

Lens Cleaner

SDS Preparation Date (dd/mm/yyyy): 22/09/2022

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SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**1.1 Product identifier : Lens Cleaner**

Product Code(s) : Not available.

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

: Glass cleaner

Use pattern: Professional Use Only

Restrictions on use: Keep out of reach of children.

1.3 Details of the supplier of the safety data sheet:**Rosco Laboratories Inc.**

Kangley Bridge Rd.

London SE26 5AQ, United Kingdom

Telephone : (+44 (0)20 8659 2300

52 Harbor View Avenue

Stamford, CT, United States 06902

Telephone : (203) 708 8900

1.4 Emergency Telephone Number

: In case of a transportation accident, contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887.

1.5 National Contact

: 001 (203) 708 8900

www.rosco.com

salesadmin@rosco.com

SECTION 2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Clear colourless liquid. Alcohol odour.

Most important hazards: Flammable liquid and vapor. May be ignited by open flame. Causes serious eye irritation. Inhaling high concentrations may cause central nervous system depression, with effects ranging from dizziness and headache to unconsciousness.

This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008.

Hazard classification:

Flammable Liquid - Category 3; H226

Serious eye damage/eye irritation - Category 2A ;H319

Specific target organ toxicity, single exposure - Category 3 (narcotic effects);H336

2.2 Label elements

Hazard pictogram(s)



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Signal word

Warning!

Hazard statements

- H226 - Flammable liquid and vapour.
- H319 - Causes serious eye irritation.
- H336 - May cause drowsiness or dizziness.

Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking.
- P261 - Avoid breathing vapours.
- P280 - Wear protective gloves and eye/face protection.
- P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P370 + P378 - In case of fire, use dry chemical, CO2 or 'alcohol foam' to extinguish.
- P403 + P233 - Store in a well-ventilated area. Keep container tightly closed.
- P501 - Dispose of contents/container in accordance with local regulation.

Supplemental information

- EUH066 - Repeated exposure may cause skin dryness or cracking.
- EUH210 - Safety data sheet available on request.
- P102 - Keep out of reach of children.

2.3 Other hazards

Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature of the mixture :Alcohol solution.

Substance name	CAS No	EC No.	Reach Registration No.	% Weight	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
Ethyl alcohol	64-17-5	200-578-6	Not available	40.0 - 70.0	Flam. Liq. 2; H225	Not applicable.

For the full text of the H phrases not mentioned in this Section or in Section 2, see Section 16.

*The classifications listed are in addition to those appearing in Annex VI of Regulation (EC) No. 1272/2008.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

- Ingestion* : None required when used as intended. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- Inhalation* : None required under normal conditions.
- Skin contact* : None required under normal conditions. If skin irritation or rash occurs: Get medical advice/attention.
- Eye contact* : Immediately flush eyes with running water for at least 15 minutes. Obtain medical attention if irritation persists.

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4.1.2 Self-protection for the first aider

: None known or reported by the manufacturer.

4.2 Most important symptoms and effects, both acute and delayed

: Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis. Direct skin contact may cause slight or mild, transient irritation. Inhalation of high concentrations may cause fatigue, difficulty breathing, headache, giddiness, mental confusion and nausea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

: Treat symptomatically. This product is a CNS depressant.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

: Use water fog or fine spray, foams, carbon dioxide or dry chemical. Do not use a solid water stream as it may scatter and spread fire.

Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

: Flammable liquid and vapor. Vapors may travel considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material.

5.3 Advice for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Normal protective clothing (bunker gear) may not be adequate. A full-body encapsulating chemical protective suit may be necessary.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

: None required under normal conditions.

6.2 Environmental precautions

: Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

: Wipe up with absorbent material (e.g. cloth, fleece).

6.4 Reference to other sections

: Refer to Section 5 for firefighting instructions. Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Do not ingest or swallow. Observe good industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

: Store in a cool, dry, well-ventilated area. Store away from incompatible materials.

7.3 Specific end use(s)

: Glass cleaner

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:

<u>Chemical Name</u>	<u>Exposure Limits</u>	<u>Type</u>	<u>Notes</u>
Ethyl alcohol	None known.	European Union (OEL)	None.
	1000 ppm (1900 mg/m ³) (TWA)	France (OEL)	None.
	5000 ppm (9500 mg/m ³) (STEL)		
	1900 mg/m ³ (TWA)	Hungary (OEL)	None.
	7600 mg/m ³ (STEL)		
	1900 mg/m ³ (TWA)	Poland (OEL)	None.
	1000 ppm (1910 mg/m ³) (TWA)	Spain (OEL)	None.
	1000 ppm (1920 mg/m ³) (TWA)	The United Kingdom (WELs)	None.

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

8.2 Exposure controls

Ventilation and engineering measures

: None required under normal conditions.

Respiratory protection : None required when used as intended.

Skin protection : None required when used as intended.

Eye / face protection : None required when used as intended.

Other protective equipment

: None required when used as intended.

General hygiene considerations

: Observe good industrial hygiene practices.

8.3 Environmental exposure controls

: Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Clear colourless liquid.

Colour : colourless

Odour : Alcohol

Odour threshold : 100 ppm (detectable)
63 ppm (recognizable)

pH : N/A

Flash point : 27°C

Flashpoint (Method) : closed cup

Lower flammable limit (% by vol.)

: Not available.

Upper flammable limit (% by vol.)

: Not available.

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- Auto-ignition temperature : 399°C (750.2°F)
- Decomposition temperature : Not applicable.
- Oxidizing properties : None.
- Explosive properties : Not explosive
- Initial boiling point and boiling range : 86°C
- Melting/Freezing point : Not available.
- Relative density : 1.43
- Solubility in water : Appreciable. (10.0-99.99%)
- Other solubility(ies) : Not available.
- Vapour pressure : Not available.
- Vapour density : Not available.
- Partition coefficient: n-octanol/water : Not available.
- Viscosity : Not available.
- Evaporation rate (BuAe = 1) : Not available.
- Particle characteristics : Not applicable.

9.2 Other Information

- Volatiles (% by weight) : Not available.
- Volatile organic Compounds (VOC's) : Not applicable.
- Other physical/chemical comments : None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

- 10.1 Reactivity : Not normally reactive.
- 10.2 Chemical stability : Stable under the recommended storage and handling conditions prescribed.
- 10.3 Possibility of hazardous reactions : Hazardous polymerization will not occur.
- 10.4 Conditions to avoid : Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Avoid contact with incompatible materials.
- 10.5 Incompatible materials : Strong oxidizing agents; Strong acids.; Alkali metals; Aluminium.
- 10.6 Hazardous decomposition products : None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

- Acute toxicity : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.
- Skin corrosion/Irritation : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.
- Serious eye damage/irritation : Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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Respiratory or skin sensitisation

- : Not expected to be a skin or respiratory sensitizer.
- Germ cell mutagenicity** : Not expected to be mutagenic in humans.
- Carcinogenicity** : Not classifiable as a human carcinogen. No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive toxicity** : Not expected to have other reproductive effects.
- STOT-single exposure** : May cause drowsiness or dizziness.
- STOT-repeated exposure** : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.
- Aspiration hazard** : According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.
- Routes of exposure** : Inhalation Eye contact Skin contact Ingestion
- Effects of acute exposure** : Ingestion :Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause drowsiness or dizziness. Symptoms may include nausea, vomiting, dizziness, drowsiness and other symptoms of central nervous system depression.

Inhalation: Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects.

Eye contact:Causes serious eye irritation. Symptoms may include severe pain, tearing, redness, swelling and blurred vision.

Skin contact :Direct skin contact may cause temporary redness.

Potential Chronic Health Effects

- : Prolonged or repeated skin contact may cause drying and irritation.

Information on other Hazards

- : None known or reported by the manufacturer.

11.1.1 Acute Toxicity

Toxicological data

- : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC50(4hr)</u> <u>inh, rat</u>	<u>LD50</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Ethyl alcohol	> 32 380 ppm (61 mg/L) (vapour)	7060 mg/kg	> 15 800 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

- : Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Ethyl alcohol	64-17-5	> 100 mg/L (Fathead minnow)	N/Av	None.

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<u>Ingredients</u>	CAS No	<u>Toxicity to Daphnia</u>		
		EC50 / 48h	NOEC / 21 day	M Factor
Ethyl alcohol	64-17-5	5012 mg/L (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS No	<u>Toxicity to Algae</u>		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Ethyl alcohol	64-17-5	1000 mg/L/96hr (Green algae)	N/Av	None.

12.2 Persistence and degradability

: Readily biodegradable.

12.3 Bioaccumulation potential

: Does not significantly accumulate in organisms. See the following data for ingredient information.

Components

<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Ethyl alcohol (CAS 64-17-5) - 0.31	N/Av

12.4 Mobility in soil

: No data is available on the product itself.

12.5 Results of PBT and vPvB assessment

: This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

12.7 Other Adverse Environmental effects

: No data is available on the product itself.

12.8 Additional information

: None known or reported by the manufacturer.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal : See Section 7 (Handling and Storage) for further details. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.

Methods of Disposal : Dispose of in accordance with the European Directives on waste and hazardous waste. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

SECTION 14. TRANSPORTATION INFORMATION

<u>Regulatory Information</u>	14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing Group	Label
ICAO/IATA	UN1170	Ethyl alcohol solution	3	III	



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ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction				
IMDG	UN1170	ETHANOL SOLUTION more than 24 per cent ethanol	3	III	
IMDG Additional information	Consult the IMDG regulations for exceptions.				
ADR/RID	UN1170	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	3	III	
ADR/RID Additional information	May be shipped as a Limited Quantity when transported in containers no larger than 5 L (1.3 gallons); in packages not exceeding 30 kg (66 pounds) gross mass.				

14.5 Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

14.6 Special precautions for user

: Keep away from heat, sparks and open flame - No smoking.

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

: Not available.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous substances and mixtures.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: None of the components are specifically listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended None of the components are specifically listed.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances: (CAS # 64-17-5) P5c FLAMMABLE LIQUIDS

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work: None of the components are specifically listed.

Directive 94/33/EC on the protection of young people at work: None of the components are specifically listed.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) No. 453/2010]. Follow national regulation for work with chemical agents.

German legislation on water endangering substances VwVwS Water contaminating class (Germany) 1self classified

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.

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SECTION 16. OTHER INFORMATION

Legend

: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstract Services
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
EC: European Community
EC50: Effective Concentration 50%
ECHA: European Chemicals Agency
EEC: European Economic Community
IMDG: International Maritime Dangerous Goods
LC: Lethal Concentration
LD: Lethal Dose
NOEC: No observable effect concentration
OECD: Organisation for Economic Co-operation and Development
OEL: National occupational exposure limits
PEL: Permissible exposure limit
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
RTECS: Registry of Toxic Effects of Chemical Substances
TWA: Time Weighted Average

Information Source

- : 1. Material Safety Data Sheet from manufacturer.
2. Canadian Centre for Occupational Health and Safety, CCIInfoWeb Databases
3. European Chemicals Agency, Classification Legislation
4. OECD - The Global Portal to Information on Chemical Substances

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Regulation and Procedure

Flammable; Expert judgement
Eye irritation; Expert judgement
Specific target organ toxicity, single exposure; Expert judgement

H-phrases (full-text)

H226 - Flammable liquid and vapour.
H318 - Causes serious eye damage.
H336 - May cause drowsiness or dizziness.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:

Rosco Laboratories Inc.
52 Harbor View Avenue
Stamford, CT, United States, 06902
Telephone: 001 (203) 708 8900



Prepared by:

ICC The Compliance Center Inc.
<http://www.thecompliancecenter.com>



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Rosco Laboratories Inc.
Kangley Bridge Rd.
London SE26 5AQ, United Kingdom
Telephone: +44(0)20 8659 2300

Rosco Laboratories Inc.
52 Harbor View Avenue
Stamford, CT, United States, 06902
Telephone: 001 (203) 708 8900

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