



# SAFETY DATA SHEET

## GLISTEN WINDOW CLEANER

Date of Issue: NOV 2021

Version: #3.0

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### SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name:	<b>GLISTEN WINDOW CLEANER</b>		
SUPPLIER:	ECOCLEAN UTILITY AGENCIES PTY LTD		
ADDRESS:	PO Box 6224 YATALA DC 4207		
TELEPHONE:	(07) 5549 3622	FAX:	(07) 5549 3666
EMERGENCY PHONE:	13 1126 in Australia.	ABN:	72 135 037 160
Substance:	water based liquid	Product Use:	Window cleaner/sanitiser.
Creation Date:	November 2021	Revision Date:	November 2026

### SECTION 2 – HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Poisons Schedule	Not scheduled
Dangerous Goods	Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail". FLAMMABLE CLASS 3.3
GHS Classification	Based on available information, this material is classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS7) including Work, Health and Safety regulations, Australia. <ul style="list-style-type: none"> <li>• Eye Irritation Category 2A</li> <li>• Flammable Liquids Category 3</li> <li>• Specific Target Organ Toxicity – Single Exposure 3</li> </ul>

#### Label elements

GHS label pictograms	
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Signal word **WARNING**

#### Hazard statement(s)

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

#### Precautionary statement(s): General

P102	Keep out of reach of children.
P103	Read label before use.

#### Precautionary statement(s): Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources — No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P264	Wash hands and skin thoroughly after handling.



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<b>P261</b>	Avoid breathing mist/ vapours/spray.
<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>Precautionary statement(s): Response</b>	
<b>P303+P361+P353</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
<b>P304 + P340</b>	IF INHALED: remove person to fresh air and keep comfortable for breathing.
<b>P312</b>	Call a POISON CENTER/doctor/...if you feel unwell.
<b>P305 + P351 + P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P337 + P313</b>	If eye irritation persists: Get medical advice/attention.
<b>P370+P378</b>	In case of fire: Use water spray, alcohol resistant foam, dry chemicals or carbon dioxide to extinguish.
<b>Precautionary statement(s): Storage</b>	
<b>P403 + P235</b>	Store in a well-ventilated place. Keep cool.
<b>P233</b>	Keep container tightly closed.
<b>P405</b>	Store locked up.
<b>Precautionary statement(s): Disposal</b>	
<b>P501</b>	Dispose of contents/ container in accordance with local regulations.
<b>Note</b>	
<b>IMPORTANT</b>	This SDS and the Hazard Classifications contained therein, only apply to the product in its concentrated form, as supplied. When diluted to 1:5 or greater they no longer apply. However, good hygiene and housekeeping practices should be adhered to.

### SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Proportion:
isopropyl alcohol	67-63-0	10 - 30% w/w
Ethylene glycol monobutyl ether	111-76-2	< 10% w/w
Ingredients determined to be non-hazardous at concentrations present.	various	To 100 % w/w

NOTE: Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication "List of Designated Hazardous Substances" or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication "Approved Criteria for Classifying Hazardous Substances", or have been found NOT to meet the criteria of a dangerous substance as defined in the GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS). Listed ingredients may be below the cut-off concentrations for classification as hazardous, but are listed for information purposes and for additive effects.

### SECTION 4 – FIRST AID MEASURES

<b>Inhalation</b>	Remove victim to fresh air away from exposure. Obtain medical attention if symptoms occur.
<b>Skin contact</b>	Immediately wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. Seek medical advice (e.g. doctor) if irritation, burning or redness persists.
<b>Eye contact</b>	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If symptoms persist, seek medical attention.
<b>Ingestion</b>	Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person. Rinse mouth thoroughly with water immediately. Give water to drink. If vomiting occurs, give further water to achieve effective dilution. Seek medical advice (e.g. doctor).
<b>Advice to Doctor</b>	Treat symptomatically.
<b>Scheduled Poisons</b>	Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand



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	can provide additional assistance for scheduled poisons. (Phone Australia 131126 or New Zealand 0800 764 766).
<b>First Aid Facilities</b>	Eye wash station. Normal washroom facilities.

### SECTION 5 – FIRE FIGHTING MEASURES

<b>Fire and Explosion Hazards</b>	Water/alcohol based. In use, may form flammable/explosive vapour/air mixture. If involved in a fire will emit toxic fumes.
<b>Extinguishing Media</b>	Use extinguishing media appropriate to surrounding fire conditions. Use carbon dioxide (CO2) fire extinguisher, water fog or alcohol resistant foam or fine water spray.
<b>Fire Fighting</b>	Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion or decomposition.
<b>Flash Point</b>	Flash point ca 29°C

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures</b>	<p>HAZCHEM code: ●3Y</p> <p>●3 = use ALCOHOL RESISTANT FOAM to fight fires. Y = Yes – risk of violent reaction, recommend full fire kit and breathing apparatus for fire only, CONTAIN.</p> <ul style="list-style-type: none"> <li>• Shut off engine and electrical equipment off.</li> <li>• No smoking or naked lights within 50 metres.</li> <li>• Move people from immediate area; keep upwind.</li> <li>• Send messenger to notify fire brigade and police.</li> <li>• Tell them location, material quantity, UN number and emergency contact. Indicate condition of vehicle and damage or injuries observed.</li> <li>• Warn other traffic.</li> </ul> <p><b>Occupational Release</b></p> <p>Minor spills do not normally need any special clean-up measures. In the event of a major spill, prevent spillage from entering drains or water-courses. For large spills, or tank rupture, consider initial evacuation distance of 200 metres in all directions. Stop leak if safe to do so. If available, use water spray to disperse vapour. Wear appropriate protective equipment as in section 8 below to prevent skin and eye contamination. Spilt material may result in a slip hazard and should be absorbed into dry, inert material (e.g. sand, earth or vermiculite), which then can be put into appropriately labelled drums for disposal by an approved agent according to local conditions. Residual deposits will remain slippery. Wash area down with excess water. If contamination of sewers or waterways has occurred advise the local emergency services. In the event of a large spillage notify the local environment protection authority or emergency services.</p>
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### SECTION 7 – HANDLING AND STORAGE

<b>Handling</b>	Avoid skin or eye contact with concentrate. Wear protective clothing when risk of exposure occurs. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered. Launder contaminated clothing before re-use.
<b>Storage</b>	Store in a cool, dry, well-ventilated area, out of direct sunlight. Protect from freezing. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials and ignition sources. Ensure that storage conditions comply with applicable local and national regulations.



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### SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>Exposure Limits</b>	<p>National Occupational Exposure Limits, as published by National Occupational Health &amp; Safety Commission:</p> <p><b>Time-weighted Average (TWA):</b> None established for product.</p> <ul style="list-style-type: none"> <li>Isopropyl alcohol: 400 ppm (983 mg/m<sup>3</sup>)</li> <li>Ethylene glycol monobutyl ether: 20ppm (96.9 mg/m<sup>3</sup>)</li> </ul> <p><b>Short Term Exposure Limit (STEL):</b> None established for product.</p> <ul style="list-style-type: none"> <li>Isopropyl alcohol: 500 ppm (1230 mg/m<sup>3</sup>)</li> <li>Ethylene glycol monobutyl ether: 50 ppm (242 mg/m<sup>3</sup>)</li> </ul>
<b>Ventilation</b>	<p>Ensure ventilation is adequate to maintain air concentrations below exposure standards. Avoid generating mists of the product. Use only in a well-ventilated area. Ensure airflow, where this product is used, is directed away from the operators.</p>
<b>Personal Protective Equipment</b>	<p>Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. The following protective equipment should be available;</p>
<b>Eye Protection</b> 	<p>Generally not required for typical applications with diluted solutions as per label directions. Safety glasses with full face shield should be used for handling concentrate in quantity, cleaning up spills, decanting, etc. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.</p>
<b>Hand Protection</b> 	<p>Generally not required for typical applications with diluted solutions as per label directions. Wear gloves of impervious material such as butyl rubber, natural latex, neoprene, PVC and nitrile – to handle in quantity, clean up spills, decanting, etc. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.</p>
<b>Body Protection</b> 	<p>Suitable protective workwear, e.g. rubber or plastic apron, sleeves, boots and cotton overalls buttoned at neck and wrist are recommended. Chemical resistant apron is recommended where large quantities are handled.</p>
<b>Respirator</b>	<p>Generally not required for typical applications with diluted solutions as per label directions. If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.</p>

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Non-viscous liquid	<b>Colour</b>	Blue
<b>Odour</b>	characteristic odour	<b>Specific Gravity</b>	0.96 – 0.98 @ 25 °C
<b>Boiling Point</b>	Approximately 100 °C	<b>Freezing Point</b>	Approximately 0 °C
<b>Vapour Pressure</b>	Not available	<b>Vapour Density</b>	Not available
<b>Flash Point</b>	Approximately 29 °C	<b>Flammable Limits</b>	Not available
<b>Water Solubility</b>	Miscible in all proportions	<b>pH</b>	4.0 – 6.0 neat
<b>Volatile Organic</b>	Ca 20 % v/v	<b>Per Cent Volatile</b>	Ca 98 % v/v



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Compounds (VOC)			
Viscosity	Not available	Odour Threshold	Not available

### SECTION 10 – STABILITY AND REACTIVITY

Reactivity	Stable at normal temperatures and pressure.
Conditions to Avoid	Extremes of temperature and direct sunlight.
Incompatibilities	Reducing agents, oxidizing agents.
Hazardous Decomposition	Thermal decomposition (burning) may result in the release of toxic and/or irritating fumes.

### SECTION 11 – TOXICOLOGICAL INFORMATION

#### POTENTIAL HEALTH EFFECTS

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Inhalation	Breathing of high vapour concentrations (isopropyl alcohol) may cause central nervous system depression resulting in headaches, dizziness, nausea, loss of coordination, impaired judgement; continued inhalation may result in unconsciousness and/or death.
Skin contact	Not expected to be irritating to skin.
Eye contact	Concentrated product causes eye irritation. Eye contact with concentrate will cause stinging, blurring, tearing.
Ingestion	May include nausea, vomiting and central nervous system depression (as for inhalation).
Chronic exposure	No known effects.
Toxicology Information	Not toxic, based on ingredients. Oral LD50 (ATE calculated) : >10,000 mg/Kg (body weight)
Carcinogen Status	
NOHSC	No significant ingredient is classified as carcinogenic by NOHSC.
NTP	No significant ingredient is classified as carcinogenic by NTP.
IARC	No significant ingredient is classified as carcinogenic by IARC.
Respiratory sensitisation	Not expected to be a respiratory sensitizer.
Skin Sensitisation	Not expected to be a skin sensitizer.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Reproductive Toxicity	Not considered to be toxic to reproduction.
STOT-single exposure	H336 - May cause drowsiness or dizziness
STOT-repeated exposure	Not expected to cause toxicity to a specific target organ.
Aspiration Hazard	Not expected to be an aspiration hazard.

### SECTION 12 – ECOLOGICAL INFORMATION

Acute Aquatic Toxicity Product (as sold)	Not harmful to aquatic life. LC50 > 100mg/L. Acute Aquatic Toxicity (Calculated) LC50: 2000 - 9000 mg/L. Acute Aquatic Toxicity NOT HAZARDOUS
Acute Aquatic Toxicity Product (at use dilution 1:100 rinse)	Not harmful to aquatic life. LC50 > 100mg/L. Acute Aquatic Toxicity (Calculated) LC50: 20,0000 – 90,000 mg/L. Acute Aquatic Toxicity NOT HAZARDOUS
Persistence and degradability	Readily biodegradable, based on ingredients.
Bio accumulative potential	No bioaccumulation is expected.
Mobility in soil	Due to its physico-chemical characteristics, highly mobile in the environment and will partition to the aquatic compartment.



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Other adverse effects	Not available
Environmental Protection	Do not discharge this material into waterways.

### SECTION 13 – DISPOSAL CONSIDERATIONS

	Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.
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### SECTION 14 – TRANSPORT INFORMATION

Labels Required	
ADG	Classified as Dangerous Goods class 3 
IMDG Marine Pollutant	No
HAZCHEM	●3Y
Land Transport (ADG)	
UN Number	1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL)
ADG Code	3
HAZCHEM Code	●3Y
Special Provisions	None allocated.
Packing Group	III
Packaging Method	3.8.3 RT1
Segregation	Segregation Class 3 – Flammable liquid shall not be loaded in the same vehicle or packed in the same freight container with: Class 1, Explosives Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk Class 2.3, Toxic Gases Class 4.2 Spontaneously Combustible Substances Class 5.1 Oxidising Agents and Class 5.2, Organic Peroxides Class 6 Toxic Substances (where the flammable liquid is nitromethane) Class 7 Radioactive Substances. Foodstuff and foodstuff empties.

### SECTION 15 – REGULATORY INFORMATION

GHS Classification	Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
SUSMP	Not scheduled
Montreal Protocol: (Ozone depleting substances).	Not applicable.
The Stockholm Convention: (Persistent Organic Pollutants).	Not applicable.
The Rotterdam Convention: (Prior Informed Consent)	Not applicable.



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<b>Basel Convention: (Hazardous Waste)</b>	Not applicable.
<b>INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS (MARPOL):</b>	Not applicable.
<b>ADG Code</b>	DG class 3
<b>AICS</b>	All ingredients present on AICS.

### SECTION 16 – OTHER INFORMATION

<b>Issue Date</b>	2 <sup>nd</sup> November 2021
<b>Version Number</b>	V 3.0 GHS7 revision.
<b>Prepared by:</b>	This Safety Data Sheet has been prepared by Tuwai Specialties on behalf of its client. <a href="mailto:tuwai.wt@bigpond.com">tuwai.wt@bigpond.com</a>
<b>Abbreviations and acronyms</b>	<p><b>ADG Code:</b> Australian Code for the Transport of Dangerous Goods by Road and Rail.</p> <p><b>AICS:</b> Australian Inventory of Chemical Substances.</p> <p><b>CAS Number:</b> Chemical Abstracts Service Registry Number.</p> <p><b>GHS:</b> Globally Harmonized System of Classification and Labelling of Chemicals</p> <p><b>HAZCHEM:</b> An emergency action code of numbers and letters which gives information to emergency services.</p> <p><b>HSIS:</b> Hazardous Substances Information System</p> <p><b>IARC:</b> International Agency for Research on Cancer.</p> <p><b>NOHSC:</b> National Occupational Health and Safety Commission.</p> <p><b>NTP:</b> National Toxicology Program (USA).</p> <p><b>SDS:</b> Safety Data Sheet</p> <p><b>STEL:</b> Short Term Exposure Limit.</p> <p><b>SUSMP:</b> Standard for the Uniform Scheduling of Medicines and Poisons.</p> <p><b>TWA:</b> Time Weighted Average.</p> <p><b>UN Number:</b> United Nations Number.</p>
<b>Literature references</b>	<p>Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice ( Safe Work Australia)</p> <p>GHS Hazardous Chemical Information List (Safe Work Australia)</p> <p>Guidance on the Classification of Hazardous Chemicals under the WHS Regulations.</p> <p>Global Harmonized System of Classification and Labelling of Chemicals (GHS)</p> <p>“Australian Exposure Standards”. Safework Australia</p> <p>Australian Code For The Transport Of Dangerous Goods By Road And Rail</p> <p>Standard for the Uniform Scheduling of Medicines and Poisons</p> <p>Material Safety Data Sheets – individual raw materials – Suppliers</p> <p>HCIS Database - Safework Australia</p> <p>ECHA – European Chemicals Agency</p>
<b>Disclaimer</b>	This MSDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier.

End of SDS