

Material Safety Data Sheet

Misty Glass and Mirror Cleaner RTU

Section 1. Chemical Product and Company Identification

Product Name	Misty Glass and Mirror Cleaner RTU		
Product Number	BL00121		
Product Use	Glass and Surface Cleaner		
Manufacturer/Supplier	Amrep, Inc. 990 Industrial Park Drive Marietta, GA 30062		
Phone Number	(770) 422-2071 (Mon-Fri/ 8am- 5pm ET)		
D.O.T. Emergency Phone:	CHEM TEL (800) 255-3924 INTERNATIONAL: + 01-813-248-0584		
Date of Preparation	April 27 2009	Revision Number	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.

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

Potential Acute Health Effects This product is an eye irritant.

Routes of Entry Eye contact. Ingestion. Inhalation. Skin contact.

Eyes Eye irritant. Liquid and mist may damage the eyes causing corneal injury.

Skin Skin irritant. May cause moderate redness and swelling.

Inhalation Vapors may be irritating to mucous membranes of the nose, throat, and lungs.

Ingestion May cause headache, dizziness, nausea, vomiting, and diarrhea. Harmful if swallowed.

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 Classified A3 (Proven for animal.) by ACGIH [2-Butoxyethanol].

Target organs

Environmental effects

Section 3. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
2-Butoxyethanol	111-76-2	0-1	TWA: 20 (ppm) from ACGIH (TLV) [United States] TWA: 50 (ppm) from OSHA (PEL) [United States]	ORAL (LD50): Acute: 1746 mg/kg [Rat].
Ammonium Hydroxide	1336-21-6	<1	TWA: 50 (ppm) TWA: 50 (ppm) from OSHA (PEL) [United States] STEL: 35 (ppm)	Not available.

Section 4. First Aid Measures

Eye Contact	Flush with large quantities of water . Seek medica 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 and induce vomiting. Seek medical attention immediately.
General Advice	In case of Accident or if you feel unwell, seek medical advice immediately (show label or MSDS where possible).

Notes to Physician

Section 5. Fire Fighting Measures

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

Section 6. Accidental Release Measures

Personal Precautions	Splash goggles. Full suit. Boots. Gloves.
Methods for Containment	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Environmental precautions	See Methods for Containment
Methods for Clean Up	See Methods for Containment

Section 7. Handling and Storage

Precautions	Keep locked up. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.
Incompatibility	oxidizing agents
Storage	Keep locked up and out of the reach of children. Keep container tightly closed. 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

A respirator is not needed under normal and intended conditions of product use.

Hands

Gloves (impervious).

Protective Clothing (Pictograms)



Exposure Limits

2-Butoxyethanol

TWA: 25 (ppm)

TWA: 50 (ppm) from OSHA (PEL)

Ammonium Hydroxide

TWA: 50 (ppm)

TWA: 50 (ppm) from OSHA (PEL)

STEL: 35 (ppm)

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Characteristic. (Strong.)
		Color	Blue. (Dark.)
Molecular Weight	Not applicable.		
pH	10.5 to 11.5 [Basic.]		
Boiling/Condensation Point	209 F Initial		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	0.96 (Water = 1)		
Vapor Pressure	25mm Hg@ 68 F		
Vapor Density	>1 (Air = 1)		
Volatility	100		
VOC	Not available.		
Evaporation Rate	>1 compared to Water		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water.		

The Product is:	Non-flammable.
Auto-ignition Temperature	Not available.
Flash Points	Not applicable.
Flammable Limits	Not available.
Fire Hazards in Presence of Various Substances	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	No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	oxidizing agents
Hazardous Decomposition Products	Will not occur

Section 11. Toxicological Information

Routes of Entry	
Toxicity to Animals	Eye contact. Ingestion. Inhalation. Skin contact.
Acute Effects on Humans	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).
Eyes	Eye irritant. Liquid and mist may damage the eyes causing corneal injury.
Skin	Skin irritant. May cause moderate redness and swelling.
Inhalation	Vapors may be irritating to mucous membranes of the nose, throat, and lungs.
Ingestion	May cause headache, dizziness, nausea, vomiting, and diarrhea. Harmful if swallowed.
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation.
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	Not available.
Special Remarks on the Products of Biodegradation	No additional remark.

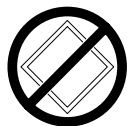
Section 13. Disposal Considerations

Waste Information Any method in accordance with applicable laws.

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

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).

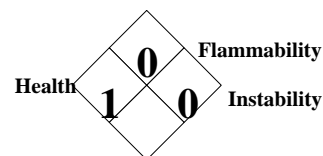
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: 2-Butoxyethanol: immediate health hazard, delayed health hazard
SARA 313 toxic chemical notification and release reporting: 2-Butoxyethanol

DSD (EEC)

International Regulations Lists No products were found.

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

Health	1	National Fire Protection Association (U.S.A.)
Flammability	0	
Physical Hazard	0	



Specific Hazard



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.**
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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.

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