

Material Safety Data Sheet According to 91/155 EEC

EN 1 / 4
Reviewed on 23.08.2006

Coolant liquid 600 000 005
Printing date: 16.10.2006

1. Identification of substance

Product details:

Coolant liquid 600 000 005

Application of the substance / the preparation Metal working fluid

Manufacturer/Supplier:

Wemaro Tools Service

Max-Eyth-Str. 7

D - 75428 Illingen

Tel. +49 (0) 70 42 / 82 63-0

+49 (0) 30-19240 (Emergency information, Berlin)

2. Composition / Data on components

· Chemical characterization

· **Description:** Preparation based on alkanolamineborates, additives and water.

· Dangerous components:

Carbonic acid, aminsalt

3-5%

R 52/53

· Additional information

For the wording of the mentioned R-phrases (as far as relevant) refer to section 16.

3. Hazards identification

· **Hazard designation:** None

· **Information pertaining to particular dangers for man and environment** None

· Classification system

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

· **Additional information:** Not classified as dangerous.

4. First aid measures

· **General information** No special measures required.

· After inhalation

Remove to fresh air, if rapid recovery does not occur, obtain medical attention.

· After skin contact

Remove contaminated clothes and wash affected skin with soap and water.

· After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· After swallowing

Do not induce vomiting. If rapid recovery does not occur, obtain medical attention.

· **Information for doctor** Treat symptomatically.

5. Fire fighting measures

· Suitable extinguishing agents

Use fire fighting measures that suit the surrounding area.

CO₂, extinguishing powder, water mist, foam.

· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

· Special hazards caused by the material, its products of combustion or flue gases:

Can be released in case of fire

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

· **Protective equipment:** Full protective clothing and self-contained breathing apparatuses.

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6. Accidental release measures

· **Person-related safety precautions:**

if possible: ventilate affected rooms, minimize contact with skin.

· **Measures for environmental protection:**

Prevent further leakage and contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.

Contact local authorities.

· **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders, sawdust).

Disposal of the collected material according to local regulations.

· **Additional information:** None

7. Handling and storage

· **Handling**

· **Information for safe handling:**

Avoid forming of mist or vapours, use local exhaust ventilation to control mists or vapours.

· **Information about protection against explosions and fires:**

Burning class according DIN EN 2: B

· **Storage**

· **Requirements to be met by storerooms and containers:**

Keep container tightly closed. Keep away from heat sources direct sunlight.

· **Information about storage in one common storage facility:**

Store away from oxidizing agents.

Store away from foodstuffs.

· **Further information about storage conditions:**

Recommended storage temperature: 20 °C

Protect from frost.

· **Maximum storage temperature:** 40 °C

· **Minimum storage temperature:** 5 °C

· **Further information:** Maximum storage: 6 months

8. Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with critical values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:**

The lists that were valid during the compilation were used as basis (e.g. TRGS 900 (Germany) and directive 2000/39/EG).

· **Personal protective equipment**

· **General protective and hygienic measures**

Avoid long, repeated and intensive skin contact. If necessary wear protective apron. Before working use protection cream. After work and/or before eating clean up hands with water and mild cleaning agents or soaps. Use skin-care-products after cleaning. While using the product do not eat or drink. Don't keep product contaminated rags in pockets. Keep away from foodstuff.

· **Breathing equipment:**

see chapter 7;

In case of exceeded exposure-limits: respiratory protection with particle-filter (e.g. ABEKP3).

· **Protection of hands:**

· **Material of gloves**

if needed: safety gloves made of suitable material

(e.g. nitrile rubber; manufacturers' instructions and CEN-symbol have to be attended).

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- **Penetration time of glove material**
level 6, > 480 min, thickness 0,9 - 1,0 mm; CE-certified according to EN 374 cat. III
- **Not suitable are gloves made of the following materials:** Leather gloves
- **Eye protection:** Safety glasses recommended during refilling.
- **Body protection:** job-related, normal protective clothing

9. Physical and chemical properties

· General Information

Form: Fluid

Colour: Yellow

Smell: Mild

Melting point/Melting range: Not determined

Boiling point/Boiling range: Not determined

- **Flash point:** Not determined.
- **Danger of explosion:** Product is not explosive.
- **Vapour pressure at 20°C:** 23 hPa
- **Density at 20°C** 1.1 g/cm³ (DIN 51757)
- **Solubility in / Miscibility with**
Water: Soluble
- **pH-value at 20°C:** 9.1 (DIN 51369)
- **Viscosity:**
kinematic at 20°C: 73 mm²/s

10. Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Materials to be avoided:** Avoid contact with strong oxidizing agents.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:** No dangerous decomposition products known

11. Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

Carbonic acid, aminsalt

Oral LD50 >500 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Not irritant.
- **on the eye:** Not irritant.
- **respiratory:** Not irritant.
- **Sensitization:** No sensitizing effect known.

· **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

According to applicable EU-law this product is not classified as irritant. However, in case of frequent skin contact and/or direct eye contact slight irritation is possible.

12. Ecological information

- **Ecotoxicological effects:**
- **Aquatic toxicity:** LC50 (fish) > 100 mg/l
- **Additional ecological information:**
- **General notes:**

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

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13. Disposal considerations

- **Product:**
- **Recommendation** Disposal in accordance with authority regulations.
- **European waste catalogue**
12 01 10 synthetic machining oils
- **Uncleaned packagings:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
- **Recommended cleaning agent:** hydrocarbon cleaner

14. Transport information

- **Maritime transport IMDG/GGVSea:**
- **Marine pollutant:** No
- **Transport/Additional information:** Not classified under ADR / IATA / IMDG

15. Regulatory information

- **Designation according to EC guidelines:**
Observe the normal safety regulations when handling chemicals.
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).
- **Special designation of certain preparations:**
Safety data sheet available for professional user on request.
- **National regulations**
- **Water hazard class:**
water hazard class 1 (VwVwS mixture regulation):slightly hazardous for water.

16. Other information

This safety-data-sheet is according to the following directives/regulations:

67/548/EC and 2004/73/EG (hazardous substances)

1999/45/EC and 2001/59/EC (hazardous preparations); TRGS 200 (Germany)

91/155/EC and 2001/58/EC (safety data sheet); TRGS 220 (Germany)

CONCAWE-Report No. 01/53 the classification and labelling of petroleum substances according to the EU dangerous substances directive.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. The product is intended only for commercial/industrial processing or application.

- **Relevant R-phrases**

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Department issuing data specification sheet:** Environment protection department.