

Neutragel Monoethylene Glycol

SAFETY DATA SHEET
(according to 91/155/CEE)

1. SUBSTANCE / PREPARATION AND COMPANY NAME

Neutragel SB

Antifreeze for cooling systems.

ISCEON DISTRIBUTION SERVICES

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Product contains more than 90 % of Ethanediol (synonyms : Ethylene Glycol, Mono Ethylene Glycol).

Ethanediol : CAS-No : 107-21-1
 CEE-No : 603-027-00-1

3. POSSIBLE HAZARDS

R22 : Harmful if swallowed.

4. FIRST AID MEASURES

Remove contaminated clothes.

If inhaled, keep patient calm, remove to fresh air, summon medical help.

On skin contact, wash thoroughly with soap and water.

On contact with eyes, wash affected eyes for at least 15 minutes under running water with eyelids held open, then consult an eyespecialist.

If swallowed, immediately rinse mouth and then drink plenty of water, summons physician.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media : water, dry extinguishing media, foam, carbon dioxide (CO₂).

If exposed to fire, keep containers cool by spraying with water ; risk of emission of poison gases (carbon monoxide and nitrogen oxides).

Respiratory protection : self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Keep containers exposed to fire cool by spraying with water, because an overheating creates an increase in pressure, which can be a risk of explosion.

Do not discharge product into natural waters without pretreatment (biological treatment plant).

Method for cleaning up : pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust).

Cleaning operations should be carried out only with breathing apparatus.

When picked up, treat material in accordance with local laws.

7. HANDLING AND STORAGE

Storage in a dry place.

Keep tightly closed and ensure through ventilation of stores and work areas.

Storage in galvanized containers is not recommended.

Keep away from heat sources - No smoking.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eye protection : goggles.

Hand protection : rubber gloves.

Body protection : closed working clothing.

The usual precautions for the handling of chemicals must be observed. Females of childbearing age should not come into contact with the product.

Do neither smoke, drink, nor eat during the work time.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid.

Odour : odourless

Solidification temperature : approx. -15 °C

Boiling point : 161 °C

Density at 20 °C : 1,126

Solubility in water : total

pH value at 33 % in volume in water : 8,1 to 8,5

Octanol/water coefficient for Ethylene Glycol : log/Pow= -1,36

Flash point : >120 °C according to NF 076019

Explosion limits for Ethylene Glycol :
lower : 3,2 % en vol.
upper : 53 % en vol.

10. STABILITY AND REACTIVITY

Thermal decomposition :

No decomposition if used as prescribed.

Hazardous decomposition products :

No hazardous decomposition products if used as prescribed. If exposed to fire, risk of emission of poison gases (carbon monoxide and carbonic anhydrid).

Dangerous reactions with HNO₃ at high concentration.

11. TOXICOLOGICAL INFORMATION

All informations herebelow are given for Ethylene Glycol.

Acute toxicity :

LD50 / oral / rat : 5840 mg/kg

LD50 / cutaneous / rabbit : 19350 mg/kg

Primary skin irritation / rabbit / OECD 404 : not irritating

Primary mucous membrane irritation / rabbits' eye / OECD 405 : not irritating

Experience in humans :

Lethal dose if swallowed ca. +/- 1.5 g/kg body weight.

Lethal dose ca. 90-110 g for adults, and correspondingly less for children.

Smaller doses can result in : consciousness is affected, kidney damage, damage to the central nervous system. Can irritate the eyes.

12. ECOLOGICAL INFORMATION

All informations herebelow are given for Ethylene Glycol.

Easy to eliminate.

Elimination : test methods : OCDE 302B/ ISO 9888/ EEC 88/302, C

Degree of elimination : >70%.

Behaviour and environmental fate : inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Generally speaking, Ethylene glycol is not a dangerous product for water.

13. DISPOSAL CONSIDERATIONS

Product must be disposed of by special means, e.g. suitable incineration, in accordance with local regulations. Uncontaminated packs can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. TRANSPORT INFORMATION

Not dangerous for transport.

Keep away from food.

15. REGULATORY INFORMATION

Labelling according to EEC Directives :

Xn : Harmful
R 22 : Harmful if swallowed.
S2 : Keep out of reach of children.
S24/25 : Avoid contact with skin or eyes.
S46 : If swallowed, seek medical advice immediately and show this container or label.
Ethylene Glycol :
Vapour : VLE = 125 mg/m³ (50 ppm)- (France)
Value CMA : 10 ppm (26 mg/m³)
Limit of category I.

_16. OTHER INFORMATION

This sheet completes our technical sheet but it does not replace it.
The information we give is based on the present knowledge of our products, and valid on the date mentioned below.
The users' attention is drawn to the risks possibly incurred if the product is used for other utilizations it is not specified to.

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