

# SAFETY DATA SHEET



## ARCTIC BLUE Anti-Fog Lens Cleaner

### Section 1. Identification

**GHS product identifier** : Arctic Blue Anti-Fog Lens Cleaner  
**Synonyms** : Biodegradable Cleaner  
**Product Code** : 4800

**Relevant identified uses of the substance or mixture and uses advised against**

**Recommended use** : Cleaning solution for glass and plastic lenses

**Supplier Details** : Como Lube & Supplies, Inc.  
PO Box 16987  
Duluth, MN 55802

**Emergency telephone number** : Technical Contact: 800-962-5417  
National Poison Center: 800-222-1222, CHEMTREC 800-424-9300

### Section 2. Hazard Identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 3  
EYE IRRITATION - Category 2A

**GHS Label elements**  
**Hazard pictograms** :



**Signal word** : Warning.  
**Hazard statements** : Flammable liquid and vapor.  
Causes serious eye irritation.

**Precautionary statements**

**General** : Keep away from ignition sources such as heat/sparks/open flames – No smoking. Use only in accordance with label instruction.  
**Prevention** : **Not For Use on Contact Lenses. Keep Out of Reach of Children**  
**Response** :  
**Storage** : Store in a cool, well-ventilated place.  
**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations. Avoid release to the environment.

**Hazards not otherwise classified** : Not Classified

### Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture  
**Other means of Identification** : Lens Cleaner

Ingredient name	%	CAS number	EINECS / ELINCS #
Methanol	9 - 11	67-56-1	200-659-6
Detergent			NA
Purified Water		7732-18-5	231-791-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye** : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
- Inhalation** : Normal use of this product does not pose an inhalation hazard. However, should respiratory tract irritation develop, discontinue use and remove to fresh air. Get medical attention if irritation or other symptoms develop or persist.
- Skin contact** : Should irritation develop, discontinue use. Wash affected skin thoroughly with soap and water. Get medical attention if irritation or other symptoms develop or persist.
- Ingestion** : If swallowed, DO NOT induce vomiting. Seek medical attention immediately.

### Most important symptoms/effects, acute

#### Potential acute health effects

- Eye** : Not available.
- Inhalation** : Not available.
- Skin contact** : Not available.
- Ingestion** : Not available.

### Over-exposure signs/symptoms

- Eye** : Not available.
- Inhalation** : Not available.
- Skin contact** : Not available.
- Ingestion** : Not available.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Material if ingested may be aspirated into the lungs and can cause chemical pneumonitis. Treat appropriately.
- Specific treatments** : Not available.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Specific hazards arising from the chemical

- : Not available.

### Extinguishing media

- Suitable extinguishing media** : Carbon dioxide, dry chemical powder, appropriate foam or water fog.
- Unsuitable extinguishing media** : Not available.
- Hazardous thermal decomposition products** : During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

### Special protective actions for

**fire-fighters** : As in any fire, wear self-contained breathing apparatus and full protective gear to prevent contact with skin and eyes..

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

**For emergency responders** : Wear suitable protective eyewear, clothing, respiratory protection, rubber boots and rubber gloves. Shut off all sources of ignition. Evacuate immediate area. Ensure adequate ventilation. Refer to Sections 7 and 8.

**Environmental precautions** : Prevent spilled material from entering storm sewers or drains, waterways, and contact with soil.

### Methods and materials for containment and cleaning up

**Small spill** : Isolate hazard area. Prevent from entering drains and sewers. Cover with vermiculite or other suitable inert material, pick up and place in closed containers. Transport outdoors and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete. Refer to Section 13 for appropriate disposal procedures.

**Large spill** : Not available.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Avoid contact with eyes. Avoid prolonged or repeated exposure to skin or mucous membranes, and breathing mists/vapors. Use in a well ventilated area, away from all ignition sources. Wash thoroughly with soap and water after handling.

**Advice on general occupational Hygiene** : Not available.

### Conditions for safe storage

**Including any incompatibilities** : Store product at room temperature, in a well ventilated area away from heat, sparks or flames. Discard appropriately if package integrity is compromised.

## Section 8. Exposure controls/personal protection

### Control parameters

**Occupational exposure limits** : **Not available**

**Appropriate engineering controls** : Use with good general ventilation. No special controls required.

**Environmental exposure controls** : Not available

### Individual protection measures

<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Eye/face protection</b>	: Avoid contact with the eye. No special controls or personal protection required under conditions of intended use. In the event of a spill, appropriate eye protection should be worn.
<b>Skin protection</b>	
<b>Hand protection</b>	: No special controls or personal protection required under conditions of intended use. In the event of a spill, use rubber gloves.
<b>Body protection</b>	: Not available
<b>Other skin protection</b>	: Not available
<b>Respiratory protection</b>	: No special controls or personal protection required under conditions of intended use. In the event of a spill, a NIOSH-certified air-purifying respirator with organic vapor cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits and when adequate oxygen is present. Use a positive pressure air-supplied respirator if there is any potential for an uncontrolled release or any other circumstances where air purifying respirators may not provide adequate protection.

## Section 9. Physical and chemical properties

<b>Physical state</b>	: Liquid.
<b>Color</b>	: Milky white.
<b>Odor</b>	: Slight ethanol odor.
<b>pH</b>	: Not determined.
<b>Boiling point</b>	: Not determined.
<b>Flash point</b>	: 30°C (86°F) ASTM Method D1310-86
<b>Evaporation rate</b>	: Not determined
<b>Lower and upper explosive (flammable) limits</b>	: Lower: Not determined. Upper: Not determined.
<b>Auto-ignition temperature</b>	: Not determined.
<b>Vapor pressure</b>	: Not determined.
<b>Vapor density</b>	: Not determined.]
<b>Relative density</b>	: 0.96
<b>Solubility</b>	: Insoluble in the following materials: cold water and hot water.
<b>Density lbs/gal</b>	: Not determined.
<b>Gravity, °API</b>	: Not determined
<b>Viscosity</b>	: Not determined

## Section 10. Stability and reactivity

<b>Reactivity</b>	: No known hazards.
<b>Chemical stability</b>	: Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	: None are known..
<b>Conditions to avoid</b>	: Heat, sources of ignition.
<b>Incompatible materials</b>	: Caustics, strong acids, alkanolamines, strong oxidizing agents, and chlorinated compounds.
<b>Hazardous decomposition Products</b>	: None known

## Section 11. Toxicological information

**Information on toxicological effects****Acute toxicity**

<b>Product/ingredient name</b>	<b>Result</b>	<b>Species</b>	<b>Dose</b>	<b>hours</b>
Methanol	LD50 Oral	Rat	5628 mg/kg	-
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LC50 Inhalation	Rabbi	16000 ppm	8

**Conclusion/Summary** : **NOTE:** Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

**Irritation/Corrosion**

<b>Product/ingredient name</b>	<b>Result</b>	<b>Species</b>	<b>Score</b>	<b>Exposure</b>	<b>Observation</b>
Methanol	Eye – Severe irritant	Rabbit	-	100 mg	-
	Skin – Moderate irritant	Rabbit	-	500 mg	-

**Skin** : No additional information.

**Eyes** : No additional information.

**Respiratory** : No additional information.

**Sensitization**

**Skin** : No additional information.

**Eyes** : No additional information.

**Respiratory** : No additional information.

**Mutagenicity**

**Conclusion/Summary** : No additional information.

**Carcinogenicity****Classification**

**Conclusion/Summary** : No additional information

**Reproductive toxicity**

**Conclusion/Summary** : No additional information.

**Teratogenicity**

**Conclusion/Summary** : No additional information.

**Specific target organ toxicity (single exposure)**

**Specific target organ toxicity** : Not available.

**(repeated exposure)**

**Aspiration hazard**

:

**Information on the likely routes of exposure**

: Dermal contact, Eye contact, Inhalation, Ingestion.

**Potential acute health effects**

**Eye** : Causes serious eye irritation.

**Inhalation** : Normal use of this product does not pose an inhalation hazard. However, should respiratory tract irritation develop, discontinue use and remove to fresh air. Get medical attention if irritation or other symptoms develop or persist.

**Skin contact** : Should irritation develop, discontinue use. Wash affected skin thoroughly with soap and water. Get medical attention if irritation or other symptoms develop or persist.

**Ingestion** : If swallowed, DO NOT induce vomiting. Seek medical attention immediately.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye** : No additional information.

**Inhalation** : No additional information.

**Skin contact** : No additional information..

<b>Ingestion</b>	: No additional information.
<b>Potential chronic health effects</b>	
<b>General</b>	: No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

## Section 12. Ecological information

### Toxicity

### Persistence and degradability

**Conclusion/Summary** : No specific ecological data are available for this product.

### Bioaccumulative potential

### Mobility in soil

#### Soil/water partition

**Coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the sole responsibility of the waste generator.

## Section 14. Transport information

	<b>DOT Classification</b>	<b>IMDG</b>	<b>IATA</b>
<b>UN number</b>	Not Regulated. Exempt under Part 172.102 (c)47, Special Provisions	Not Regulated.	Not Regulated. Exempt under Part 172.102 (c)47, Special Provisions
<b>UN proper shipping name</b>	-	-	-
<b>Transport hazard class(es)</b>	NA	NA	NA
<b>Packaging group</b>	NA	NA	NA
<b>Environmental hazards</b>	NA	NA	NA
<b>Additional information</b>	-	-	-

**Special precautions for user** : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code**

: Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : Anti-Fog Lens Cleaner is considered hazardous under the Occupational Safety & Health Administration Hazard Communication Standard.

**SARA 302/304** : SECTION 302 (Extremely Hazardous Substances): No Components Listed

Composition/information on ingredients

SARA 304 RQ : Not applicable.

SARA 311/312Classification : Fire hazard  
Delayed (chronic) health hazard.Composition/information on ingredients

SARA 313 : No Components Listed

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : Not determined.

New York : Not determined.

New Jersey : Not determined.

Pennsylvania : Not determined.

California Prop. 65 : This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Ingredient name	%	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Naphthalene	< 1.0	Yes.	No.	Yes.	No.
Vinyl acetate	<0. 1	Yes.	No.	No.	No.

International regulationsInternational lists: **Australia inventory (AICS):** Not determined.**China inventory (IECSC):** Not determined.**Japan inventory:** Not determined.**Korea inventory:** Not determined.**Malaysia Inventory (EHS Register):** Not determined.**New Zealand Inventory of Chemicals (NZIoC):** Not determined.**Philippines inventory (PICCS):** Not determined.**Taiwan inventory (CSNN):** Not determined.EU inventory

: All components are listed or exempted.

CanadaCanada inventory

: All components are listed or exempted.

WHMIS (Canada)

: Not determined.

**Section 16. Other information**National Fire Protection Association (U.S.A.)Flammability

Health

Instability/Reactivity

Special

This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of revision / Supersedes : 06/01/2015 : 04/16/2001

**Key to abbreviations**

ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labeling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogP<sub>ow</sub> = logarithm of the octanol/water partition coefficient  
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
UN = United Nations

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