Section 1: Identification of the Material and Supplier

Product Name: ECOGLASS
Other Names: Dilute, aqueous solution.
Proper shipping name (ADG Code): None.
Recommended use: As a glass and window cleaner. Use as directed on the product label.
Supplier: Bracton Industries (NSW) Pty. Ltd.,
ACN: 003 060 160
50 Chard Road, BROOKVALE NSW 2100, Australia
Tel: +61 2 9938 1800 (business hours)
Fax: +61 2 9905 0979

Emergency Phone Numbers:
Transport/Fire Emergency: 000 (Emergency services)
Medical Emergency: 131126 (Poisons Information Centre)

Section 2: Hazards Identification

Not classified as hazardous according to criteria of Worksafe Australia. Non-dangerous goods.
Risk Phrases: None.
Safety Phrases: S: 23 Do not breathe vapour.
S: 24/25 Avoid contact with skin and eyes

Section 3: Composition/Information on Ingredients

Ingredients:

Propan-2-ol	[67-63-0]	< 10 %
Ethylene glycol monobutyl ether	[111-76-2]	< 10 %
Ammonium hydroxide	[1336-21-6]	< 10 %
Water	[7732-18-5]	to 100.00 %

Section 4: First Aid Measures

For advice, contact a Poisons Information Centre (Phone 131 126) or a doctor.

Swallowed: Do not induce vomiting.
Skin: Remove contaminated clothing and wash skin thoroughly.
Eyes: Hold eyes open, flood with water for at least 15 minutes and seek medical advice.
Inhaled: Remove from exposure.

First Aid facilities:
Recommended: Eye wash. Hand wash basin.

Advice to Doctor:
Product is a dilute aqueous solution containing low proportions of propan-2-ol and ethylene glycol monobutyl ether, and a very low proportion of ammonia. Contact Poisons Information Centre.

Aggravated medical conditions:
None found.

Section 5: Fire Fighting Measures

HAZCHEM Code: None assigned.
Evacuate: No.
Extinguishant: Water.
Risk of violent reaction or explosion: No.

Products of combustion: Water vapour, oxides of carbon, oxides of nitrogen.
Protective Equipment: Breathing apparatus and protective gloves for fire only.

Section 6: Accidental Release Measures

Emergency Procedures:
Contain. Prevent spillages from entering natural waters.

For large spills:
Contain spillage using sand or earth. Transfer liquid and solids to suitable container. Treat residues as for small spillage.

For small spills:
If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise, absorb on inert absorbent, transfer to suitable container and arrange removal by disposals company. Wash site of spillage thoroughly with water and detergent. Ventilate area to dispel any residual vapours.

Section 7: Handling and Storage

Precautions for safe handling:
Avoid contact with skin and eyes. Avoid breathing vapours or aerosols.

Conditions for safe storage:
Store in a cool, well ventilated place, out of reach of children. Large quantities should be stored in a bunded area. Store in original container. Keep container tightly closed and out of direct sunlight. Keep away from oxidising agents. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

Incompatibles:
Oxidising agents.

Section 8: Exposure Controls/Personal Protection

National Exposure Standards:

ES-TWA:	Propan-2-ol	400 ppm, 983 mg/m³
	Ethylene glycol monobutyl ether	25 ppm, 121 mg/m³
	Ammonia	25 ppm, 17 mg/m³
ES-STEL:	Propan-2-ol	500 ppm, 1,230 mg/m³
	Ammonia	35 ppm, 24 mg/m³
ES-PEAK:	None assigned.	
Notations:	Propan-2-ol:	
	Under review for sensory irritation.	
	Ethylene glycol monobutyl ether:	
	Skin. Under review for reproductive effects.	

[Skin] indicates that this material may be absorbed via unbroken skin, and any such contact may invalidate the TLV.

Biological Limit Values: No data found.
Engineering Controls:
Ensure adequate ventilation (same as outdoors) when using.If handling industrial quantities or if aerosol risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible, and at least below the TLVs.

Personal Protective Equipment:
Avoid contact with skin and eyes. Avoid breathing vapours or aerosols. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:-
Normal Use:
Eye/face protection, gloves: rubber or plastic.
Industrial Quantities:
Face shield or safety glasses, gloves: rubber or plastic, plastic apron, sleeves and boots impervious overalls.

Section 9: Physical and Chemical Properties

Appearance: Clear, colourless, mobile liquid.
Odour: Faint smell of ammonia.
pH: Slightly alkaline.
Vapour Pressure: No data.
Vapour Density: No data.
Boiling Point: About 100 °C
Melting Point: No data.
Volatiles: 100 % (mostly as water)
Volatile Organic Compounds (VOC): About 7 %
Evaporation Rate: No data.
Solubilities: Miscible with water in all proportions.
Specific Gravity/Density: About 1 g/mL @ 20 °C
Flash Point: None.
Flammable Limits: None.
Dust Explosion: Not applicable.
Auto-ignition Temperature: No data.

Other Information:
May react with strong oxidising agents.
Slippery when spilled.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Incompatible materials.
Incompatible Materials: Oxidising agents.
Hazardous Decomposition Products: Oxides of carbon, traces of oxides of nitrogen.
Hazardous Reactions: None known.

Section 11: Toxicological Information

Health Effects:
No data available for the mixture. Information presented relates to individual ingredients.

Acute: Swallowed: Likely to cause gastric upset, with possible nausea and vomiting. Very large doses may cause distorted perceptions and hallucinations, decreased pulse rate, lowered blood pressure, headache, dizziness,narcosis and anaesthesia.

Skin: May cause mild irritation. Will have a degreasing effect on the skin which may lead to further irritation. The organic components may be absorbed directly through the skin.

Eyes: Liquid and aerosols may be irritating to the eyes. Over-exposure may cause itching,redness and irritation.

Inhaled: Aerosols, or high vapour levels, may cause irritation to the upper respiratory system. Over-exposure to propan-2-ol may cause decreased pulse rate, lowering of blood pressure, headache, dizziness, distorted perceptions, nausea.

Chronic: Repeated skin contact may lead to irritation and dermatitic effects. Over-exposure to propan-2-ol may cause liver or kidney damage. Propan-2-ol is classified as a carcinogen, group 3; unclassifiable as to carcinogenicity to humans (animal inadequate evidence, human inadequate evidence). **(1)**

LD50:	Propan-2-ol	5,000 mg/kg oral, rat. 3,600 mg/kg oral, mouse.
LDLo:	Propan-2-ol	3,570 mg/kg oral, human.
TDLo:	Propan-2-ol	223 mg/kg oral, human - hallucinations, distorted perceptions, pulse rate decrease, fall in blood pressure.

Section 12: Ecological Information

Ecotoxicity: May be harmful to aquatic organisms.
Persistence and degradability: No data.
Mobility: Readily transported by water.
Environmental Fate: No data.
Bioaccumulative potential: No data.
Other adverse environmental effects: No data.

Section 13: Disposal Considerations

The generator of any wastes from this product is responsible for its proper classification, transport and disposal. Consult appropriate local and State regulations.

Disposal methods and containers: Avoid disposal to natural waters or the environment.

Special precautions for landfill or incineration: Not suitable for incineration. May not be suitable for some landfills.

Section 14: Transport Information

UN Number: None assigned.
UN Proper shipping name: None.
Class and subsidiary risk: None assigned.
Packaging group: None.
Special precautions for user: None.
HAZCHEM Code: None assigned.
Material for export: Not restricted.

Section 15: Regulatory Information

Poisons (SUSDP): Not a scheduled poison.
Dangerous Goods: Not dangerous goods.

Carcinogen:	Australia	IARC	NTP
Propan-2-ol	No.	Yes.	No.
Ethylene glycol monobutyl ether	No.	No.	Yes.

Agricultural and Veterinary Chemicals Act: Not applicable.
Australian Inventory of Chemical Substances (AICS): Listed.
Other National/International Regulations: No data.

Section 16: Other information

Date of MSDS preparation/update: June 2005

Disclaimer
The information herein is to the best of our knowledge, correct and complete. It describes the safety requirements for this product and should not be construed as guaranteeing specific properties.
Since methods and conditions are beyond our control we do not accept liability for any damages resulting from the use of, or reliance on, this information in inappropriate contexts.