

Material Safety Data Sheet

According to 2001/58 EC

Printing date 25.03.2003

Reviewed on 16.09.2002




1 Identification of substance:

- **Product details:**
- **Trade name:** Kleen-Kool 284
- **Application of the substance / the preparation** Coolant/ Cutting solution
- **Manufacturer/Supplier:**
DoALL Europa B.V. Tel. +31 (0)78-6526060
Debijestraat 14 Fax +31 (0)78-6184085
- 3316 GE Dordrecht
- **Information department:** DoALL Europa B.V.
- **Emergency information:** as above

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Preparation of ester oil, emulgators and anticorrosive agents

- **Dangerous components:**

Ricinusölethoxylat	 Xi; R 36/38	10-25%
Alkoholethoxilate	 Xn; R 22-36	2.5-10%
Alkoholethoxilate	 Xi; R 38	2.5-10%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard description:** not applicable
- **Classification system**
The classification was made according to the latest editions of the EC-lists, and expanded upon from company and literature data.
- **Additional information:**
The product has been tested for irritation. In accordance with the test results a declaration as "irritating" according to GefStoffV (Hazardous Goods Regulation) is not necessary.

4 First aid measures

- **After inhalation** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact**
Rinse with warm water.
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** If symptoms persist consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Carbon monoxide (CO)
- **Protective equipment:** Mount respiratory protective device.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Person-related safety precautions:** Prevent skin and eye contact

(Contd. on page 2)

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(Contd. of page 1)

- **Measures for environmental protection:**
Prevent seepage into sewage system, workpits and cellars.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 Handling and storage

- **Handling**
- **Information for safe handling:** Prevent skin and eye contact
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Observe all storage regulations
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from frost and direct sunlight.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Avoid close or long term contact with the skin.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:** Protective gloves.
- **Material of gloves:** Nitrile rubber, NBR
- **Penetration time of glove material**
Nitrile: thick 0,4 mm, break trough time > 240 min.
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed goggles.
- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· General Information

Form:	Fluid
Colour:	Yellow medium brown
Odour:	Characteristic

· Change in condition

Melting point/Melting range: undetermined
Boiling point/Boiling range: undetermined

· **Flash point:** Not applicable

· **Self igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

(Contd. on page 3)

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(Contd. of page 2)

· Density at 20°C:	1.00 g/cm ³ (DIN 51757)
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· Solubility in / Miscibility with Water:	Fully miscible
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· pH-value (100 g/l) at 20°C:	9.2 (DIN 51369)
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10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:** Strong oxidizers
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** Carbon monoxide

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:**
Prolonged and/or repeated skin contact may defat skin and possibly cause dermatitis
The product has been tested for irritation. In accordance with the test results a declaration as "irritating" according to GefStoffV (Hazardous Goods Regulation) is not necessary.
- **on the eye:**
Low, reversible irritation.
The product has been tested for irritation. In accordance with the test results a declaration as "irritating" according to GefStoffV (Hazardous Goods Regulation) is not necessary.
- **Sensitization:** No sensitizing effects 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.

12 Ecological information:

- **General notes:**
Water hazard class 1 (German Regulation 17.05.1999) (Self-assessment): slightly hazardous for water.
Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key:** 120109
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· Land transport ADR/RID (cross-border)	
· ADR/RID class:	-

· Maritime transport IMDG:	
· IMDG Class:	-
· Marine pollutant:	No

(Contd. on page 4)

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(Contd. of page 3)

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

· **Transport/Additional information:** Not dangerous according to the above specifications.

* 15 Regulations

- **Markings according to EU guidelines:** Observe the general safety regulations when handling chemicals
- **National regulations**
- **Water hazard class:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
Observe regulations relating to TRGS 611 - free of amines

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**
22 Harmful if swallowed.
36 Irritating to eyes.
36/38 Irritating to eyes and skin.
38 Irritating to skin.

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