

SAFETY DATA SHEET

1. IDENTIFICATION AND GENERAL INFORMATION

P/N#: **0351, 0355, 0355-01, 0360, 0362-01, 0357-01**
Nomenclature: **Lens Cleaning Solution**
Recommended Use of the Chemical & Restrictions on Use:
Uses: Eyeglass lens cleaner.
Company Name: Allegro Industries
Address: 1360 Shiloh Church Rd
Piedmont, SC 29673
864-846-8740
Chemtrac: 800-424-9300

2. HAZARDS IDENTIFICATION

Appearance: Clear, pale pink or pale blue liquid
Physical State: Liquid
Odor: Mild citrus

Classification:

The information below is for the liquid in industrial quantities when used in an industrial setting. The solution as packed in a consumer quantity is considered a consumer good and when used as intended is unlikely to present a hazard

Hazards Not Otherwise Classified (HNOC):

Causes mild skin irritation

3. COMPOSITION

Chemical Name	CAS No	Weight-%
Ethylene Glycol Monobutyl Ether	111-76-2	<6

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact: Wash with soap and water.
Inhalation: Remove to fresh air.
Ingestion: Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects:

Symptoms: Causes mild skin irritation.

Indication of any immediate medical attention and special treatment needed:

Notes to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media: Not determined.

Specific Hazards Arising from the Chemical: Not determined.

Protective equipment and precautions for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions: Avoid contact with skin, eyes or clothing.
Environmental Precautions: See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up:

Methods for Containment: Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling:

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes.
Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities:

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible Materials: None known based on information supplied.

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8. EXPOSURE CONTROLS

Exposure Guidelines:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene Glycol Monobutyl Ether 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m3 (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m3

Appropriate engineering controls:

Engineering Controls: Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment:

Eye/Face Protection: Avoid contact with eyes.
 Skin and Body Protection: Wear suitable protective clothing.
 Respiratory Protection: Ensure adequate ventilation, especially in confined areas.
 General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical State: Liquid
 Appearance: Clear, pale pink or pale blue liquid
 Color: Clear, pale pink or pale blue
 Odor: Mild citrus
 Odor Threshold: Not determined
 pH: 7
 Melting Point/Freezing Point: Not determined
 Boiling Point/Boiling Range: 100 °C / 210 °F
 Flash Point: Not determined
 Evaporation Rate: Not determined
 Flammability (Solid, Gas): Not determined
 Upper Flammability Limits: Not determined
 Lower Flammability Limit: Not determined
 Vapor Pressure: Not determined
 Vapor Density: 1.3
 Specific Gravity: 1.010
 Water Solubility: Soluble in water
 Solubility in other solvents: Not determined
 Partition Coefficient: Not determined
 Auto-ignition Temperature: Not determined
 Decomposition Temperature: Not determined
 Kinematic Viscosity: Not determined
 Dynamic Viscosity: Not determined
 Explosive Properties: Not determined
 Oxidizing Properties: Not determined
 VOC Content: 5.09

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.
 Chemical Stability: Stable under recommended storage conditions.
 Possibility of Hazardous Reactions: None under normal processing.
 Hazardous Polymerization: Hazardous polymerization does not occur.
 Conditions to Avoid: Keep out of reach of children.
 Incompatible Materials: None known based on information supplied.
 Hazardous Decomposition Products: None known based on information supplied.

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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Product Information:

Eye Contact: Avoid contact with eyes.
 Skin Contact: Causes mild skin irritation.
 Inhalation: Do not inhale.
 Ingestion: Do not ingest.

Component Information:

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol Monobutyl Ether 111-76-2	=470 mg/kg (Rat)	=2270 mg/kg (Rat) = 220 mg/kg (Rabbit)	=2.21 mg/L (Rat) 4 h = 450 ppm (Rat) 4 h
Sodium Bicarbonate 144-55-8	=4220 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects:

Symptoms: Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Carcinogenicity: Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylene Glycol Monobutyl Ether 111-76-2	A3	Group 3		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

Numerical measures of toxicity:

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity:

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information:

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethylene Glycol Monobutyl Ether 111-76-2		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50		1698-1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna/L EC50
Sodium Bicarbonate 144-55-8	650: 120 h Nitzschia linearis mg/L EC50	8250-9000: 96 h Lepomis macrochirus mg/L LC50 static		2350: 48 h Daphnia magna mg/L EC50

Persistence/Degradability: Not determined.

Bioaccumulation: Not determined.

Mobility:

Chemical Name	Partition Coefficient
Ethylene Glycol Monobutyl Ether 111-76-2	0.81

Other Adverse Effects: Not determined.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.
 Contaminated Packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations.

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14. TRANSPORT INFORMATION

Note: Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
DOT: Not regulated
IATA: Not regulated
IMDG: Not regulated

15. REGULATORY INFORMATION

International Inventories:

TSCA: Complies
 DSL: Does not comply
 NDSL: Does not comply
 EINECS: Does not comply
 ELINCS: Does not comply
 ENCS: Does not comply
 IECSC: Does not comply
 KECL: Does not comply
 PICCS: Does not comply
 AICS: Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

US Federal Regulations:

SARA 313:

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ethylene Glycol Monobutyl Ether 111-76-2	111-76-2	<6	1.0

US State Regulations:

U.S. State Right-to-Know Regulations:

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethylene Glycol Monobutyl Ether 111-76-2	X	X	X

16. OTHER INFORMATION

	<u>NFPA</u>		<u>HMIS</u>	
Health Hazards:	1		Health Hazards:	1
Flammability:	0		Flammability:	0
Instability:	0		Physical Hazards:	0
Special Hazards:	Not determined		Personal Protection:	Not determined

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