COOLANT ETHANOL <24% ABV
Wine Derived

SAFETY DATA SHEET

Section 1: Identification

- **Product Name:** Coolant Ethanol (<24% ABV)
- **Other Names:** Wine-derived secondary coolant, Low-strength ethanol solution.
- **Recommended Use:** Secondary cooling medium / heat transfer fluid in industrial and winery refrigeration systems.
- **Company Details:**
    - Vintech Pacific Limited
    - 60 The Esplanade, Kaiti, Gisborne, New Zealand
    - **Phone:** +64 6 863 0024
- **Emergency Telephone Numbers:**
    - **National Poisons Centre:** 0800 POISON (0800 764 766)
    - **New Zealand Emergency Services:** 111 (Fire, Ambulance, Police)

Section 2: Hazard(s) Identification

- **HSNO Classification:** Not classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020.
- **GHS Classification (7th Edition):** Not a hazardous substance or mixture.
- **Signal Word:** None
- **Hazard Statements:** None
- **Precautionary Statements:**
    - **Prevention:** P103: Read label before use. P264: Wash hands thoroughly after handling.
    - **Response:** P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
    - **Storage:** P402+P404: Store in a dry place. Store in a closed container.
    - **Disposal:** P501: Dispose of contents/container in accordance with local regional/national regulations.

- **Other Hazards:** Aqueous ethanol solutions containing less than 24% alcohol by volume are **non-flammable liquids** under New Zealand transport and HSNO regulations. However, large spills can still cause environmental impact.

Section 3: Composition and Information on Ingredients

Component	CAS Number	Proportion (% w/w or v/v)
Ethanol (derived from NZ Wine)	64-17-5	< 24% v/v
Water & Proprietary Non-Hazardous Ingredients	7732-18-5 / -	Balance to 100%

Section 4: First-Aid Measures

- **Inhalation:** Move the affected person to fresh air. Seek medical attention if irritation or respiratory symptoms develop.
- **Skin Contact:** Remove contaminated clothing. Wash affected skin areas thoroughly with soap and water. Seek medical attention if irritation persists.
- **Eye Contact:** Flush eyes immediately with plenty of water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Seek medical advice if irritation develops or persists.
- **Ingestion:** Do not induce vomiting. Rinse mouth thoroughly with water. Give water to drink. Never give anything by mouth to an unconscious person. Seek medical attention if large volumes are swallowed or if feeling unwell.
- **First Aid Facilities:** Eyewash facilities and safety shower should be available in the workplace.
- **Advice to Doctor:** Treat symptomatically.

Section 5: Fire-Fighting Measures

- **Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Water spray can be used to cool down containers and dilute spills.
- **Specific Hazards:** Non-flammable liquid. However, if exposed to extreme heat or direct flame in a fire environment, dried residues or vapor headspace could potentially catch fire or release irritating fumes (carbon oxides).
- **Firefighters' Protective Equipment:** Wear a self-contained breathing apparatus (SCBA) and full protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Evacuate unnecessary personnel. Increase ventilation. Wear appropriate personal protective equipment (see Section 8) to prevent skin and eye contact.
- **Environmental Precautions:** Prevent product from entering drains, surface water, groundwater, or soil.
- **Clean-up Methods:** * **Small Spills:** Wipe up with absorbent material (e.g., cloth, fleece). Clean surface thoroughly to remove residual contamination.
    - **Large Spills:** Contain spill with bunding (sand, earth, or other inert barriers). Pump inert liquid into appropriate salvage containers. Absorb remaining liquid with clay or sawdust, and dispose of safely according to local council bylaws. Flush area with plenty of water.

Section 7: Handling and Storage

- **Safe Handling:** Avoid contact with eyes and prolonged contact with skin. Wear appropriate PPE. Do not eat, drink, or smoke when handling this product. Wash hands thoroughly after handling.
- **Safe Storage:** Store in original, tightly closed containers in a cool, dry, well-ventilated area away from direct sunlight and incompatible materials (strong oxidizers). Ensure containers are clearly labelled.

Section 8: Exposure Controls and Personal Protection

- **Workplace Exposure Standards (WES):** * *Ethanol (CAS 64-17-5):* TWA = 1000 ppm 1880 mg/m^3 (WorkSafe NZ)
- **Engineering Controls:** Ensure adequate natural or mechanical ventilation to keep airborne concentrations below exposure limits.
- **Personal Protective Equipment (PPE):**
    - **Eye/Face:** Safety glasses with side shields or chemical goggles if splashing is a risk.
    - **Skin/Body:** Protective gloves (nitrile or neoprene) and standard safety footwear/overalls for industrial handling.
    - **Respiratory:** Not typically required under normal ventilation conditions. If exposure limits are exceeded, use an approved organic vapor respirator.

Section 9: Physical and Chemical Properties

- **Appearance:** Clear, colorless to pale straw-colored liquid (dependent on wine source)
- **Odor:** Mild, characteristic alcoholic/wine odor
- **pH:** 5.0 – 8.0 (approximate)

- **Melting/Freezing Point:** approx. $-10°C to $-15°C
- **Boiling Point:** approx. 85°C - 95°C
- **Flash Point:** >60°C (Does not sustain combustion due to high water content)
- **Flammability:** Non-flammable liquid
- **Solubility in Water:** Completely miscible
- **Specific Gravity / Density:** approx. 0.965 - 0.975 g/cm^3 at 20°C

Section 10: Stability and Reactivity

- **Reactivity:** Stable under normal conditions of use and storage.
- **Chemical Stability:** Stable under recommended storage conditions.
- **Possibility of Hazardous Reactions:** No hazardous reactions known under normal processing.
- **Conditions to Avoid:** Extreme heat, open flames, and incompatible materials.
- **Incompatible Materials:** Strong oxidizing agents, strong acids.
- **Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide may form during thermal decomposition.

Section 11: Toxicological Information

- **Acute Toxicity:** Not classified as acutely toxic.
    - *Ethanol LD50 (Oral, Rat):* >7060 mg/kg
- **Skin Corrosion/Irritation:** May cause mild skin dryness or irritation with prolonged or repeated exposure.
- **Serious Eye Damage/Irritation:** May cause temporary, mild eye irritation/stinging.
- **Respiratory/Skin Sensitization:** Not known to be a respiratory or skin sensitizer.
- **Germ Cell Mutagenicity / Carcinogenicity:** Not classified as mutagenic or carcinogenic in this diluted form. (Note: Chronic consumption of alcoholic beverages is carcinogenic, but industrial/coolant exposure is not classified as such).
- **Reproductive Toxicity:** Not classified.
- **Specific Target Organ Toxicity (Single/Repeated):** Not expected to cause organ damage through typical occupational exposure.

Section 12: Ecological Information

- **Ecotoxicity:** Product is not classified as ecotoxic under HSNO. Large spills could temporarily deplete oxygen levels in aquatic environments due to the organic load (BOD).

- **Persistence and Degradability:** Readily biodegradable.
- **Bioaccumulative Potential:** Low potential to bioaccumulate.
- **Mobility in Soil:** High mobility in soil due to water solubility.

Section 13: Disposal Considerations

- **Waste Treatment Methods:** Dispose of waste product through an approved waste contractor or via local industrial trade waste channels in accordance with local council bylaws. Do not discharge large amounts untreated into natural waterways or stormwaters.
- **Packaging Disposal:** Triple rinse empty containers with water. Recycle or dispose of packaging in accordance with local regulations.

Section 14: Transport Information

- **Land Transport (NZS 5433):** Not regulated as Dangerous Goods for land transport in New Zealand.
- **Marine Transport (IMDG Code):** Not regulated as Dangerous Goods.
- **Air Transport (IATA):** Not regulated as Dangerous Goods.

Note: Aqueous solutions of ethanol containing 24% or less alcohol by volume are explicitly exempted from dangerous goods classification under UN Special Provision 144 / NZS 5433.

Section 15: Regulatory Information

- **New Zealand (EPA):** Not classified as a hazardous substance under the Hazardous Substances (Hazard Classification) Notice 2020.
- **MPI / Food Safety:** Derived from NZ wine processing. Not intended for human consumption as a beverage.

Section 16: Other Information

- **Date of Preparation:** 27 May 2026
- **Abbreviations:**
    - **ABV:** Alcohol By Volume
    - **CAS:** Chemical Abstracts Service number
    - **EPA:** Environmental Protection Authority (New Zealand)
    - **GHS:** Globally Harmonized System of Classification and Labelling of Chemicals
    - **HSNO:** Hazardous Substances and New Organisms Act
    - **TWA:** Time-Weighted Average
    - **WES:** Workplace Exposure Standard

Disclaimer: This Safety Data Sheet summarizes our best knowledge of the health and safety hazard information of the product at the date of issue. Vintech Pacific Limited makes no warranty, express or implied, regarding the accuracy or completeness of this data.

[Version 1, 27/05/2026]