

Material safety data sheet

Product

Cooling fluid GENCOOL PC-26

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Code : 00945

Version : 4

Date : 07/09/2004

Supersedes : 02/06/2004

01 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION (*)

PRODUCT NAME : Cooling fluid GENCOOL PC-26
Recommended uses : Antifreeze for car cooling circuit
SUPPLIER :
Name : S.M.B.
Address : PAE du Pays du Mont Blanc
102, rue Georges Toussaint
B.P. 22
74190 PASSY
Telephone number : 04 50 47 53 45
Telefax number : 04 50 78 33 72
Department to contact : Department Material Safety Data Sheets - TEL : 01 49 83 53 00
EMERGENCY TELEPHONE
NUMBER : INRS/ORFILA (France) : 33 1 45 42 59 59

02 COMPOSITION / INFORMATION ON INGREDIENTS

PREPARATION :
Chemical nature : Product based on :
Ethylene glycol
Components contributing to the
hazard : Ethylene glycol (ethanediol) : > 35 %
CAS : 107-21-1
EINECS : 203-473-3
EC classification : Xn; R22

03 HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS :
Adverse human health effects : Harmful if swallowed
Classification of the product : According to european regulations, this product is classified as :
- HARMFUL

04 FIRST AID MEASURES

Inhalation : Move the affected person away from the contaminated area and into the fresh air
Skin contact : Remove all contaminated clothing and footwear
Wash with soapy water
If case of redness or irritation, call a doctor
Eye contact : Rinse immediately with plenty of water (for at least 15 minutes)
Consult an eye specialist if necessary
Ingestion : Never attempt to induce vomiting
If the person is fully conscious, make him/her drink water. Never give an unconscious person anything to drink
Call a doctor immediately

05 FIRE-FIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO2)
Water spray
Powders
Foam
Specific hazards : Toxic gases are released

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Specific fire fighting methods : Cool down the containers exposed to heat with a water spray

Protection of fire-fighters : Self-contained breathing apparatus

06 ACCIDENTAL RELEASE MEASURES

Personal precautions : Avoid contact with skin and eyes
Do not attempt to take action without suitable protective equipment
Remove all sources of ignition

Environmental precautions : Avoid direct discharge into drains
Contain the spilled material by bunding

Methods for cleaning up :

- Neutralization : Absorb spillage with:
- inert absorbent material.
- Cleaning/decontamination : Wash contaminated area with large amounts of water
- Disposal : Dispose of contaminated materials in accordance with current regulations

07 HANDLING AND STORAGE

HANDLING

Technical measures : Vapour extraction at source

Precautions : Avoid any direct contact with the product
Smoking is forbidden

STORAGE

Storage conditions :

- Recommended : Store :
- in a cool, well-ventilated area
- away from any source of ignition
- the container tightly closed and dry

Incompatible products : Strong oxidizing agents

Packaging materials :

- Recommended : Coated steels
Aluminium.
Plastic materials
- Not suitable : Galvanised receptacles

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures : Ensure good ventilation of the work station

Occupational exposure limits :

- France : Ethylene glycol : VLE = 125 mg/m³ (50 ppm).

Personal protective equipment :

- Respiratory protection : Self-contained breathing apparatus.
- Hand protection : Nitrile-rubber protective gloves.
Protective gloves made of PVC.
Neoprene protective gloves.
- Eye protection : Safety spectacles

Hygiene measures : Do not drink, eat or smoke in the workplace

09 PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid

Colour : orange fluorescent

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Odour : none
pH : ~ 8.2
Specific temperatures :
- Melting : ~ -26°C
- Boiling : ~ 105°C
Flammability characteristics :
- Flash point : > 100°C
Explosion properties :
- Lower : 3.2 % (volume)
- Upper : 15.3 % (volume)
Specific gravity : 1,06 g/cm³ at 20 °C
Solubility :
- in water : Miscible in all proportions
Octanol/water partition coefficient : -1.93 (log POW).

10 STABILITY AND REACTIVITY

Stability : Stable at ambient temperature and under normal conditions of use
Hazardous reactions :
- Materials to avoid :
- strong acids
- strong bases
Reacts violently with :
- strong oxidizing agents

- Hazardous decomposition products :
On combustion or on thermal decomposition (pyrolysis) releases :
Carbon oxydes (CO, CO₂)
Various hydrocarbon fragments
- above 500-600 °C :
Acetic aldehyde

11 TOXICOLOGICAL INFORMATION

Acute toxicity : Ethylene glycol:
LD 50 skin (Rabbit) : 19530 mg/kg
Harmful if swallowed
LD 50 oral (Rat) : 8540 mg/kg.
May affect kidneys

Acute symptoms : Headaches
Nausea
Vomiting
Central Nervous System depressant

12 ECOLOGICAL INFORMATION

DEGRADABILITY:
Biodegradability : Readily biodegradable
ECOTOXICITY :
Effects on the aquatic environment : Ethylene glycol :
The product does not have any known adverse effect on the tested aquatic organisms
LC 50 (Fish: leuciscus idus) : > 10000 mg/l
EC 50 (Bacteria : pseudomonas putida) : > 10000 mg/l

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OTHER ADVERSE EFFECTS:

Effect on sewage treatment plant: Does not affect the functioning of waste-water treatment plants

13 DISPOSAL CONSIDERATIONS

WASTE FROM PRODUCT :

Destruction/Disposal : Dispose of in accordance with relevant local regulations

CONTAMINATED PACKAGING :

Destruction/Disposal : Destroy at an authorised site

NOTE : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal

14 TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS :

RID/ADR/IMDG/IATA : Not restricted

NOTE : The above regulatory prescriptions are those valid on the date of publication of this sheet
However, given the possible evolution of transport regulations for hazardous materials, in case the present sheet is dating back to more than 12 months ago, it would be advisable to check their validity with your commercial agency

15 REGULATORY INFORMATION

EC LABELLING : Mandatory labelling (self-classification) of hazardous preparations : applicable

Identification of the hazardous product :

Contains :
Ethylene glycol

- Symbols and danger information :

- HARMFUL (Xn)

- R phrases :

R 22 : Harmful if swallowed

- S phrases :

S 2: Keep out of the reach of children

S 46: If swallowed seek medical advice immediately and show this container or label

FURTHER REGULATIONS :

NOTE : Refer to all applicable national, international and local regulations or provisions.
The user's attention is drawn to the possible existence of additional provisions which complete these regulations.
The regulatory information given in this part only indicate the principal regulations specifically applicable to the product described in the Safety Data Sheet.
The cited basic Community texts are being updated and transcribed in national law.

16 OTHER INFORMATION

Further information:

Product for industrial use only
For more information regarding the use of this product, please refer to our technical information or contact the sales department in your region.

* Update :

This sheet was updated (refer to the date at the top of this page)
The amended headings are indicated by an asterisk (*)

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This sheet complements the technical sheets but does not replace them. The information given is based on our knowledge of the product, at the time of publication. It is given in good faith.

Besides, the attention of the user is drawn to the possible risks incurred by using the product for any other use than that for which it was intended.

In no way does this exempt the user from knowing and applying all the regulations controlling his activity. He alone will take on the responsibility for taking the precautions involved by the use of the product.

The aim of all the mandatory regulations mentioned is just to help the user to fulfil his obligations regarding the use of hazardous products.

This information must not be considered exhaustive. It does not exempt the user from ensuring that other obligations than those mentioned could apply, related to the storage and use of the product, this being his sole responsibility.

End of document

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