

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Rational speciaalreiniger

Print date: 30.03.2011

Revision date: 05.05.2009

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1. Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Rational speciaalreiniger

Use of the substance/mixture

Cleaning agent.

Company/undertaking identification

Company name: Rational Nederland Grootkeuken Techniek
Street: Twentepoort West 7
Place: NL-7609 RD Almelo
Telephone: 0546- 546000 Telefax: 0546- 546099
Internet: www.rational.nl
Responsible Department: a.lunter@rational.nl
Emergency telephone: GB:National poison centre, USA: Emergency Tel. No. 1-800 535 5053 (tollfree),
from outside USA: +001 352 323 3500 or a National Poison Control centre

2. Hazards identification

Classification

Indications of danger : Corrosive

R-phrases:

Causes severe burns.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Hazardous components

EC No.	CAS No.	Chemical name	Quantity	Classification
215-181-3	1310-58-3	potassium hydroxide	5-10 %	Xn, C R22-35
		non-ionic surfactant	1-5 %	Xn, Xi, N R22-41-50

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures

After inhalation

not applicable

After contact with skin

After contact with skin, wash immediately with: Water.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Consult physician immediately.

Advice to doctor

Treat symptomatically.

5. Fire-fighting measures

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Suitable extinguishing media

Water fog. Water. Foam.

Extinguishing media which must not be used for safety reasons

none / none

Special exposure hazards arising from substance or mixture itself, combustion products, resulting gases

none / none

Special protective equipment for fire-fighters

none / none

6. Accidental release measures

Personal precautions

Wear personal protection equipment. See protective measures under point 7 and 8.

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods for cleaning up/taking up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

7. Handling and storage

Handling

Advice on safe handling

All working processes must always be organised so that the following can be ruled out: skin contact.
Eye contact.

Storage

Requirements for storage rooms and vessels

No special technical protective measures are necessary.

Storageclass (VCI, D):

8B

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

CAS No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
1310-58-3	Potassium hydroxide	-	-		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

Exposure controls

Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace.

Respiratory protection

If product is splashed or sprayed in high concentrations or in case of insufficient ventilation adequate masks and filters suitable for dusts / aerosols (P2) are recommended.

Hand protection

Type of chemical protective gloves to choose depends on the concentration and quantity of dangerous substances as well as on work place specifications. When handling chemical substances, chemical protective gloves must be worn with CE label including a four digit code. In case of reutilization, clean gloves before taking off and store in well-aired place.

Duration of wearing with occasional contact (splashes): Duration of wearing with permanent contact:

Suitable material:

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Butyl rubber.FKM (Fluoroelastomer (Viton)). NBR (Nitrile rubber). CR (polychloroprenes, Chloroprene rubber). NR (Natural rubber (Caoutchouc), Natural latex). PVC (Polyvinyl chloride).
In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Eye protection

Suitable eye protection: Framed glasses. Tightly sealed safety glasses. EN 166

Skin protection

Take off immediately all contaminated clothing.

9. Physical and chemical properties

General information

Physical state:	liquid
Colour:	orange
Odour:	characteristic

Important health, safety and environmental information

	Test method
pH-Value (at 20 °C):	ca. 14
Changes in the physical state	
Flash point:	not applicable
Oxidizing properties	
none / none	
Density (at 20 °C):	1,4 g/cm ³
Water solubility: (at 20 °C)	easily soluble.

10. Stability and reactivity

Materials to avoid

Reacts with : acid, concentrated.

11. Toxicological information

Acute toxicity

Acute toxicity, oral LD50: calculated. mg/kg bw: > 3300 mg/kg

Irritation and corrosivity

corrosive.

Further information

Acute toxicity, irritation of the skin and mucous mebrane, and mutagenic potential of the preparation were assessed by the manufacturer on the basis of the data available on the main components. Information gaps exist on some of the main individual components. However, according to the experience of the manufacturer, no dangers above and beyond those on the product label are to be expected. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

12. Ecological information

Other adverse effects

due to the alkaline character of the product, usually, it has to be neutralized before contaminated effluents are introduced into the waste water treatment system.

Further information

The evaluation was carried out according to the calculation method of the Preparations Directive.

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13. Disposal considerations

Advice on disposal

Consult the local waste disposal expert about waste disposal.

Waste disposal number of waste from residues/unused products

200115 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); alkalines
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Completely emptied packings can be re-cycled.
Waste disposal according to official state regulations.

14. Transport information

Land transport (ADR/RID)

UN number: 1814
ADR/RID class: 8
Warning plate
Hazard-no.: 80
ADR/RID packing group: II

Description of the goods

Kaliumhydroxidlösung

Marine transport

Marine pollutant: no
EmS: F-A, S-B

Description of the goods

POTASSIUM HYDROXIDE, SOLUTION

15. Regulatory information

Labelling

Danger symbols: C - Corrosive



C - Corrosive

Hazardous components which must be listed on the label

potassium hydroxide

R phrases

35 Causes severe burns.

S phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where

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- possible).
- 27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of Water. .
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Additional advice on labelling

Product is classified and labelled in accordance with EC regulations or the corresponding national laws.

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

- 22 Harmful if swallowed.
- 35 Causes severe burns.
- 41 Risk of serious damage to eyes.
- 50 Very toxic to aquatic organisms.