

SAFETY DATA SHEET

De-Icer

Date of issue: 17 November 2022
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1. Identification of the Substance and Supplier.

Product name: De-Icer

Product Use: Removal of ice from windshields and windows

Company Details: H.O. Wiles Limited
P.O. Box 13-2215
Auckland 1644
New Zealand
Bar's Leaks Australia LP
P.O. Box 2623
Taren Point NSW 2229
Australia

E-mail Address: admin@howiles.co.nz

Telephone numbers: +64 9 270 2032 +61 417 449 962

Emergency Telephone: National Poisons Centre New Zealand Phone: 0800 POISON
(0800 764-766)
Poisons Information Centre Australia: 13 11 26

2. Hazards identification.



Classified as a hazardous substance according to the criteria in the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

This material is hazardous according to the health criteria of Safe Work Australia.

Classified as dangerous goods by the criteria of the Australian Code for the transport of Dangerous Goods (ADG) and in New Zealand, according to NZS 5433:2020 Transport of Dangerous Goods on Land.

GHS Categories: Flammable Liquids – Category 2
Eye Irritation – Category 2
Specific Target Organ Toxicity – Repeated Exposure Category 2

Signal Word: DANGER

Hazard Statements:

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H373 May cause damage to renal and cardiovascular system through prolonged or repeated exposure.

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Prevention Statements:

P210	Keep away from sparks and open flames. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion proof electrical and lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe vapours.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves and eye/face protection.

Response Statements:

P303+P361+P353	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire use carbon dioxide, dry chemical, foam or water fog

Storage Statements:

P403+P235	Store in a well-ventilated place. Keep cool.
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Disposal Statements:

P501	Disposal of contents/container should be made in accordance with applicable regional, national, and local laws and regulations.
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3. Composition/Information on Ingredients

Ingredient	CAS Number	Content (% w/w)
Denatured Ethanol	64-17-5	30 – 60%
Ethylene Glycol	107-21-1	<10%
Non-hazardous materials	-	Balance

4. First aid measures

General Advice:	Treat according to person's condition and specifics of exposure. Treat symptomatically. For further information, the medical practitioner should refer to the phone numbers in Section 1.
Inhalation:	Move to fresh air. Obtain medical attention. If not breathing give artificial respiration.
Ingestion:	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting, immediately contact the NZ National Poison Centre (0800 764 766) or a doctor.
Skin Contact:	Wash skin well with soap and water.

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Eye Contact: Immediately flush with water for 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing if irritation persists seek medical advice/attention.

5. Fire-fighting measures

Extinguishing media In case of fire, use carbon dioxide, dry chemical, foam or water fog.
Hazardous combustion products Carbon monoxide may be evolved if incomplete combustion occurs.
Precautions for Firefighters The major hazard in fires is inhalation of heated and toxic or oxygen deficient (or both), fire gases. Use adequate respiratory equipment in case of insufficient ventilation. Will float on water and can be reignited. May be violently or explosively reactive. Avoid spraying water onto liquid pools.

6. Accidental release measures

Spills and Disposal In the event of a major spill, prevent spillage from entering drains or watercourses. Stop leak if safe to do so and contain spill. Absorb spillage with dry sand, or vermiculate. Sweep up and shovel into labelled containers for recycling or salvage and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters sewers or waterways, advise emergency services and relevant authorities immediately. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Personal Protection Wear full protective chemically resistant clothing including eye/face protection, gauntlets. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, Nitrile, butyl rubber, neoprene. Eye/face protective equipment should comprise as a minimum, protective goggles.

Environmental precautions Prevent spilled material from entering drains/surface waters/groundwater. If contamination has occurred, advise local emergency services.

7. Handling and storage

Precautions for safe handling Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under 'Storage' should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10. Ground/bond container and receiving equipment. Use explosion proof electrical/ventilation/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Electrostatic discharge may cause fire.

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Conditions for safe storage Make sure that containers of this product are kept tightly closed. Keep containers dry and in a frost-free well-ventilated place (25°C). Make sure that the product does not come into contact with substances listed under 'Incompatibilities' in Section 10. Check packaging - there may be further storage instructions on the label.

8. Exposure controls/personal protection

Workplace exposure standards

	TWA (mg/m³)	STEL (mg/m³)
Denatured Ethanol	1880	-
Ethylene Glycol	127 (ceiling)	-

Appropriate engineering controls

Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals. Do not eat, drink or smoke while handling chemical. Ensure all electrical equipment is grounded/bonded to prevent static discharge. Consider monitoring oxygen levels around operators to reduce risk of suffocation.

Personal protective equipment

Eye/Face – Protective glasses or goggles that comply with AS/NZS 1336:1997.
Skin – Protective gloves that comply with AS/NZS 2121.2:1998.
Feet – Rubber soled gumboots

9. Physical and chemical properties

Appearance	Clear liquid.
Colour	Colourless.
Odour	Sweet ethanolic
pH @ 20°C	6.9 – 7.1
Specific Gravity	0.93g/mL @20°C
Viscosity @ 20°C	No data available
Freezing Point	No data available
Boiling Point	50°C
Flash Point	20°C
Flammability	No data available
Explosive Limits	No data available
Vapour Pressure	No data available
Vapour Density	No data available
Solubility	Complete
Partition Coefficient	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available

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10. Stability and reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Incompatible materials	Oxidising agents, acids, acid chlorides and acid anhydrides.
Hazardous decomposition product	Combustion forms carbon dioxide and if incomplete carbon monoxide and possibly smoke. Water is also formed. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment and unconsciousness followed by coma and death.
Hazardous polymerisation	This product will not undergo polymerisation reactions.

11. Toxicological information

Acute Toxicity	This product not classified for toxicity based on summation rules.
Skin	This product is not classified based on summation rules.
Corrosion/Irritation	
Serious Eye Damage	Irritation of the eye is expected along with inflammation and pain. Classification based on summation rules.
Respiratory or Skin Sensitisation	No information available.
Germ Cell Mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive Toxicity	No information available.
STOT – Single Exp.	Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. Classification based on summation rules.
STOT – Repeat. Exp.	Repeated exposure may cause damage to the kidneys and cardiovascular system. Classification based on summation rules.
Aspiration Hazard	No information available.

12. Ecological information

Ecotoxicity	No ecological toxicity data is available. No classification has been made due to insufficient data available on the composition.
Persistence and degradability	No data available.
Bioaccumulation	No data available.
Mobility	No data available.

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13. Disposal considerations

Disposal Considerations	Dispose of waste according to local body waste regulations. Containers may be recycled for use with similar products.
Suggested Precautions	This product cannot be recycled, consider controlled incineration, or contact a specialist waste disposal company.

14. Transport information

Classified as a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land & Dangerous Goods Rule 2005. Regulated for transport of Dangerous Goods: ADG, UN, IATA, IMDG. Meets the definition of a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

UN Number:	1993
Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains ethylene glycol)
Class:	3
Packing group:	III
Hazchem code:	●3Y
EmS Codes	F-E, S-E
Marine Pollutant:	No

15. Regulatory information

Classified as a hazardous substance according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001: HSR002553, Denatured Ethanol Group Standard 2020.

All components of this material are listed on, or exempt from, the New Zealand Inventory of Chemicals (NZIOC) and the Australian Inventory of Chemical Substances (AICS).

HSNO Controls – Trigger quantities for this substance

	Trigger Quantity
Certified Handler	Not required
Location Certificate	Closed containers: 100L (in containers more than 5L in size) or 250L (in containers 5L or less) Open containers: 50L
Tracking Trigger Quantities	Not applicable
Signage Trigger Quantities	250L
Emergency Response Plan Trigger Quantities	1000L

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16. Other information

SDS Version Number: 1.1

SDS Effective Date: 17 November 2022

SDS Review Date: 17 November 2022

SDS Regulation: The content and format of this SDS is in accordance with HSNO Approved Code of Practice (No. HSNO COP 8-1 09-06): Preparation of Safety Data Sheets.

AS	Australian Standard
AS/NZS	Joint Australian/New Zealand Standard
EEL	Environmental Exposure Limit
HSNO	Hazardous Substances and New Organisms Act 1996
NZS	New Zealand Standard
TEL	Tolerable Exposure Limit
WES	Workplace Exposure Standard

This SDS is the first version for De-Icer. It summarises our best knowledge of the health and safety hazard information of the product. All users should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. Since the actual use of this product is beyond the control of H. O. Wiles Ltd, we make no warranty, expressed or implied, concerning the use of this product. It is the responsibility of users to ascertain that the product is suitable for intended applications.
