

## MATERIAL SAFETY DATA SHEET

This substance is classified as **Hazardous** according to the criteria of Worksafe Australia

### ECO FREEZE ULTRA ECO – AOC6000

#### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

Product Name	ECO FREEZE ULTRA ECO CONCENTRATE COOLANT
Product Code	AOC6000
Product Use	Radiator Coolant
Company Name	Australian Organic Coolants
Address	PO Box 768, Bungalaw, Queensland, 4870 AUSTRALIA
Telephone	61 7 4051 2400
Fax	61 7 4031 5490
Other Names	
Other Information	

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Information on Composition	CAS number	Proportion
Glycerine	56-81-5	> 60%
Non-hazardous ingredients		To 100%

#### 3. HAZARDS IDENTIFICATION

**Most important hazards** Reacts violently with strong oxidants

#### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Remove contact lenses, if any, rinse eyes with water until irritation subsides. Seek immediate medical attention.
<b>Skin Contact</b>	Remove patient to uncontaminated area. Remove contaminated clothing and rinse skin with cold water.
<b>Ingestion</b>	Induce vomiting if large amounts ingested.
<b>Inhalation</b>	No adverse effects expected.
<b>Advice to Doctor</b>	Use supportive care.

#### 5. FIRE FIGHTING MEASURES

<b>Extinguishing Media</b>	Water, fog, alcohol resistant foam, carbon dioxide, dry chemical.
<b>Specific Hazard</b>	Avoid from strong oxidizing agents.
<b>Fire Fighting Instruction</b>	Wear a positive pressure self contained breathing apparatus. Caution – acrolein may be released by combustion.

#### 6. ACCIDENTAL RELEASE MEASURES

**Spills and Disposal** For small spillage, cover with absorbent material, soak up and sweep into a drum. For large spillage, dike around the spill and pump into suitable containers.

#### 7. HANDLING AND STORAGE

<b>Storage &amp; Transport</b>	Store in a cool dry area. For quality preservation avoid high temperatures and ultraviolet light. Store away from strong oxidizing agents. Not defined as a Dangerous Good by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
<b>Handling</b>	Not hazardous material according to RID/ADR, GGVS/GGVE, ADNR, IMDG, ICAO-TI/IATA-DGR. Avoid contact with eyes and skin.



**8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

<b>Exposure Limits</b>	None known
<b>Personal Protection</b>	Irritating to the eyes. Good industrial hygiene should be followed. Normal precautions should be observed as for handling all chemicals.
<b>Engineering Controls</b>	No special engineering requirements

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Florissant Green, syrupy liquid
<b>Odour</b>	Odourless
<b>Boiling Point (°C)</b>	290
<b>Melting Point (°C)</b>	18
<b>Solubility in Water</b>	Soluble in water
<b>Specific Gravity</b>	1.260 – 1.265 at 25 °C
<b>Vapour Pressure (mm of Hg at 20°C)</b>	0.0023
<b>Flashpoint</b>	160 °C
<b>Auto Ignition Temperature</b>	392 °C
<b>Flammability Limit</b>	Not known
<b>Percentage Volatiles</b>	Not more than 0.5%
<b>Evaporation Rate</b>	Less than 1 (Ether = 1)
<b>Vapour Density</b>	3.1 (Air = 1)
<b>Molar Mass</b>	92.11
<b>Chemical Family</b>	Polyhydric alcohol

**10. STABILITY AND REACTIVITY**

<b>Conditions to Avoid</b>	Avoid direct fire, strong oxidants/alkalis.
<b>Incompatibles</b>	Strong oxidants.
<b>Decomposition Products</b>	Carbon, carbon dioxide and carbon monoxide.

**11. TOXICOLOGICAL INFORMATION**

<b>Toxicity Data</b>	LD <sub>50</sub> (oral, rat) = 12600mg/kg LD <sub>50</sub> (rat) > 570mm <sup>3</sup> /1H
<b>Carcinogenicity</b>	None
<b>Reproductive Effect</b>	No harmful effects expected
<b>Effect of Overexposure</b>	No harmful effects expected
<b>Chronic Effects</b>	Eyes, slight irritation
<b>Target Organs</b>	Ingestion – high doses – CNS effects, increase sugar and fat levels
<b>Medical conditions generally aggravated by exposure</b>	Eyes

**12. ECOLOGICAL INFORMATION**

<b>Mobility</b>	Not known
<b>Bioaccumulation</b>	Not known
<b>Biodegradability</b>	Biodegradable
<b>Aquatic Toxicity</b>	LC50 > 5000mg/l

**13. DISPOSAL CONSIDERATIONS**

For disposal information refer to the State Land Waste Management Authority or the Environmental Protection Authority

**14. TRANSPORT INFORMATION**

Not a hazardous material according to RID/ADR, GGVS/GGVE, ADN, IMGD, ICAO-TI/ATA-DGR	
<b>UN Number</b>	None allocated
<b>Proper Shipping Name</b>	None allocated
<b>DG Class</b>	Glycerine
<b>Hazchem Code</b>	None allocated
<b>Packaging Group</b>	None allocated



**15. REGULATORY INFORMATION**

Glycerine 99.5% is categorized under non-hazardous chemicals

**16. OTHER INFORMATION**

Product has no known intrinsic harmful or hazardous properties when used for purpose intended.

**Contact Point**

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**END OF MSDS**

