

Section 1. IDENTIFICATION

COOLANT

Description /Use: Anti-freeze, anti-boil, anti-corrosion protection

Product Code: 2-820

Business name: Made by Zexa

Address: 28 Strathmore Road Caves Beach, NSW 2281 Australia

Phone: +61 2 4970 7777

Fax: +61 2 9475 4880

Email: sales@zexa.com.au

Website: www.zexa.com.au

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Use only according to directions on product spec sheet and label.

Poisons Information Centre: Australia 13 11 26 NZ: 0800 764 766

Section 2. HAZARDS IDENTIFICATION

Statement of Hazardous Nature

This material is classified as hazardous according to health criteria of Safe Work Australia (SWA).

Aspiration Hazard – Category 1

GHS Classifications

Signal Word: **WARNING**

Hazard Classifications

Specific Target Organ Toxicity (Repeated Exposure) – Category 2

Acute Toxicity Oral / Inhalation – Category 4



HAZARD STATEMENT:

H302: Harmful if swallowed

H373: May cause damage to organs through prolonged or repeated exposure

H335: May cause respiratory irritation.

PRECAUTIONARY STATEMENT:

Do not breathe mists or vapour. Wash hands thoroughly after handling. Wear protective gloves, protective clothing and eye/face protection.

Prevention:

P102 Keep out of reach of children.

P103 Read label before use.

P234: Keep only in original container.

P260 Do not breathe mist, vapours or spray.

P262: Do not get in eyes, on skin, or on clothing.

P264 Wash hands and face thoroughly after handling.

P270: Do not eat, drink or smoke when using this product

P280 Wear protective workwear / apron, gloves and eye/face protection

Response:

P101 If medical advice is needed, have product container or label at hand.

P363: Wash contaminated clothing before reuse.

P301+P310+P330+P331: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical advice.

P337+P313: If eye irritation persists: Get medical advice.

P390: Absorb spillage to prevent material damage.

P391: Collect spillage.

P370+P378: Not combustible. Use extinguishing media suited to burning materials. Water fog or fine spray is the preferred medium for large fires.

STORAGE

P406: Store in corrosive resistant container with a resistant inner liner.

P402+P404: Store in a dry place. Store in a closed container.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up

DISPOSAL

P501: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. If they cannot be recycled, dispose of contents to an approved waste disposal plant and containers to landfill (see Section 13 of this SDS).

Section 3. COMPOSITION INFORMATION

Chemical Name	CAS Number	Percentage (%)
Ethylene glycol	107-21-1	40 - 70
Sodium benzoate	532-32-1	1 - 4
All other ingredients Non-Hazardous	Not applicable	to 100

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non- hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4. FIRST AID

Inhalation: Move victim to fresh air. If symptoms develop, seek medical advice.

Swallowed: Flush mouth with water. DO NOT induce vomiting. Get immediate medical attention. For advice, call the POISONS INFORMATION CENTRE

Eye Contact: Immediately rinse with plenty of water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Continue rinsing. For advice, call the POISONS INFORMATION CENTRE

Skin Contact: Wash skin with plenty of water. Remove contaminated clothing and wash before reuse.

Medical attention and special treatment: No Specific treatment. Treat symptomatically.

Section 5. FIRE FIGHTING MEASURES

This product is not flammable under the conditions of storage and use and does not support combustion.

Extinguishing Media: Use the extinguisher appropriate to the principal fire hazard or to the source of the fire.

Specific Hazards: Combustible liquid

Hazardous Combustion Products: If this product is involved in a fire, the water contained in it may evaporate, leaving a residue which may combust. During combustion, the residue may produce carbon monoxide as well as other unidentifiable organic compounds.

Protective Equipment: Fire fighters are to wear protective equipment appropriate to the principal fire hazard or the source of the fire. No special protective equipment required if this product is involved in a fire.

Flash Point: This product will not flash and does not support combustion.

Flammability: This product is not flammable under the conditions of use and does not support combustion

Section 6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal

Note: spillages are slippery. Wear appropriate protective equipment. Cordon off the spillage area. Isolate the source of the spillage or leak. Contain the spillage using a suitable non-flammable absorbent material such as sand or diatomaceous earth and then transfer into sealed plastic containers for disposal.

Section 7. HANDLING AND STORAGE

Handling:

Observe good personal hygiene practices and recommended procedures. Wash hands thoroughly after handling. Avoid eye contact, skin and clothing contact. Avoid inhalation of vapour, mist or aerosols.

Storage:

Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs, strong acids and moisture. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks. Store locked up.

Section 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standards: An occupational exposure standard (OEL) has not been established for the product.

Coolant SAFETY DATA SHEET

The following components have been listed with an OEL as per Safe Work Australia – Workplace Exposure Standards for Airborne Contaminants.

	TWA ppm mg/m3	STEL ppm mg/m3	NOTICES
Ethylene glycol (particulate) -	- 10	- -	Sk
Ethylene glycol (vapour)	20 52	40 104	Sk

As published by Safe Work Australia.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. be exceeded at any time during a normal eight-hour workday.

'Sk' Notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

Individual Protection Measures

Not required under normal conditions of use. The following Australian Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: AS/NZ 1715; Protective gloves: AS2161; Occupational Protective Clothing: AS/NZS 4501 2008; Industrial Eye Protection: AS 1336 and AS/NZS 1337; Occupational Protective Footwear: AS/NZS 2210.

No special equipment is usually needed when handling small quantities. The following are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Eye and face protection: safety glasses or chemical resistant goggles should be worn to prevent eye contact. It is also recommended to provide eyebath or eyewash facilities in an area close to where the product is being used.

Skin protection: Information at hand indicates that this product is not harmful and normally no special skin protection is necessary. However, we suggest that you routinely avoid skin contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.

Respiratory protection: Not normally needed. If significant vapours or mists are generated, use an appropriate respirator in accordance with AS/NZS 1715.

Engineering Controls

This product should only be used in a well-ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid	Colour:	Green
Flashpoint (°C):	130°C Method: ASTM D92	Boiling Point (°C):	>100°C
Flammability Limits (%):	Not flammable	Vapour Pressure:	Not available
Water Solubility:	Complete	Specific Gravity:	1.12kg/m3
pH:	Not available	Odour:	

Section 10. STABILITY AND REACTIVITY

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, you have any doubts, contact the supplier for advice on shelf life properties.

Stability: Considered stable. For extended storage life, store below 30°C and keep out of direct sunlight.

Hazardous Polymerization: Oxides of carbon and nitrogen, smoke and other toxic fumes

Materials to Avoid: Strong oxidising agents. Acids

Conditions to Avoid: Avoid high temperatures (store below 30°C) and direct sunlight.

Incompatible Materials: Strong oxidising agents. Do not mix with other chemicals.

Fire decomposition: Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Combustion forms carbon dioxide and, if incomplete, carbon monoxide and possibly smoke. Water is also formed. Carbon monoxide poisoning produces headaches, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgement and unconsciousness followed by coma and death.

Section 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Information on Route of Exposure

Ingestion: Harmful if swallowed, may result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye Contact: May be an eye irritant

Skin Contact: May be irritating if contact with skin.

Inhalation: In large amounts can cause headache, nausea and mucous membrane irritation

Skin Corrosion/Irritation: Repeated or prolonged skin contact can cause dermatitis.

Eye Damage/Irritation: This product is an eye irritant. In severe cases, ulceration and permanent eye damage may occur.

Respiratory or Skin Sensitisation: Not classified

Germ Cell Mutagenicity: Non-hazardous

Carcinogenicity: Non-hazardous

Reproductive Toxicity: Non-hazardous

Specific Target Organ Toxicity (STOT) – Single Exposure: Not classified

Specific Target Organ Toxicity (STOT) – Repeated Exposure: Not classified

Aspiration Hazard: Not classified

Immediate, Delayed and Chronic Health Effects From Exposure: Skin dryness, may experience gastrointestinal irritation if swallowed in large quantities.

Ingestion: This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 300 - 2,000 mg/Kg bw

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity: No product data available.

Persistence and Degradability: No product data available

Bioaccumulative Potential: No information available.

Mobility in Soil: No information available

Other Adverse Effects: None known

Section 13. DISPOSAL CONSIDERATIONS

Disposal methods: Refer to Waste Management Authority. Dispose of contents/container in accordance with Local/regional/national/international regulations.

Section 14. TRANSPORT INFORMATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code for transport by Road and Rail.

Not classified as dangerous goods by the criteria of International Maritime Dangerous Goods Code for transport by sea.

Section 15. REGULATORY INFORMATION

All ingredients are listed in the Australia Inventory of Chemical Substances (AICS). This document has been produced in accordance with the requirements of GHS of classification and labelling.

This SDS 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 SDS 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.

Section 16. OTHER INFORMATION

Abbreviations and acronyms:

ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail.

AICS: Australian Inventory of Chemical Substances.

CAS Number: Chemical Abstracts Service Registry Number.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

HAZCHEM: An emergency action code of numbers and letters which gives information to emergency services.

HSIS: Hazardous Substances Information System

IARC: International Agency for Research on Cancer

NOHSC: National Occupational Health and Safety Commission.

NTP: National Toxicology Program (USA).

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit.

SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons.

TWA: Time Weighted Average. UN Number: United Nations Number.

Literature references:

- Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice (Safe Work Australia)
- GHS Hazardous Chemical Information List (Safe Work Australia)
- Guidance on the Classification of Hazardous Chemicals under the WHS Regulations. Safe Work Australia.
- Global Harmonized System of Classification and Labelling of Chemicals
- “Australian Exposure Standards”
- Australian Code For The Transport Of Dangerous Goods By Road And Rail
- Standard for the Uniform Scheduling of Medicines and Poisons
- Material Safety Data Sheets – individual raw materials – Suppliers.
- Approved Criteria for Classifying Hazardous Substances NOHSC:1008(1999)]
- Hazardous Substance Information System – National Worksafe Data Base.
- Hazardous Chemical Information System (HCIS).
- Implementation of the globally harmonised system of classification and labelling of chemicals (GHS).
- ECHA (European Chemicals Agency)

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