

## Safety Data Sheet according to EEC-Regulation 91/155/EEC

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

#### Identification of the substance or preparation

#### Renosan Stikkenwagenreiniger

#### Use of the substance/preparation

Cleaner

#### Company/undertaking identification

Renosan GmbH, Albert-Einstein-Str. 6, D -86899, Landsberg a. Lech

Telephone 08191/2 11 00, Fax 08191/54 59

#### Emergency telephone / Office for advice

#### Advisory office in case of poisoning:

Tel.: +49 89 / 19240

#### Telephone number of the company in case of emergencies:

Tel. ---

### 2. Composition/information on ingredients

2.1 Chemical name	content %	symbol	R-phrases	CAS	EINECS, ELINCS
Potassium hydroxide	2,5 - 5	Xn/C	22-35		215-181-3
Sodium hydroxide	25 - 30	C	35		215-185-5
Silicic acids, Potassium salt	2,5	Xi	36/38		215-687-4

For complete wording of the R-phrases, refer to point 16.

### 3. Hazards identification

#### 3.1 To people

See point 11 and 15.

Preparation is classified as hazardous in the sense of directive 1999/45/EG.

Causes heavy corrosive burns.

#### 3.2 To the environment

See point 12.

### 4. First aid measures

#### 4.1 Inhalation

Supply person with fresh air and consult doctor according to symptoms.

Remove person from danger area.

If the person is unconscious, place in a stable side position and consult a doctor.

#### 4.2 Eye contact

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

#### 4.3 Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

#### 4.4 Ingestion

Give copious water to drink - consult doctor immediately.

Keep Data Sheet available.

Supply person with fresh air.

#### 4.5 Special resources necessary for first aid

Eye-rinse bottle

### 5. Fire-fighting measures

### 5.1 Suitable extinguishing media

Adapt to the nature and extent of fire.

CO<sub>2</sub>

Extinguishing powder

Water jet spray

Large fire:

Water jet spray

Alcohol resistant foam

### 5.2 Extinguishing media which must not be used for safety reasons

n.g.

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

In case of fire the following can develop:

Gases hazardous to health

Corrosive gases

### 5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply

### 5.5 Further information

Dispose of contaminated extinction water according to official regulations.

## 6. Accidental release measures

Refer to point 13. and for personal protection refer to point 8.

### 6.1 Personal precautions

Danger - risk of slipping.

Avoid inhalation, and contact with eyes or skin.

### 6.2 Environmental measures

If leakage occurs, dam up.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

### 6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

## 7. Handling and storage

### 7.1 Handling

#### Tips for safe handling:

See point 6.1

Observe directions on label and instructions for use.

Only use working methods according to operating instructions.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Ensure good ventilation.

Wash hands before breaks and at end of work.

### 7.2. Storage

#### Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.

Store products only unopened, in original packing.

Do not use alkali sensitive materials.

Alkali-resistant floor necessary.

Store separately from acids.

#### Special storage conditions:

See point 10.2

## 8. Exposure controls/personal protection

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the OES, MEL or MAK values, suitable breathing protection should be worn.

Only applies when exposure limits are listed in this section.

Chemical name	content %	OES, MEL, MAK, TRK	BMGV, BAT
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8.1 Respiratory protection:

8.2 Hand protection:

Protective Neopren gloves (EN 374).

Safety gloves made of butyl (EN 374)

Protective hand cream recommended.

8.3 Eye protection:

Tight fitting protective goggles with side protection (EN 166).

Face protection (EN 344)

8.4 Skin protection:

Alkali-resistant protection clothing (EN 368/9)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 9. Physical and chemical properties

Physical state:	Liquid
Colour:	Colourless
Odour:	Characteristic
pH-value undiluted:	> 12/20°C
Boiling point / range (°C):	~ 100°C
Melting point / range (°C):	k.D.v.
Flash point (°C):	n.a.
Autoflammability:	Not combustible.
Minimum limit of explosion:	n.a.
Maximum limit of explosion:	n.a.
Vapour pressure:	~ 20 hPa/20°C
Relative density (g/ml):	~ 1,4/20°C
Solubility in water:	Soluble
Partition coefficient (n-octanol/water):	n.g.

## 10. Stability and reactivity

### 10.1 Conditions to avoid

See point 7

Stable when handled and stored correctly.

### 10.2 Materials to avoid

See point 7

Contact with strong acids leads to strong exothermic reaction.

Combustible materials

### 10.3 Hazardous decomposition products

See point 5.3

## 11. Toxicological information

### 11.1 Acute toxicity and immediate effects

11.1.1 Ingestion, LD50 rat oral (mg/kg):	k.D.v.
11.1.2 Inhalation, LC50 rat inhal.(mg/l/4h):	k.D.v.
11.1.3 Skin contact, LD50 rat dermal (mg/kg):	See point 15.
11.1.4 Eye contact:	See point 15.

### 11.2 Delayed and chronic effects

11.2.1 Sensitization:	k.D.v.
11.2.2 Carcinogenicity:	k.D.v.

11.2.3 Mutagenicity: k.D.v.  
11.2.4 Reproductive toxicity: k.D.v.  
11.2.5 Narcosis: k.D.v.

### 11.3. Further information

Classification according to calculation procedure.  
Corrosive burns on skin as well as mucous membrane possible.  
35 Causes severe burns.  
Risk of serious damage to eyes.  
Oesophageal perforation  
Gastric perforation

## 12. Ecological information

Water hazard class: 1  
Self classification: Yes (VwVwS)  
Persistence and degradability: Neutralisation possible.  
Behaviour in sewage plants: Do not pour down the drain undiluted.  
Aquatic toxicity: High pH-value can be harmful to water.  
Ecological toxicity: n.v.

## 13. Disposal considerations

### 13.1. for the material / preparation / residue

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.  
Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

20 01 29 - detergents containing dangerous substances

Recommendation:

Pay attention to local and national official regulations

Neutralisation possible by an expert.

E.g. dispose at suitable refuse site.

Do not dispose of with household waste.

### 13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

Recommended cleaner:

Water

## 14. Transport information

### General statements

UN-Number: 1824

### Road/Rail-transport (ADR/RID)

Class/packing-group: 8/II

UN 1824 SODIUM HYDROXIDE, SOLUTION

Classification code: C5

LQ: 22

### Transport by sea

IMDG-code: 8/II (class/packing-group)

EmS: F-A, S-B

Marine Pollutant: n.a.

SODIUM HYDROXIDE, SOLUTION

### Transport by air

IATA: 8/-/II (class/secondary danger/packing-group)

Sodium hydroxide solution

### Additional information:

**Minimum amount regulations have not been taken into account.**

Danger code and packing code on request.

## 15. Regulatory information

# **Classification according to Dangerous Product Regulations incl. EC Guidelines (67/548/EEC and 1999/45/EC)**

Symbols: C

Indications of danger:

Corrosive

R-phrases:

35 Causes severe burns.

S-phrases:

20 When using do not eat or drink.

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

35 This material and its container must be disposed of in a safe way.

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).

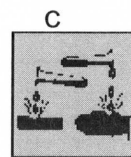
Additions:

Potassium hydroxide

Sodium hydroxide

Observe restrictions:

Yes



## **16. Other information**

These details refer to the product as it is delivered.

Revised points:

n.a.

22 Harmful if swallowed.

35 Causes severe burns.

36/38 Irritating to eyes and skin.

## **Legend:**

n.a. = not applicable / n.v., k.D.v. = not available / n.g. = not checked / OES = Occupational exposure standard  
MEL = Maximum exposure limit / BMGV = Biological monitoring guidance value / MAK = Maximum concentration for work place (Germany) / TRK = Technical guidance concentration (Germany) / BAT = Biological tolerance for work place (Germany)  
VbF = Regulations for flammable liquids (Germany) / TRbF = Technical regulations for flammable liquids (Germany)  
WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water  
VOC-CH=Volatile organic compounds(VOCV - Switzerland)/AOX=Adsorbable organic halogen compounds  
VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

**Chemical Check GmbH, Beim Staumberge 3, D-32839 Steinheim, Tel.: 01805-CHEMICAL / 01805-243 642, Fax: 05233-941790**

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