

Trade name: RATIONAL Grill cleaner

Product no: 9006.0153

Date: 14.02.2002

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(GB)

1. Name of Substance / Formulation & Name of Company**Product details**

Trade name: RATIONAL Grill cleaner

Manufacturer / Supplier details

Address: RATIONAL AG
 Iglingerstraße 62
 D-86899 Landsberg/Lech
 Tel.: 08191/3270

Emergency telephone no.: "Rechts der Isar" international poisons centre 0049 (0)89 19240 Product.no:202

2. Composition / Details of Ingredients

Chemical characterisation: Formulated from a mixture of potassium hydroxide, emulsifier, amphoteric and non-ionic surfactants, demineralised water and colouring.

Ingredients

Content CAS no.
 < 10% 1310-58-3
 > 50% 7732-18-5

Symbols
 C

R phrases
 22-35

Substance
 Potassium hydroxide
 Water

3. Potential Risks**Danger Symbols**

Corrosive

R phrases: 35

Causes severe burns

4. First Aid Measures**General:**

Remove soiled clothing. Seek medical attention.

On inhalation:

If inhaled, keep quiet, fresh air, seek medical attention.

On contact with the skin:

Clean affected areas immediately and thoroughly with plenty of soap and water; apply sterile dressings. Consult a skin specialist.

On contact with the eyes:

Rinse the eye thoroughly with running water, holding the eyelid away from the eyeball (protect unaffected eye, remove contact lenses). Consult an eye specialist.

If swallowed:

If swallowed, rinse out mouth immediately and drink plenty of water. Seek medical attention. Avoid vomiting.

Information for the doctor**Symptoms:**

Glottis oedema; skin necrosis; possibility of foam inhalation if vomiting occurs.

Effects:

Has a highly corrosive effect of the skin and mucous membranes. Causes deep skin necrosis in concentrated form. Particularly hazardous for the eyes (can cause blindness). Dilute as quickly as possible.

Treatment:

Treat for pain and shock. Any corrosive injury to the eyes must be treated immediately in a specialist eye hospital.

5. Fire-Fighting Measures**Suitable extinguishers:**

All known extinguishers may be used. Combat surrounding fire with suitable extinguishers.

Specific risk from the substance or product itself, its combustion waste products or gases released:

Fire may release carbon monoxide (CO); nitrous gases (NOx)

6. Measures in the Event of Accidental Release**Personal safety measures:**

Wear personal protective clothing. Particular risk of slipping if product leaks or is spilt.

Environmental safety measures:

Contain contaminated water / extinguishing water.

Cleaning procedure:

Soak up with absorbent materials (e.g. universal binder). Flush away small quantities with water.

Safety data sheet (according to EC directive 2001/58/EC)**RATIONAL AG**

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7. Handling and Storage

Special procedures required for safe usage:	Only use alkali-resistant equipment. Avoid the formation of aerosol mists.
Protection against fire and explosion:	The product is not combustible.
Storage area and container requirements:	Use polyethylene containers.
Information on combined storage areas:	Do not store together with acids.
Further storage information:	Maximum temperature during storage and transportation: 5 °C

8. Exposure Restrictions & Personal Protective Equipment

Ingredients with workplace-related limits that require monitoring

Health risks at the workplace

MAK values of ingredients from section 2

Designation of substance	CAS no.	ml/m ³ (ppm)	mg/m ³	Fibres/m ³	Type
Potassium hydroxide	1310-58-3				
Water	7732-18-5				

General protection and hygiene measures

Avoid direct contact with eyes, skin or clothing. Wear close-fitting protective clothing. Wear alkali-resistant protective clothing.

Personal protective equipment**Breathing apparatus:** If breathing apparatus is worn, particle filter.**Hand protection:** Wear nitrile or rubber gloves.**Eye protection:** Wear tightly-sealing safety goggles.**9. Physical & Chemical Properties**

Appearance:	Form:	Liquid	Odour:	Odourless
	Colour	Red		
Specific gravity:	at 20 °C	1.103 g/ml		
Boiling point:	at 1013 mbar	>100 °C		
Solubility in water:	at 20 °C	Miscible mg/l		
Solubility in organic solvents (at 20 °C)				
Miscible with water-miscible organic solvents, e.g. ethanol or acetone				
Evaporation rate:	(Ether = 1)	0		
Odour threshold:	Odourless	mg/m ³		
pH of substance	at 20 °C	13 - 14		

10. Stability & Reactivity

Dangerous reactions:	Above 84 °C, reacts with reducing sugars giving off CO.
Reaction with materials:	In high concentrations, dissolves in and breaks down organic tissue (cotton, wool, silk, leather, linen, skin, etc)
Reacts with:	Carbon dioxide from the air
Reacts violently with:	Acids

11. Toxicological Information

Highly caustic effect on the skin, eyes and mucous membranes. Highly caustic effect on the mouth and throat if swallowed.
Risk of perforation of the oesophagus and stomach.

12. Ecological Information

General:	Harmful effect due to change in pH to the alkaline range from pH = 9. Must be diluted or neutralised before it is allowed to enter the waste water or drainage system. The product biodegrades easily, > 85%
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Safety data sheet (according to EC directive 2001/58/EC)

RATIONAL AG

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13. Information on Disposal

Information on disposal

Product:

Dispose of as hazardous waste. Small quantities may be diluted with plenty of water and flushed away. Thoroughly clean contaminated objects and floors.

Packaging:

Contaminated packaging should be emptied as completely as possible. If it is cleaned appropriately it may then be reused.

Further information:

Do not pour into drain or dustbin. Empty container completely before disposal and rinse out with water.

14. Transport Regulations

Transport by road

GGVS/ADR/RID:

UN 1814 Potassium hydroxide solution , 8 , II.

Technical designation for dispatch: Potassium hydroxide solution

15. Regulations

Labelling information:

R phrases: 35

Danger Symbols



Corrosive

The product is classified and labelled according to EU Directive 2001/58/EC.

Causes severe burns

S phrases: 1/2

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37/39

45

Keep locked up and out of the reach of children.

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

Wear suitable protective gloves and safety goggles / face mask during work.

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

German incidents directive
VbF classification (Germany):

Water risk category:

Classification according to
technical regulations for
prevention of air pollution
(Germany):

of 2000

N/A

Water risk no.: 4

WGK: 1

To be handled as total airborne dust: max. permitted emissions: mass flow rate > 0.5 kg/h: 50 mg/m³, mass flow rate ≤ 0.5 kg/h: 0.15 g/m³

16. Other Information

Contact

Mr Funk