

# EC Material Safety Data Sheet

## according to EC 91/155

Date of issue: 16.12.2005

Reviewed on 14.12.2005




### 1 Identification of substance:

- **Product details:**
- **Trade name:** Dismoclean 28 alka one
- **SAP-Code:** GB R10192
- **Application of the substance / the preparation** Cleaning agent/ Cleaner
- **Manufacturer/Supplier:**  
BODE Chemie GmbH & Co.  
Melanchthonstraße 27  
D-22525 Hamburg (Germany)  
Tel.: +49 (0)40 / 54 00 60
- **Informing department:** Department Research and Development
- **Emergency information:**  
Giftnotruf Göttingen (Germany)  
Tel.: +49 (0)551 / 1 92 40

### 2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with harmless additions.

- **Dangerous components:**

CAS: 7778-53-2	Trikaliumphosphat	 Xi; R 36/38	10-25%
CAS: 1312-76-1	potassium silicate	 C; R 34-37	10-25%
CAS: 5064-31-3 EINECS: 225-768-6	trisodium nitrilotriacetate	 Xn; R 22-36	5-10%

- **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

NTA (nitrilotriacetic acid) and salts thereof, phosphates	5 - 15%
amphoteric surfactants	< 5%

### 3 Hazards identification

- **Hazard designation:**



C Corrosive

- **Information pertaining to particular dangers for man and environment**  
R 34 Causes burns.
- **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.

### 4 First aid measures

- **General information** Instantly remove any clothing soiled by the product.
- **After skin contact**  
Instantly wash with water and soap and rinse thoroughly.  
Call a doctor immediately.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**  
Rinse out mouth and then drink plenty of water.

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*Do not induce vomiting; instantly call for medical help.*

### 5 Fire fighting measures

- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**  
Do not allow to enter drainage system, surface or ground water.  
Dilute with much water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.

### 7 Handling and storage

- **Handling**
- **Information for safe handling:** Open and handle container with care.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:** Store only in the original container.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

### 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.
- **Personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures should be adhered to in handling the chemicals.  
Keep away from foodstuffs, beverages and food.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:**  
Protective gloves.  
Only use chemical-protective gloves with CE-labelling of category III.  
Check protective gloves prior to each use for their proper condition.  
After use of gloves apply skin-cleaning agents and skin cosmetics.
- **Material of gloves**
  1. Nitrile rubber, NBR
  2. Butyl rubber, BR

Recommended thickness of the material: 1. 0.4 mm / 2. 0.7 mm

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- **Penetration time of glove material**  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **As protection from splashes gloves made of the following materials are suitable:**
  1. Nitrile rubber, NBR
  2. Butyl rubber, BR
- **Not suitable are gloves made of the following materials: PVA gloves**
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

### 9 Physical and chemical properties:

#### · General Information

<b>Form:</b>	fluid
<b>Colour:</b>	yellowish
<b>Smell:</b>	Characteristic

#### · Change in condition

**Melting point/Melting range:** not determined  
**Boiling point/Boiling range:** ca. 100°C

· **Flash point:** Not applicable

· **Self-inflammability:** product is not selfigniting

· **Danger of explosion:** product is not explosive

· **Density at 20°C** 1.42 g/cm<sup>3</sup>

· **Solubility in / Miscibility with Water:** fully miscible

· **pH-value (10 g/l) at 20°C:** 12.0

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** Exothermic reaction with acids
- **Dangerous products of composition:** No dangerous decomposition products known.

### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
  - **on the skin:** Caustic effect on skin and mucous membranes.
  - **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:  
Corrosive  
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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### 12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:**  
The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
- **Additional ecological information:** -

### 13 Disposal considerations

- **Product:**
- **Recommendation** Must be specially treated under adherence to official regulations.
- **Uncleaned packagings:**
- **Recommendation:**  
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

### 14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**



- **ADR/RID-GGVS/E Class:** 8 (C5) Corrosive substances.
- **Kemler Number:** 80
- **UN-Number:** 1719
- **Packaging group:** III
- **Label:** 8
- **Designation of goods:** 1760 CORROSIVE LIQUID, N.O.S. (potassium silicate)

- **Maritime transport IMDG/GGVSea:**



- **IMDG/GGVSea Class:** 8
- **UN Number:** 1719
- **Label:** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Marine pollutant:** No
- **Correct technical name:** CAUSTIC ALKALI LIQUID, N.O.S. (potassium silicate)

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



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 1719
- **Label:** 8
- **Packaging group:** III

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· **Correct technical name:** *CAUSTIC ALKALI LIQUID, N.O.S. (potassium silicate)*

## 15 Regulatory information

· **Designation according to EC guidelines:**

*The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV).*

· **Code letter and hazard designation of product:**



C Corrosive

· **Hazard-determining components of labelling:**

*potassium silicate*

· **Risk phrases:**

34 Causes burns.

· **Safety phrases:**

26 *In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*

36/37/39 *Wear suitable protective clothing, gloves and eye/face protection.*

45 *In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).*

· **National regulations**

...

## 16 Other information:

*These data are based on our present knowledge. However, they 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.*

34 *Causes burns.*

36 *Irritating to eyes.*

36/38 *Irritating to eyes and skin.*

37 *Irritating to respiratory system.*