

SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name : **LENS CLEANER**

Product Use : Cleaner - Glass

Chemical Family : Alcohol solution.

Supplier's name and address : **Rosco Laboratories Inc.**
52 Harbor View Avenue
Stamford, CT, United States
06902

24 Hr. Emergency Tel # : (800) 424-9300 Chemtrec U.S.
(703) 527-3887 Chemtrec Outside U.S.

HMIS Rating : *
 - Chronic Hazard 0 – Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe
 Health: 1 Flammability: 3 Reactivity: 0

WHMIS Classes:



FLAMMABLE



TOXIC

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear liquid. Alcohol odour. Flammable liquid and vapor. Irritating to eyes, respiratory system and skin. Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

POTENTIAL HEALTH EFFECTS

Target organs : Reproductive system. Eyes, skin, respiratory system.

Routes of exposure : *Inhalation: YES Skin Absorption: NO Skin & Eyes: YES Ingestion: YES*

Potential acute health effects :

Eyes: Severe eye irritation stinging or burning sensation, swelling, redness and watering.

Skin: Can cause irritation, minor itching, burning and/or redness.

Inhalation: Possible headache. Nausea.

Ingestion: Dizziness, headache, and nausea.

Potential chronic health effects : Chronic intensive skin contact may cause dermatitis. Some reports have associated repeated, prolonged overexposure to solvents with permanent central nervous system changes.

Medical conditions aggravated by overexposure

: None known or reported by the manufacturer.

Addition health hazards : None reported by the manufacturer.

Potential environmental effects : None reported by the manufacturer.



SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (weight)	ACGIH TLV		OSHA PEL	
			TWA	STEL	PEL	STEL
Ethanol	64-17-5	40.0 – 70.0	1000 ppm TWA	N/Av	1000 ppm TWA: 1900 Mg/m3TWA	N/Av

SECTION 4 – FIRST AID MEASURES

Inhalation	: If inhaled, move to fresh air. If irritation persists, seek prompt medical attention.
Skin contact	: Remove and wash contaminated clothing before re-use. Wash affected areas with soap and water.
Eye contact	: Flush eyes thoroughly with running water for at least 20 minutes, holding eyelids open to ensure complete flushing. If irritation persists, seek prompt medical attention.
Ingestion	: Do not induce vomiting without medical advice. Drink 1 or 2 glasses of water. Call a physician immediately. Clean mouth with water and drink afterwards plenty of water.
Notes for physician	: Treat symptomatically. Flammable liquid and vapour.

SECTION 5 – FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability	: Flammable liquid and vapour. Flammable vapours are heavier than air and may travel a distance from the source of the product.
Flammability classification (OSHA 29 CFR 1910.1200)	: OSHA Flammable Liquid Class 1C.
Flash point	: 27.c (estimated)
Flash point Method	: Not available.
Lower flammable limit (% by vol.)	: Not available.
	Auto-ignition temperature : Not available.
	Upper flammable limit (% by vol.) : Not available.
Suitable extinguishing media	: Does not sustain combustion. Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
Explosion data: Sensitivity to mechanical impact / static discharge	: May ignite explosively on exposure to static if heated above the flash point. Not expected to be sensitive to mechanical impact.
Special fire-fighting procedures/equipment	: Firefighters should wear full-face, self-contained breathing apparatus (MSHA / NIOSH approved or the equivalent) and impervious clothing.
Hazardous combustion products	: Oxides of carbon.
Oxidizing properties	: None known or reported by the manufacturer.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions	: Caution! Spilled material may be slippery. Use care to avoid falling. Wear suitable protective clothing (see Section 8). Eliminate all ignition sources.
Environmental precautions	: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
Spill response/cleanup	: Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).



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Water spray: Dilute with water. Flush any residue in the spill area with water. Dispose of rinse water in accordance with local and national regulations. Qualified individuals should dispose of at an approved incineration facility.

Containment : Transfer liquid to containers for recovery or disposal. Dispose of in accordance with local regulations.

SECTION 7 – HANDLING AND STORAGE

Safe Handling procedures : Use and store in a cool, dry, well-ventilated area. Avoid breathing vapors. Avoid contact with eyes, skin and clothing. Do not ingest. Keep containers closed when not in use. Use with adequate ventilation. Ground and bond containers when transferring material.

Storage requirements : Store in a cool, dry, well-ventilated area. Inspect periodically for damage or leaks. Do not freeze. Keep away from heat.

Incompatible materials : Oxidizing agents.

Special packaging materials : Liquid-proof glass, plastic or non-corrodible metal containers are recommended.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering measures : Local exhaust is preferable. Use with adequate ventilation. Provide adequate cross air circulation. Ensure fresh air during application and drying (for example, by opening all windows and doors or using mechanical ventilation).

Respiratory protection : None required under normal conditions.

Skin protection : None required under normal conditions.

Eye / face protection : None required under normal conditions. If splashing is anticipated, splash goggles and a face shield are recommended.

Other protective equipment : Emergency showers and eyewash facilities should be nearby.

General hygiene considerations : Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid	Appearance	: Clear liquid.
Odor	: Slight alcohol odor	Odor threshold	: 100 ppm (detectable) 63 ppm (recognizable)
pH	: Not available.		
Boiling point	: 86 °C	Specific gravity	: 1.43
Melting/Freezing point	: Not available.	Coefficient of water/oil distribution	: Not available.
Vapor pressure (mmHg @20°C/ 68°F):	Not available.	Solubility in water	: Appreciable. (10.0 – 99.9%)
Vapor density (Air = 1)	: Heavier than air.	Evaporation rate (n-Butyl acetate= 1)	: Slower than ether.
Volatile organic Compounds (VOC's) (lbs/gal: g/l)	: Not available.	Volatiles (% by weight)	: Not available.
Viscosity	: Not available.		
Special Remarks On Fire Hazards	: Flammable liquid and vapor.		

SECTION 10 – REACTIVITY AND STABILITY DATA

Stability and reactivity : Stable under normal conditions.

Hazardous polymerization : Will not occur.

Conditions to avoid : High temperatures. Fire or intense heat may cause violent rupture of packages.

Materials to Avoid and Incompatibility : Oxidizing agents.

Hazardous decomposition products : See hazardous combustion products.



SECTION 11 – TOXICOLOGICAL INFORMATION

Ingredients	LC ₅₀ (4hr) inh, rat	LD ₅₀	
		oral	dermal
Ethanol	21000 ppm (mouse)	7060 mg/kg (rat)	N/Av

- Toxicological data : Low order of toxicity for normal industrial handling.
- Carcinogenic status : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive effects : Reproductive effects reported on human embryo and fetus with exposure to ethanol.
- Teratogenicity : Contains substances that may damage genetic material or cause embryotoxic/ fetotoxic effects.
- Mutagenicity : Contains ethanol, suspected of being a mutagen, based on animal data.
- Reproductive effects : Reproductive effects reported on human embryo and fetus with exposure to ethanol.
- Irritancy : Irritating to eyes and skin.
- Sensitization to material : Not expected to be a sensitizer.
- Synergistic materials : None reported by the manufacturer.

SECTION 12 – ECOLOGICAL INFORMATION

- Environmental effects : None known or reported by the manufacturer. However, it is recommended not to allow the material to enter the environment.
- Important environmental characteristics : None known or reported by the manufacturer.
- Ecotoxicological : No data is available on the product itself.

SECTION 13 – DISPOSAL CONSIDERATIONS

- Handling for Disposal : See Section 7 (Handling and Storage) section for further details.
- Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

SECTION 14 – TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	UN1170	ETHANOL more than 24 per cent ethanol by volume	3	II	
TDG Additional information	May be shipped as LIMITED QUANTITY in containers of less than 1.0 L in packages not exceeding 30 kg gross mass.				
49CFR/DOT	1UN1170	ETHANOL more than 24 per cent ethanol, by volume	3	III	
49CFR/DOT Additional information	May be shipped as LIMITED QUANTITY in containers of less than 1 DU				
ICAO/IATA	UN1170	Ethanol	-None-	II	



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ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction Y 3 0 5 , 305, or 307.				
IMDG	UN1170	Ethanol	3	II	
IMDG Additional information	Packing Code: P001 Packing Special Provisions: P IBC Code: IBC02 IBC Special Provision: - IMO Tank Instructions: T1 UN Tank Instructions: T4 Tank Special Provisions: TP1				

SECTION 15 – REGULATORY INFORMATION

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

SARA Section 313: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical Constituents above de minimus concentrations.

US State Right to Know Laws:

California Proposition 65: This product contains a chemical known to the State of California to cause developmental harm. This product contains: Ethanol.

Canadian Regulations:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian WHMIS Classification: Class D2B (Materials Causing Other Toxic Effects, Toxic Material)

This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

SECTION 16 – OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
 IARC: International Agency for Research on Cancer
 N/Ap: not applicable
 N/Av: not available
 NIOSH: National Institute of Occupational Safety and Health
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration

References

: Information obtained from sources including original supplier's Safety Data Sheet, and reference including RTECS and CCOHS Cheminfo.



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<http://http://www.rosco.com/>



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