

Product name: **Teboil Engine Cooler Liquid**

Date 07.01.1998

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SAFETY DATA SHEET

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

1.1 Identification of the article

Product name

Teboil Engine Cooler Liquid

1.2 Manufacturer, importer, supplier

1.2.1 Supplier

Oy Teboil Ab

1.2.2 Street address

Bulevardi 26

Postcode and post office

FIN-00120 HELSINKI

Post-office box

P.O.B. 102

Postcode and post office

FIN-00121 HELSINKI, FINLAND

Telephone

ext.+358 2047001

Telefax

ext.+358 204700248

1.2.3 Name and address of the informant in emergency cases

HUCH / Poison Information Centre

Haartmaninkatu 4, FIN-00029 HYKS, FINLAND

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1 Chemical characterisation

A blend of monoethylen glycol and additives.

2.2 Hazardous components

2.2.1 CAS-No.	2.2.2 Chemical name of the substance	2.2.3 Weight %	2.2.4 Classification
107-21-1	Ethylene glycol	> 90 vol-%	Xn; R22
7632-00-0	Sodium nitrite	0,5 w-%	O;T R8-25

3. HAZARDS IDENTIFICATION

HUMAN HEALTH: Dangerous if swallowed or after inhaling hot mists:estimated average lethal dose 100g.

Irritates eyes and mildly skin. Product may be absorbed through the skin.

ENVIRONMENT: Risk of oxygen lack in water systems.

4. FIRST AID MEASURES

4.1 General advice

Symptoms of poisoning may occur after several hours, therefore medical observation is needed for at least 40 hours after exposure (swallowing).

4.2 Inhalation

After inhalation supply fresh air; consult a physician in case of symptoms.

4.3 Skin contact

Wash thoroughly with plenty of water.

4.4 Eye contact

Rinse opened eyes for several minutes under running water.

4.5 Ingestion

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DO NOT INDUCE VOMITING! After swallowing instantly call a doctor.

4.6 Notes to physician

Symptoms are similar to alcohol poisoning.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO₂, powder, alcohol resistant foam.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

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6.2 Environmental precautions

Prohibit larger amounts to spread into environment. Small amounts may be diluted with water. Contact local authorities.

6.3 Methods for cleaning up

Absorb with liquid-binding material (sand, sawdust etc.) and dispose of as waste.

7. HANDLING AND STORAGE

7.1 Handling

Empty drums are not allowed to reuse before thorough cleaning.
Empty drums are not allowed to warm up, cut or weld.

7.2 Storage

The product must be stored over -10°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Engineering measures

Avoid skin contact and inhalation of mist. Clean up spills from the skin. Change spilled clothing.

8.2 National occupational exposure limits

8.2.1 National occupational exposure limits

CAS-No.	107-21-1	.
Chemical name of the substance	Ethylene glycol	
	125 mg/m ³ (8 h)	190 mg/m ³ (15 min)

8.3 Personal protective equipment

8.3.1 Hygiene measures

Keep away from foodstuffs and beverages.
Wash hands before eating, drinking, smoking or toilet.

8.3.2 Respiratory protection

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8.3.3 Hand protection

Neoprene or nitrile gloves.

8.3.4 Eye protection

Safety glasses if there is a risk of splashing.

8.3.5 Skin and body protection

Protective clothig and chemically resistant shoes if needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 **Form, Colour, Odour** Green fluid with charasteristic odour.

9.3 Information on changes in the physical state

9.3.1 **Boiling point/range** +197 °C

9.3.2 **Melting point/range** -13 °C

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9.4	Flash point	+111°C
9.8	Explosion limits	
	- lower	3,2 vol-% (glycol)
	- upper	53 vol-% (glycol)
9.10	Vapour pressure	< 0,1 mbar @20°C
9.11	Relative density	ca. 1110 kg/m ³ @15°C
9.12	Solubility	
	- water solubility	Soluble
	- fat solubility	-
9.13	Partition coefficient (n-octanol/water)	
	-	
9.14	Viscosity	20-25 mm ² /s @20°C

10. STABILITY AND REACTIVITY

10.3 Hazardous decomposition products

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11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

For monoethylene glycol:

LD₅₀ > 8540 mg/kg (oral, rat).

LC₅₀ > 9530 mg/kg (dermal, rabbit).

11.2 Primary irritation

Irritates the eyes (rabbit).

11.3 Sensitisation

No sensitizing effects known.

11.5 Human experience

Estimated lethal dose 100 g. May cause damages in kidneys or in nervous system if swallowed. Irritates the eyes and mildly the skin. Hot mists may irritate respiratory tract.

12. ECOLOGICAL INFORMATION

12.1 Persistence and degradability

12.1.1 Biological degradability

Biodegradable.

12.2 Bioaccumulation

Not bioaccumulative.

12.3 Mobility

Soluble in water.

13. DISPOSAL CONSIDERATIONS

Dispose of according to local authorities' instructions.

14. TRANSPORT INFORMATION

14.1 UN-No

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14.3 Land transport

14.3.1 Class

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14.4 Sea transport

14.4.1 Class

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14.5 Air transport

14.5.1 ICAO

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15. REGULATORY INFORMATION

15.1 Labelling

15.1.1 Symbol(s)

Xn Harmful

15.1.2 Contains

Ethylene glycol

Sodium nitrite

15.1.3 R-phrases

R22 Harmful if swallowed.

15.1.4 S-phrases

S2 Keep out of reach of children.

S25 Avoid contact with eyes.

S13 Keep away from food, drink and animal feeding stuffs.

16. OTHER INFORMATION

16.1 Recommended use

16.1.1 Expressed in writing

Anti-freeze agent for engine's cooling system.

16.3 Further information

This information has to be available for all those, who work with this product. This MSDS is based on the present knowledge and it is meant to answer questions about product's influence on health, safety and environment.