



SAFETY DATA SHEET

Date: 10-06-2008

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1. Chemical product and company identification: „Szuperzöld” coolant concentrate

Manufacturer: Petrochem U.K. limited

Adress, phone, fax number: Rowan Court 56, High Street, Wimbledon Village, London SW 19 5EE

Phone: 0181-879-3090

Distributor: Első Vegyi Industria ZRt.

trade@evirt.hu

Adress, phone, fax number: 1139. Bp. Kartács utca 6.

Phone: 36-1-322-0231

Fax: 36-1-342-1507

Telephone number for emergency: 06-80-201-199 or 06-1-476-6400 or 06-1-476-6464 (night/day)

2. Hazard identification:

Symbol: -

R: -

S: 2-24/25

(Keep out of reach of children. Avoid contact with skin and eyes.)

3. Composition/Information on ingredients:

1,2-propane-diol (Propylene glycol): 90-95%

CAS-Nr.: 57-55-6

EU-Nr.: 200-338-0

Water: < 5 %

CAS-Nr.: 7664-41-7

EU-Nr.: 231-635-3

Trade Secret-ACC P002269-01 # < 4.6 %

Denatonium benzoate small quantities

CAS-Nr.: 3734-33-6

EU-Nr.:

4. First aid measures

First aid measures:

Ingestion: If large quantity swallowed, give lukewarm water (1/2 litre) if victim completely conscious/alert. Do not induce vomiting/risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention..

Inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

Skin contact: Not expected to present a significant skin hazard under anticipated conditions of normal use.

Eye contact: In case of contact, immediately rinse with copious amounts of water for 20-30 min. Obtain emergency medical attention if pain, blinking, tears or redness persist.

5. Fire fighting measures:

Extinguishing media

Suitable: Water fog/spray, carbon dioxide, dry chemical powder or foam for alcohols

Hazardous thermal (de) composition products: carbon monoxide and other toxic gases

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

Flash point: 99-103 °C

Autoignition temperature: ~ 371-421 °C

Class: „C”

Flammability limits in air: Lower ~ 2.5 % Upper: ~ 12.6 %

Other comments: Use water spray/fog for cooling. Fine spray/mists may be combustible at temperatures below normal flash point.



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6. Accidental release measures:

Slippery walking, spread granular cover or soak up. Evacuate and limit access. Equip responders with proper protection. Stop release. Prevent flow to sewers/public waters. Notify fire and environmental authorities. Restrict water use for cleanup. Impound/recover large land spill. Soak up small spill with inert solids. Use suitable disposal containers. On water, material is completely soluble, may float or sink. May biodegrade. Contain/recover rapidly to minimize dispersion. Disperse residue to reduce aquatic harm.

7. Handling and storage:

Handling: Do not get in eyes, on skin, on clothing. Avoid inhalation. Wash thoroughly after handling.
Storage: Store in a tightly closed containers. Store away from heat, moisture, strong oxidizing agents. Material can attack some forms of plastics. Do not heat higher than 28 °C below flash point unless in closed system away from air. Handle empty containers with care, residue may be combustible.

8. Exposure controls/personal protection :

Chemical safety head and face protection, rubber gloves, boots. (NIOSH/MSHA approved respirator if needed). Safety shower and eye bath.

9. Physical and chemical properties:

Physical state: slightly viscous liquid Colour: green
Odour: rather odourless
Melting point: < - 60 °C Initial Boiling point: (155) 188 °C
Specific gravity: ~ 1050 kg/m³ (20 °C) Viscosity: ~ 46 mPas (25 °C)
Solubility in water: yes (100 g/100 g water 20°C) Vapor pressure: < 0.1 mm Hg (21 °C), 0,08 bar (25°C)

Volume of Szuperzöld	Melting point / diluted Szuperzöld concentrate		Melting point (°C)
	Volume of distilled water		
1	0		- 60
1	1		- 33
2	3		- 22
3	7		- 13

10. Stability and reactivity:

Stability: Stable.
Hazards: heat, sparks, open flame, ignition sources
Materials to avoid: strong oxidizing agents, strong alkalies
Hazardous decomposition products: carbon-monoxide and other toxic gases
Hazardous polymerization: Will not occur.



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11. Toxicological information:

LD₅₀(rat, oral): 23000 mg/kg

TWA: 470 mg/m³ (8 h, U.K. propylene glycol)

Eye: May cause minor irritation.

Swallowed: May be a slight health hazard if ingested in large quantities.

Skin: High concentrations contact with human skin under closed conditions have been reported to cause skin irritation.

12. Ecological information:

May biodegrade.

Daphnia magna

LC₅₀/96 h

EC₅₀

23800 mg/l

> 43500 mg/l (48 h)

13. Disposal considerations:

Methods of disposal: This concentrated liquids combustible material, may be burned in a chemical incinerator equipped with an afterburner and scrubber. Material is soluble in alkaline (pH>8) biodegrade. Observe all federal, state and local environmental regulations.

14. Transport information:

National transport regulations: Not regulated.

15. Regulatory information:

European: Symbol: None

Hungarian identificial Number: B-001452 (Propylene glycol)

16. Other:

The Health and Safety information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept ability for any loss, injury or damage which may result from its use. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties.

ELSŐ VEGYI IPARVÁLLALKODÁS ZRT.
1139 Bp., Kartács u. 8.