



Safety Data Sheet According to 1907/2006/EC, Article 31

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1. Identification of Product and Company's Name:

PRODUCT DETAIL

Trade Name: OWS 435 Longlife Coolant Red 50:50 Ready Mix

Article Number: 435

Application of the substance / the preparation:

Manufacturer / Supplier:

Our Workshop System (S) Pte Ltd
107 Tuas View Walk 1, Singapore 637730

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Further information obtainable from:

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2. Hazards Identification:

Risk advice to man and the environment
Xn R22 Harmful if swallowed.

3. Composition/ Information on Ingredients

Chemical Nature: Preparation of substances listed below and inhibitors

Hazardous Ingredients:

ethanediol	Concentration: >=48%
CAS-No.: 107-21-1	Index-No.: 603-207-00-1
EC-No.: 203-473-3	Classification: XN; R22

Sodium 2-ethylhexanoate

CAS-No.: 19766-89-3	Concentration; >=2%
EC-No.: 243-283-8	Classification; Repr. Cat. 3; R63

Water : 50%

4. First Aid Measures:

General advice:	Take off all contaminated clothing immediately.
Inhalation:	Remove to fresh air. Consult a physician.
Skin Contact:	Wash off with soap and plenty of water.
Eye Contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion:	Clean mouth with water and drink afterwards plenty of water. Consult a physician.

5. Fire Fighting Measures

Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Specific Hazards during fire fighting:	Use extinguishing measures that appropriate to local circumstances and the surrounding environment

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and full protective suit when necessary

Additional advice: Cool closed container exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental Release Measures

Personal Precautions : Wear personal protective equipment

Environment Precaution: The product should not be allowed to enter drains, watercourses or the soil

Methods for cleaning up: Large spills should be collected mechanically (remove by pumping) for disposal. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Treat recovered material as described in the section "Disposal considerations"

Additional advice: Contaminated surfaces will be extremely slippery.

7. Handling and Storage

Handling requirements: Ensure adequate ventilation, especially in confined areas. Keep container tightly closed. Product is hygroscopic.

Storage conditions: Keep container tightly closed in a dry and cool place

8. Explosion Control/Personal Protection

Components with workplace control parameters:

ethanediol	CAS-No.: 107-21-1	
MAK:	26 mg/m ³ , 10ppm	TRGS 900
Top limit: =1=		
If in compliance with the MAK and BAT values, then there should be no risk to the fetus.		TRGS 900
Can be absorbed through the skin.		TRGS 900
TWA:	52 mg/m ³ , 20 ppm	EU ELV
STEL:	104 mg/m ³ , 40 ppmt	EU ELV
Can absorbed through the skin.		
Personal protective equipment		

Respiratory protection: Required if vapours or aerosol are released. Recommended Filter type:A

Hand Protection: Protective gloves; The following materials are suitable: nitrile rubber. Protective gloves should be replaced at first sign of wear.

Eye Protection: Tightly fitting safety goggles.

Body Protection: Wear personal protective equipment

Hygiene measures: Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. When using do not smoke. Keep away from food, drinks and animal feeding stuffs. Wash hand before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Form:	liquid
Color:	various
Odor:	sweet
Solidification point:	-14 °C
Boiling Point/range:	>165°C
Flash point:	> 126 °C DIN 51758
Explosive properties:	Formation of explosive air/vapour mixture is possible
Lower explosion limit:	4.9 % (V)
Upper explosion limit:	14.6 % (V)
Vapour Pressure:	0.2 hPa 20°C

Density: ca. 1.12 g/cm³ 20°C DIN 51757
Water solubility: Completely miscible
Viscosity kinematic : 20-30 mm²/s 20°C

10. Stability & Reactivity

Material to Avoid: Strong oxidizing agents.
General advice: No decomposition if stored and applied as directed

11. Toxicological Information

Ingestion: ethanediol: LD50 rat 4,000 mg/kg. These literature data deviate from the classification prescribed by the EC
Skin Absorption: ethanediol ; LD50 rabbit ca. 10,600 mg/kg
Skin contact: No skin irritation
Eye contact: No eye irritation
Sensitization: No sensitizing effect known
Human experience: 1,2-Ethanediol, average lethal dose : 1.2 – 1.5 g/kg, oral adults ; Even low concentrations can cause CNS-depressions and narcosis. Kidney injury may occur.

12. Ecological Information

Biodegradability: ethanediol: 56% 28h; OECD 301 C; Readily biodegradable.
Bioaccumulation: ethanediol ; Does not bioaccumulate
Toxicity to fish: ethanediol; LC50 Oncorhynchus mykiss 18,500 mg/l 96h
Toxicity to daphnia: ethanediol ; EC50 Daphnia magna > 10,000mg/l 48h
Additional ecological info: Do not flush into surface water or sanitary sewer system. Disturbances in degradation activity of living sludge are not expected in the case of proper introduction of low concentration into adaptable biological sewage plants.

13. Disposal Considerations

Product: Disposal together with normal waste is not allowed. Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.
Packaging: Empty remaining contents. Risk of explosion. Do not burn or use a cutting torch on the empty drum. Offer rinsed packaging material to local recycling facilities. Clean container with water.

14. Transportation Instructions:

Land Transportation: N/A
Sea Transportation: N/A
Air Transportation: N/A

15. Regulation Information

R-phrase R22 Harmful if swallow
S-phrase S24/25 Avoid contact with skin and eyes
S46 if swallow, seek medical advice immediately and show label
Hazardous components which must be listed on the label :

* ethanediol

National legislation

WGK (DE) :

WGK:1;slightly water endangering

Risk classification :

Not applicable

**According to VbF
(Germany)**

**Major Accident :
Legislation**

Does not fall under the German StorfallIV

16. Other Information

Full text of R-phrases referred to under sections 2 and 3

R22 Harmful if swallowed

R63 Possible risk of harm to the unborn child

Legal Disclaimer : The above information is believed to be correct but not support 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.