

HEPU COOLANT ADDITIVE P999-G12-Plus

1. Identification of the product and of the company

Identification of the product: P999 HEPU-G12-Plus Coolant Additive
P999 HEPU-G12-Plus Coolant Agent
P999 HEPU-G12-Plus Antifreeze
Company / undertaking identification: HEPU Autoteile GmbH
Am Kreuzweg 2
D-32689 Kalletal-Hohenhausen
Tel.: ++49 (0) 5264-6483-0
Fax: ++49 (0) 5264-6483-33

2.) Composition/information on ingredients:

cooler protection agent
produkt contains organic salts. Ethylenglycol and corrosion protecting agents.

Declaration of ingredients:

➤ 50 % Ethandiol
Symbol: Xn
R-Phrases: 22
CAS-Nr.: 107-21-1

< 5% ethyl hexanoic acid
Symbol: Xn
R-Phrases: 63
CAS-No. 149-57

3.) Hazards identification of the product:

R22: Harmful if swallowed

4.) First aid measure:

after inhalation: Remove on fresh air. If spray mist is inhaled, seek medical attention.
after skin contact: Rinse with running water and soap. Skin care. Replace contaminated clothes.
after eye contact: Immediately flush eyes with copious amounts of running water (for 10 minutes) if necessary see an oculist.
After ingestion: Drink 1 – 2 glasses of water, do not induce vomiting. Immediately call for doctor.

5.) Fire – fighting measures:

Suitable extinguishing media:

In case fire, cool endangered containers with water spray, foam, extinguishing power, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

None known

Special exposure hazards arising from product itself, from combustion products or from the resulting gases:

In case of fire, poisonous gases could be realised.

Special protective equipment for firefighters:

Put on breathing apparatus.

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6.) Accidental release measure:

Personal precautions:

Ensure adequate ventilation

Environment precautions:

Do not allow to enter drainage system, surface or ground water.

Methods of cleaning up/of removing:

Wipe up using absorbent material and subject to waste incineration (see point 13). Wash away residue with plenty of water.

7.) Handling and storage:

Handling:

Ensure adequate ventilation

Storage:

Storage according to WGK (Kap. 15) store in a cool place. Storage class: VCI-storage class: 10 (BRD)

8.) Exposure controls/Personal protection:

Information on system design:

No future data, see item.

Components with specific control parameters:

The product contains Ethandiol, CAS-No.: 107-21-1. The relevant German exposure-limit for working place (MAK-value) according to 'TRGS 900' for this substance is 10 ppm = 26 mg/m³. (STEL-category=1=); skin absorbable

Personal protection:

Keep away from food, beverages and animal feed;

Respiratory protection: if there is atomization or steam (e.g. released from hot surfaces)

Hand protection: protective gloves made of rubber

Eye protection: protective goggles

9.) Physical and chemical properties:

Physical state: liquid

Colour: violett

pHt: (bei 10g/l water) (20° C) 8,1

Frost sensitivity: under -25° C

Flash point: no flash up to 100°C

Explosive Properties: Product is not explosive air/steam mixtures is possible.

Relative density: (20° C) 1,1 g/cm³ (ca.)

Solubility: (20° C) miscible in water

10.) Stability and Reactivity:

Conditions to avoid:

No decomposition if used according to specifications

Materials to avoid:

Reaction with oxidizing agents (e.g. nitric acid, nitrating acid)

Hazardous decomposition Products:

HEPU COOLANT ADDITIVE P999-G12-Plus

None if used for intended purpose

11.) Toxicological information

Ingestion:

Harmful if swallowed

12.) Ecological information

The following ecological assessment results from the basis of the raw materials contained in the product and/or of structurally comparable substances.

Persistence and degradability

Degradability:

In ready degradability tests (e.g. OECD tests 301 A-E), the biodegradation of the organic product components yields a result of $\geq 60\%$ BOD/COD or $\geq 70\%$ DOC – removal within 28 days).

Aquatic toxicity:

Acute fish toxicity: LC 50 > 100 mg prod./l (golden orfe, DIN 38412T15 or zebra fish ISO 7346)

Acute bacterial toxicity: ECO >100 mg prod./l (oxygen consumption test with Ps. Putida).

13.) Disposal consideration

Waste incineration with the approval of the responsible local authority. EWC-Code: 070604

14.) Transport information

Not a hazardous material according to RID/ADR, GGHVS/GGVE, ADN, IMDG, ICAO-TI/IATA-DGR

15.) Regulatory information

Classification and labeling according to GefStoffV:

Symbol of danger:

Xn Harmful

Ingredients:

Ethandiol

R-Phrases:

R22 – Harmful if swallowed.

S-Phrases:

S46: If swallowed, seek medical advice immediately and show this container or label

National prescriptions:

Employment restrictions under § 15b GefStoffV. Must be observed

WGK 1, slightly water – endangering product (manufacturer classification with the calculation method of the German VwVwS of Mai 17,1999):.

16.) Other Information

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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