

Trade name: Cleaner D

Version: 6.0.0 / GB

Status: 20.01.2010

Date of printing: 20.01.2010

## 1.) Identification of the substance/preparation and of the company/undertaking

### Identification of the substance or preparation

Trade name

**Cleaner D**

Order No. 7025-6035-0231

Use of the substance/preparation

Solution for flame photometers

### Company/undertaking identification

Address

EKF diagnostic GmbH  
 Ebendorfer Chaussee 3  
 D-39179 Barleben

Telephone no. +49 (0)3 92 03 / 7 85 - 0

Fax no. +49 (0)3 92 03 / 7 85 - 16

Information provided by / telephone

EKF diagnostic GmbH  
 Telephone: +49 (0)39203 / 785 - 0 (7 am - 4 pm on workdays)

Emergency telephone

+49 (0) 551 / 19240 Poison Information Centre North(Giftinformationszentrale Nord)

Advice on Safety Data Sheet

support@ekf-diagnostic.de

## 2.) Hazards identification

Classification

Xi; R36/38 Irritating to eyes and skin.

Hazard symbols

Xi Irritant

R phrases

36/38 Irritating to eyes and skin.

## 3.) Composition / information on ingredients

Chemical characterization

Mixture (preparation)

Hazardous ingredients

**SODIUM HYDROXIDE**

EC no. 215-185-5 Index no. 011-002-00-6 CAS no. 1310-73-2

Concentration &gt; 1 &lt; 5 %-b.w.

Classification C; R35

Hazard symbols C R phrases 35

## 4.) First aid measures

General information

In case of persisting adverse effects, consult a physician. If the patient is likely to become unconscious, place and transport in stable sideways position. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

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**After inhalation**

Ensure supply of fresh air.

**After skin contact**

In case of contact with skin wash off immediately with copious amounts of water. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Eye treatment by an oculist.

**After ingestion**

Rinse mouth thoroughly with water. Drink plenty of water. Do not induce vomiting.

**5.) Fire-fighting measures****Suitable extinguishing media**

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide and smoke.

**Special protective equipment for fire-fighters**

Use self-contained breathing apparatus. Wear protective clothing.

**Other information**

Fire residues and contaminated firefighting water must be disposed off in accordance with the local regulations.

**6.) Accidental release measures****Personal precautions**

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing.

**Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**Methods for cleaning up/taking up**

Pick up with absorbent material (e.g., sand, kieselguhr, acid binder, universal binder, sawdust). Send in suitable containers for recovery or disposal.

**7.) Handling and storage****Handling****Advice on safe handling**

Avoid contact with skin and eyes. Keep container tightly closed.

**Storage****Requirements for storage rooms and vessels**

Keep the product in the original packing.

**Advice on storage assembly**

Do not store together with:

Acids

Metals

Oxidizing agents

**Further information on storage conditions**

Keep container tightly closed and dry.

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## 8.) Exposure controls / personal protection

### Exposure limit values

#### SODIUM HYDROXIDE

CAS no.	1310-73-2
EC no.	215-185-5

#### List of approved workplace exposure limits (WELs) / EH40

Sodium hydroxide			
STEL	2	mg/m <sup>3</sup>	

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn.

#### Hand protection

Nitril protective gloves (rotiprotect Nitril, AQL 1,5; Carl Roth GmbH & Co.)

#### Eye protection

Tightly fitting safety glasses (EN 166).

#### Skin protection

Clothing as usual in the chemical industry.

#### General protective and hygiene measures

Do not eat, drink or smoke during work time. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. After worktime and during work intervals the affected skin areas must be thoroughly cleaned. Use barrier skin cream.

## 9.) Physical and chemical properties

### General information

Form	liquid
Colour	colourless, clear
Odour	odourless

### Important health, safety and environmental information

#### Changes in physical state

Type	Boiling point		
Value	> 100	°C	

#### Vapour pressure

Value	<	23,4	hPa
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#### Density

Value		1,07	g/cm <sup>3</sup>
Reference temperature	20	°C	

#### Solubility in water

Remarks	soluble
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#### pH value

Value	appr.	11,6
Reference temperature	20	°C
Concentration	20	g/l

## 10.) Stability and reactivity

### Conditions to avoid

Heat

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**Materials to avoid**

Metals; Oxidizing agents; Acids; Reactions with light metals, with evolution of hydrogen.

**Hazardous decomposition products**

None, if handled according to order

**11.) Toxicological information**

**Experience in practice**

Influence of the product with the eyes can lead to blindness.  
Irritating effects on the skin and mucous membrane.  
Has a degreasing effect on the skin.

**Other information (chapter 11.)**

Product specific toxicological data are not known.

**12.) Ecological information**

**Other adverse effects**

Do not allow to enter soil, waterways or waste water canal.  
There are no data available on the preparation itself.

**13.) Disposal considerations**

**Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.  
Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

**14.) Transport information**

**Land transport ADR/RID**

Class	8	Classification code	C5
Packing group	II		
Hazard identification no.	80		
Label	8		
UN number	1824		
Technical name	Sodium hydroxide solution		

**Marine transport IMDG**

Class	8
Packing group	II
UN number	1824
Proper shipping name	Sodium hydroxide, solution
EmS	F-A, S-B
MARPOL	--
Label	8

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**Air transport ICAO/IATA**

Class	8
Packing group	II
UN number	1824
Proper shipping name	Sodium hydroxide, solution
Label	8

**15.) Regulatory information****Labelling in accordance with EC directives**

The product is classified and labelled in accordance with EC Directive 1999/45/EC.

**Hazard symbols**

Xi Irritant

**Hazardous component(s) to be indicated on label, contains:**

SODIUM HYDROXIDE

**R phrases**

36/38 Irritating to eyes and skin.

**S phrases**

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

**Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances**

Remarks Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10.

**16.) Other information****Sources of key data used to compile the data sheet:**

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.  
Regulation (EC) No 1907/2006 (REACH) as amended in each case.  
EC Directives 2000/39/EC, 2006/15/EC as amended in each case.  
National Threshold Limit Values of the corresponding countries as amended in each case.  
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.  
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

**Relevant R-phrases (chapter 3):**

35 Causes severe burns.

**Department issuing safety data sheet**

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This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.