

SAFETY DATA SHEET

49224-1001

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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Rev. K

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