Verified by CRushton.

Printed 3/4/2010.

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 3/3/2010.

Deep Blue (Aerosol)

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