

Trade name: RATIONAL Grill cleaner  
Product no: 9006.0153

Date: 21.04.2005

80.00.193  
Page: 1(3)

(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.	Symbols	R phrases	Substance
< 10%	1310-58-3	C	22-35	Potassium hydroxide
> 50%	7732-18-5			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.

Trade name: RATIONAL Grill cleaner  
 Product no: 9006.0153

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80.00.193  
 Page: 2(3)

## 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:** Minimum 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 <sup>3</sup> (ppm)	mg/m <sup>3</sup>	Fibres/m <sup>3</sup>	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  
 Colour: Red  
 Odour: Odourless

**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<sup>3</sup>

**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%

Trade name: RATIONAL Grill cleaner  
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80.00.193  
Page: 3(3)

### 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**

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

**Danger Symbols**



Corrosive

**S phrases: 1/2  
26  
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):**

of 2000

**Water risk category:  
Classification according to  
technical regulations for  
prevention of air pollution  
(Germany):**

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/m<sup>3</sup>, mass flow rate ≤ 0.5 kg/h: 0.15 g/m<sup>3</sup>

### 16. Other Information

**Contact**  
Mr Funk