

SAFETY DATA SHEET
VOLTRONIC COOLANT AN R31

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

Product name: VOLTRONIC COOLANT AN R31

Product code: R31

Synonyms: VOLTRONIC KÜHLERFROSTSCHUTZ AN R31

Use of substance / preparation: Coolant

Company name: VOLTRONIC & ACT GmbH

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2. HAZARDS IDENTIFICATION

Main hazards: Harmful if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: ETHANEDIOL 30-50%

EINECS: 203-473-3 CAS: 107-21-1

[Xn] R22

- SODIUM NITRITE <1%

EINECS: 231-555-9 CAS: 7632-00-0

[O] R8; [T] R25; [N] R50

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be pain and redness.

Ingestion: The casualty may appear intoxicated. Damage to liver and kidneys may develop later. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting. May cause drowsiness.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Consult a doctor.

[cont...]

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Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Carbon dioxide. Dry chemical powder. Alcohol resistant foam. Water fog.

Exposure hazards: In combustion emits toxic fumes. In combustion emits toxic fumes of carbon monoxide.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. Alert the neighbourhood to the presence of fumes or gas.

Clean-up procedures: Mix with sand or vermiculite. Refer to section 13 of SDS for suitable method of disposal.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air. Avoid direct contact with the substance.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight. Ensure storage room has retention walls. The floor of the storage room must be impermeable to prevent the escape of liquids.

Suitable packaging: Must only be kept in original packaging. Steel drums. Polyethylene.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: ETHANEDIOL
WEL (8 hr exposure limit): 60 mg/m³ WEL (15 min exposure limit): 125 mg/m³

Engineering measures: Ensure storage room has retention walls. The floor of the storage room must be impermeable to prevent the escape of liquids.

Hand protection: Gloves (oil-resistant). Breakthrough time of the glove material > 4 hours.

Eye protection: Safety glasses.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Blue

Odour: Characteristic odour

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Solubility in water: Miscible in all proportions

Viscosity: Non-viscous

Viscosity value: 8

Viscosity test method: Kinematic viscosity in 10⁻⁶ m²/s at 40°C (ISO 3104/3105)

Boiling point/range°C: >140

Flash point°C: >100

Autoflammability°C: >400

Vapour pressure: <0,1 hPa

Relative density: 1,065

pH: 8

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Materials to avoid: Strong oxidising agents.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: ETHANEDIOL

IVN RAT LD50 3260 mg/kg

ORL MUS LD50 5500 mg/kg

ORL RAT LD50 4700 mg/kg

• SODIUM NITRITE

ORL MUS LD50 175 mg/kg

ORL RAT LD50 180 mg/kg

SCU RAT LD50 96600 µg/kg

Chronic toxicity: Danger of cumulative effects in contact with the skin. Danger of serious damage to health by prolonged exposure if swallowed.

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Mobility: Soluble in water.

Persistence and degradability: Biodegradable.

Other adverse effects: Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS

Disposal operations: D9 Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are disposed of by means of any of the operations in this Annex (e.g. evaporation, drying, calcination, etc.).

R1 Solvent reclamation/regeneration.

Waste code number: 55374

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Disposal of packaging: May be reused following decontamination. Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

UN no: -

Shipping name: "NOT SUBJECT TO ADR"

IMDG / IMO

UN no: -

IATA / ICAO

UN no: -

15. REGULATORY INFORMATION

Hazard symbols: Harmful.



Risk phrases: R22: Harmful if swallowed.

Safety phrases: S2: Keep out of the reach of children.

S36/37: Wear suitable protective clothing and gloves.

S46: If swallowed, seek medical advice immediately and show this container or label.

Water hazard class: 1 Classification by VwVwS

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Risk phrases used in s.3: R22: Harmful if swallowed.

R8: Contact with combustible material may cause fire.

R25: Toxic if swallowed.

R50: Very toxic to aquatic organisms.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.