



7/2/2007

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Agrol Glykol Super

Use: Antifreeze agent

Supplier Lantmännen Energi AB
Box 30192
104 25 Stockholm

Telephone +468 657 42 00
Fax +468 657 42 88

Producer Petrolia AB
Box 5194
102 44 Stockholm
Telephone No +468 670 34 00

Emergency telephone Swedish Poisons +468 33 12 31 (daytime)
Information Centre 112 (acute)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	EG-no	CAS-no	Content (%)	Symbols	R-Phrases
1,2-Ethandiol	203-473-3	107-21-1	95-100	Xn	R22
Inhibitor			0-5	-	-

Contains vomiting agent: 25 ppm, bitrex (denatonium benzoat)

3. HAZARDS IDENTIFICATION

Life-threatening poisoning or injury of kidney and nervous system can occur if swallowed

4. FIRST AID MEASURES

Inhalation Remove to fresh air. Consult a doctor in case of symptoms.

Ingestion Flush oral cavity and drink some water. Try to induce vomiting and consult a doctor.

Skin contact Remove contaminated clothing. Wash skin with water and soap. Rinse thoroughly.



7/2/2007

Eye contact Rise with opened eye with water.

5. FIRE-FIGHTING MEASURES

Extinguishing media Water spray, foam, CO2 or dry powder. Container close to fire should be removed or cooled with water. The material will not burn unless preheated.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions Do not allow the product to enter the environment.

Methods for cleaning up Prevent liquid entering sewers. Absorb smaller quantities. Use sand or active clay. With greater spill, get in contact with rescue workers.

7. HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Do not use contaminated clothes. Prevent inhalation of the product.

Storage Store in original closed containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Good ventilation should be provided.

Eye and skin protection If necessary use safety goggles and protective gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Colour	Blue-green
pH	7.1
Boiling point (°C)	175
Solubility in water	Soluble
Melting point (°C)	-38 (50 vol% glycol)
Flash point (°C)	> 120 method: (ASTM D93, P-M)
Density (kg/m ³), 15°C	1130

10. STABILITY AND REACTIVITY

Stability Stable under normal condition.



Conditions/materials to avoid Strong oxidizing agents, strong acids and high temperatures.

11. TOXICOLOGICAL INFORMATION

Inhalation	Inhalation of dust/fumes in high concentration can cause dizziness, heaviness and headache.
Ingestion	Life-threatening poisoning. Can cause injury of kidney and nervous system
Skin	Can cause slight skin irritation.
Eye	Can cause slight eye irritation.

12. ECOLOGICAL INFORMATION

Degradability	Readily degradable.
Ecotoxicity	Probably low toxic effect on organisms in water.

13. DISPOSAL CONSIDERATIONS

Local authority should be informed when discharge of greater spill.

Classified as hazardous waste.

EWC code: 16 01 14, Antifreeze fluids containing dangerous substances

Packaging

EWC-code: 15 01 02, Plastic packaging

EWC-code: 15 01 04, Metallic packaging

EWC-code: 15 01 10, Packaging containing residues of or contaminated by dangerous substances

14. TRANSPORT INFORMATION

UN-no	Not classified
RID / ADR	Not classified
IMO	Not classified
IATA / ICAO	Not classified

15. REGULATORY INFORMATION



7/2/2007



Harmful

- R-Phrases R22 - Harmful if swallowed
- S-Phrases S2 - Keep out of the reach of children
S24/25 - Avoid contact with skin and eyes
S46 - If swallowed, seek medical advice
 immediately and show this container or
 label.

LIFE-THREATENING POISONING OR KIDNEY INJURY CAN
OCCUR IF SWALLOWED.

16. OTHER INFORMATION

Text of R-phrases indicated in section 2:

R22 - Harmful if swallowed

Revision date: 7/2/2007

Signature: Lennart Fahlgren
 Petrolia AB