

## HEPU COOLANT ADDITIVE P999-G12



### 1. Identification of the product and of the company

Identification of the product: P999-G12 HEPU Coolant Additive  
P999-G12 HEPU Coolant Agent  
P999-G12 HEPU Antifreeze

Company / undertaking identification: HEPU Autoteile GmbH  
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### 2. Composition / information on ingredients

Cooler protecting agent  
Product contains organic salts, ethylenglycol and corrosion protecting agents.

Declaration of ingredients:

> 95 % Ethandiol  
Symbol: Xn  
R – Phrases: 22  
CAS – No.: 107 –21 – 1

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

### 3. Hazards identification of the product

R 22: Harmful if swallowed

### 4. First aid measure

after inhalation:

Remove to 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.

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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 of 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 released.

Special protective equipment for firefighters:

Put on breathing apparatus.

### **6. Accidental release measure**

Personal precautions:

Ensure adequate ventilation

Environmental 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 that workrooms are adequately ventilated. Avoid open flames.

Storage:

Storage according to WGK (s. Kap. 15) store in a cool place.

Storage Class: VCI - storage class: 10 (BRD)

### **8. Exposure controls / personal protection**

Information on the 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/m<sup>3</sup>.

( 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 : red

pH : (at 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 are possible.

Relative density: (20°C) 1,1 g/cm<sup>3</sup>

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:

none if used for intended purpose

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### **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 ( Limits for ready degradability :  $\geq 60$  % 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 , GGVS/GGVE , ADNR , IMDG , ICAO-TI/IATA-DGR.

### **15. Regulatory information**

Classification and labeling according to GefStoffV:

Symbol of danger:

Xn Harmful

Ingredients:

Ethandiol

R-phrases:

R 22 : Harmful if swallowed

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S-phrases:

S 46 : 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.