

# Material Safety Data Sheet

## Misty Heavy Duty Glass Cleaner Ready To Use

### Section 1. Chemical Product and Company Identification

<b>Product Name</b>	Misty Heavy Duty Glass Cleaner Ready To Use		
<b>Product Number</b>	BL0124		
<b>Product Use</b>	Non-Ammoniated Glass Cleaner		
<b>Manufacturer/Supplier</b>	Amrep, Inc. 990 Industrial Park Drive Marietta, GA 30062		
<b>Phone Number</b>	(770) 422-2071 (Mon-Fri/ 8am- 5pm ET)		
<b>D.O.T. Emergency Phone:</b>	CHEM TEL (800) 255-3924 INTERNATIONAL: + 01-813-248-0584		
<b>Date of Preparation</b>	April 27 2009	<b>Revision Number</b>	1.0

### Section 2. Hazards Identification

**Emergency overview** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### CAUTION!

Keep out of reach of children.  
Keep container closed during storage.

**Potential Acute Health Effects** Skin and eye irritant.

**Routes of Entry** Skin contact. INHALATION Eye Contact Ingestion.

**Eyes** Hazardous in case of eye contact (irritant).

**Skin** Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Inhalation** Hazardous in case of inhalation.

**Ingestion** Slightly hazardous in case of ingestion.

**Medical conditions aggravated by exposure:** Over-exposure by inhalation may cause respiratory irritation.

**Potential Chronic Health Effects** Over-exposure by inhalation may cause respiratory irritation.

**Carcinogenic Effects** Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

#### Target organs

**Environmental effects**

### Section 3. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
2-Butoxyethanol	111-76-2	1-5	TWA: 20 (ppm) from ACGIH (TLV) [United States] TWA: 50 (ppm) from OSHA (PEL) [United States]	ORAL (LD50): Acute: 1746 mg/kg [Rat].

#### Section 4. First Aid Measures

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
<b>General Advice</b>	In case of Accident or if you feel unwell, seek medical advice immediately (show label or MSDS where possible).
<b>Notes to Physician</b>	

#### Section 5. Fire Fighting Measures

<b>Flammability</b>	No specific information is available in our database regarding the flammability of this product in presence of various materials.
<b>Fire Fighting Media and Instructions</b>	Non-flammable substance.
<b>Products of Combustion</b>	Not available.
<b>Special Remarks on Fire Hazards</b>	N/A
<b>Special Remarks on Explosion Hazards</b>	
<b>Sensitivity to Mechanical Impact</b>	Not Available
<b>Sensitivity to Static Discharge</b>	Not Available
	N/A
<b>Protection of Fire Fighters</b>	See special remarks on Fire Hazards

#### Section 6. Accidental Release Measures

<b>Personal Precautions</b>	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
<b>Methods for Containment</b>	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
<b>Environmental precautions</b>	See Methods for Containment
<b>Methods for Clean Up</b>	See Methods for Containment

#### Section 7. Handling and Storage

<b>Precautions</b>	Avoid contact with skin and eyes. DO NOT ingest.
<b>Incompatibility</b>	No incompatible product according to our data base.
<b>Storage</b>	Keep out of the reach of children. Not for use or storage in or around the home.

Keep out of reach of children.  
Keep container closed during storage.

## Section 8. Exposure Controls/Personal Protection

### Engineering Controls

**Personal Protection** Good general ventilation should be sufficient to control airborne levels.

**Eyes** Splash goggles.

**Body** No special protective clothing is required.

**Respiratory** Wear appropriate respirator when ventilation is inadequate.

**Hands** Gloves.

### Protective Clothing (Pictograms)



### Exposure Limits

#### 2-Butoxyethanol

TWA: 25 (ppm)

TWA: 50 (ppm) from OSHA (PEL) [United States]

Consult local authorities for acceptable exposure limits.

## Section 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	Liquid.	<b>Odor</b>	Pleasant.
		<b>Color</b>	Blue.
<b>Molecular Weight</b>	Not applicable.		
<b>pH</b>	10 to 11 [Basic.]		
<b>Boiling/Condensation Point</b>	209°F initial		
<b>Melting/Freezing Point</b>	Not available.		
<b>Critical Temperature</b>	Not available.		
<b>Instability Temperature</b>	Not available.		
<b>Specific Gravity</b>	0.972 (Water = 1)		
<b>Vapor Pressure</b>	25mm Hg @ 68°F		
<b>Vapor Density</b>	>1 (Air = 1)		
<b>Volatility</b>	100		
<b>VOC</b>	Not available.		
<b>Evaporation Rate</b>	>1 compared to Water		
<b>Dispersion Properties</b>	See solubility in water.		
<b>Solubility</b>	Easily soluble in cold water.		
<b>The Product is:</b>	Non-flammable.		
<b>Auto-ignition Temperature</b>	Not available.		
<b>Flash Points</b>	CLOSED CUP: >98.889°C (210°F).		
<b>Flammable Limits</b>	Not available.		
<b>Fire Hazards in Presence of Various Substances</b>	No specific information is available in our database regarding the flammability of this product in presence of various materials.		

**Explosion Hazards in Presence of Various Substances**

Risks of explosion of the product in presence of static discharge: Not available.

**Section 10. Stability and Reactivity Data**

<b>Stability</b>	The product is stable.
<b>Incompatibility with Various Substances</b>	No incompatible product according to our data base.
<b>Hazardous Decomposition Products</b>	Will not occur.

**Section 11. Toxicological Information**

**Routes of Entry**

<b>Toxicity to Animals</b>	Skin contact. INHALATION Eye Contact Ingestion.
<b>Acute Effects on Humans</b>	<b>WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.</b> Acute oral toxicity (LD50): 1746 mg/kg [Rat]. (2-Butoxyethanol). Acute toxicity of the gas (LC50): 926 ppm 4 hour(s) [Mouse]. (2-Butoxyethanol).
<b>Eyes</b>	Hazardous in case of eye contact (irritant).
<b>Skin</b>	Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
<b>Inhalation</b>	Hazardous in case of inhalation.
<b>Ingestion</b>	Slightly hazardous in case of ingestion.
<b>Chronic Effects on Humans</b>	Over-exposure by inhalation may cause respiratory irritation.
<b>Special Remarks on Toxicity to Animals</b>	No additional remark.
<b>Special Remarks on Chronic Effects on Humans</b>	No additional remark.

**Section 12. Ecological Information**

<b>Ecotoxicity</b>	Not Available
<b>BOD5 and COD</b>	Not available.
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Toxicity of the Products of Biodegradation</b>	Not available.
<b>Special Remarks on the Products of Biodegradation</b>	No additional remark.

**Section 13. Disposal Considerations**

<b>Waste Information</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
<b>Waste Stream</b>	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

**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** This product does NOT contain components that are known to the state of California to Cause Cancer or Reproductive Harm at or above California Prop 65 No Observable Effect Level (NOEL) (Safe Harbor Level).

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: 2-Butoxyethanol: immediate health hazard, delayed health hazard

SARA 313 toxic chemical notification and release reporting: 2-Butoxyethanol

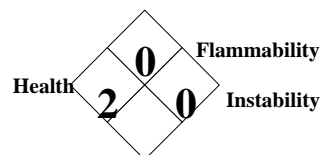
**DSD (EEC)**

**International Regulations Lists** No products were found.

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

Health	*	2
Flammability	0	0
Physical Hazard	0	0

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



Specific Hazard

**WHMIS (Classification)** WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC).



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

**Expiry date** 3 (Three Years) from the date of preparation indicated in Section 1

Validated by CRushton on 4/27/2009.

Verified by CRushton.

Printed 4/27/2009.

**Information Contact** **Amrep, Inc.**  
**990 Industrial Park Drive**  
**Marietta, GA 30062**

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 4/27/2009.

***Misty Heavy Duty Glass Cleaner  
Ready To Use***