

Safety Data Sheet

ISSUE DATE: 20/05/2015

GLASS & MIRROR CLEANER

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1. Identification

GHS Product identifier Glass & Mirror Cleaner
Company Name Blue Lion Supplies Pty. Ltd.
Address Fact. 9, 11 Havelock Road, BAYSWATER, VIC 3153
Telephone (03) 9720 1577
Fax Number (03) 9720 1799
Contact Jim Gillman
Recommended use of the chemical and restrictions on use Mirror and glass cleaner
Other Names None
Other Information Emergency contact: Mobile: 0412 646 246

2. Hazard Identification

Classified as hazardous according to the criteria of Worksafe Australia.

GHS classification of the substance/mixture Flammable liquids Category 3
Skin irritation Category 2
Eye irritation Category 2B
Signal Word (s) WARNING

Hazard Statement(s) H226 Flammable liquid and vapour
H315 + H320 Causes skin and eye irritation

Risk Phrases R10 Flammable.

Pictogram (s) GHS02, GHS07

Precautionary statement - Prevention P234 Keep only in original container.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.

Response P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P337 + P313 If eye irritation persists: Get medical attention.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Storage P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Disposal P403 + P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/ container to an approved waste disposal plant.



3. Composition/information on ingredients

Chemical Characterization Aqueous blend alcohol and glycol ether.

Hazardous ingredients

<u>Name</u>	<u>CAS no.</u>	<u>Proportion</u>	<u>Hazard symbol</u>	<u>Risk phrase</u>
Ethanol	64-17-5	MED	F	R10

KEY: Proportion, (wt %) - V HIGH >60, HIGH 30 - 60, MED 10 -29, LOW 1-9, V LOW <1

There are no other hazardous ingredients at concentrations that have to be declared.

Issued by Blue Lion Supplies Pty. Ltd.

ABN 65 099 391 572

Revision No. 1

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4. First-aid measures

Ingestion:	Rinse mouth with water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Skin:	Wash off with soap and plenty of water. Consult a physician.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically. Consult Poisons Information Centre
Other Information	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26 and New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Suitable extinguishing media	Use extinguishing media most appropriate for the surrounding fire such as water, foam or dry agent (carbon dioxide, dry chemical powder). If safe to do so, move undamaged containers from the fire area. If a significant quantity (>200L) of this product is involved in a fire, call the fire brigade.
Specific hazards arising from the chemical	There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. This product is likely to decompose only after heating to dryness, followed by further strong heating.
Precautions in connection with fire	Wear SCBA and chemical splash suit. Fully encapsulating, gas-tight suits should be worn for maximum protection.

6. Accidental release measures

Personal Precautions	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods- Small Spillages	Minor spills do not require special clean up measures or emergency procedures. Wear recommended personal protective equipment outlined in Section 8 when containing any spillage.
Large Spillages	Seek expert advice on handling and disposal.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains or waterways.

7. Handling and storage

Precautions for Safe Handling	Product is safe to handle under normal conditions of use.
Conditions for safe storage	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Incompatible products	None known
Incompatible materials	None known

8. Exposure controls/personal protection

Occupational exposure limit values

<u>Name</u>	<u>mg/m3</u>	<u>STEL</u>	<u>ppm</u>	<u>mg/m3</u>	<u>TWA</u>	<u>ppm</u>	<u>Footnote</u>
Ethanol				1880		1000	

Appropriate engineering controls In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

Personal Protective Final choice of personal protective equipment will depend on individual circumstances and/or according

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Equipment	to risk assessments undertaken.
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-face piece SCBA should be used. If respiratory protection is required; institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
Hand Protection	Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Nitrile rubber gloves.
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
Body Protection	Clean clothing or protective clothing should be worn, preferably with and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
Hygiene Measures	Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material. Maintain good housekeeping.

9. Physical and chemical properties

Appearance	Clear blue liquid
Odour	Characteristic alcohol
Melting Point	~0 °C
Boiling Point	Not determined
Flash point	Not determined
Vapour Pressure	Not determined
Solubility	Soluble in water in all proportions.
Specific Gravity	0.95 g/cm ³ @ 20 °C
pH	6.5 – 7.5 as supplied
Viscosity	~60 cPs @ 20 °C
Percent volatile	> 80 %
Flammability limits	Not determined

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of use.
Conditions to Avoid	No special conditions. Refer to storage conditions in Section 7.
Incompatible Materials	None known.
Hazardous Decomposition products	Carbon monoxide and carbon dioxide. May release flammable gases.
Possibility of hazardous reactions	Not determined.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute toxicity	Harmful if swallowed.
Ethanol	LD50 oral rat 10740 mg/kg (Rat; Experimental value) LD50 dermal rabbit > 16000 mg/kg (Rabbit)

Health effects from the likely routes of exposure:

Inhalation	Not expected under normal conditions of use. Vapours may cause respiratory irritation.
Skin	Not expected to cause irritation.

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Eye May cause slight irritation/discomfort.
Ingestion May result in irritation to the gastrointestinal tract.
Target Organs There is no data to hand indicating any particular health effects on target organs.

12. Ecological information

Ecotoxicity No data available.
Persistence and degradability No data available.
Toxicity to fish
Ethanol
LC50 fishes 1 14200 mg/l (96 h; Pimephales promelas; Nominal concentration)
EC50 Daphnia 1 9300 mg/l (48 h; Daphnia magna)
LC50 fish 2 13000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2 10800 mg/l (24 h; Daphnia magna)
Threshold limit other aquatic organisms 1 : 65 mg/l (72 h; Protozoa)
Threshold limit algae 1 : 1450 mg/l (192 h; Microcystis aeruginosa; Growth rate)
Threshold limit algae 2: 5000 mg/l (168 h; Scenedesmus quadricauda; Growth rate)

13. Disposal considerations

Disposal Considerations Avoid release of product to the environment. Product and containers not suitable for landfill. Containers should be emptied as completely as practical before disposal. If possible, recycle containers either in-house or send to recycling company. If this is not practical, send to a commercial waste disposal site. Check with Waste Disposal Authority before sending for recycling.

14. Transport information

U.N. Number 1993
UN proper shipping name Flammable Liquids, N.O.S
Transport hazard class(es) Class 3
Hazchem Code None allocated
Packing Group None allocated

15. Regulatory information

Regulatory Information Ingredients listed in the Australian Inventory of Chemical Substances (AICS).
Poisons Schedule None allocated.

16. Other Information

Date of preparation or last revision of SDS 20 May 2015

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.
IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS.