

Material Safety Data Sheet

According to 91/155 EC

Printing date 16.04.2003

Reviewed on 16.04.2003

1 Identification of substance:

· **Product details:**

- **Trade name:** RATIONAL Special cleaner for RATIONAL CleanJet® and manuel cleaning
- **Application of the substance / the preparation** Alkaline cleaner/ detergent

· **Manufacturer/Supplier:**

RATIONAL AG
Iglinger Straße 62
D-86899 Landsberg



Tel.: +49-(0)8191 - 32 70

· **Informing department:** Qualitätsmanagement

· **Emergency information:**

Internationale Giftzentrale Tel.: +49-(0)89-19240
"Rechts der Isar"

2 Composition/Data on components:

· **Chemical characterization**

- **Description:** Mixture of the substances listed below with harmless products.

· **Dangerous components:**

CAS: 1344-09-8 EINECS: 215-687-4	Silicic acid, sodium salt	Xn; R 22-37/38-41	< 2.5%
CAS: 68188-18-1 EINECS: 269-144-1	sodium alkylsulfonate	Xi; R 36/38	< 2.5%
CAS: 1310-58-3 EINECS: 215-181-3 EC Number: 019-002-00-8	potassium hydroxide	C; R 22-35	< 2.5%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· **Hazard designation:**



Xi Irritant

· **Information pertaining to particular dangers for man and environment**

R 36/38 Irritating to eyes and skin.

· **Classification system**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

4 First aid measures

- **General information** Instantly remove any clothing contaminated by the product.

- **After inhalation** No special measures required.

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

· **After swallowing**

Rinse out mouth and then drink plenty of water.

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In case of persistent symptoms consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** None
- **Special hazards caused by the material, its products of combustion or flue gases:**
Sulphur dioxide (SO₂)
- **Protective equipment:** Put on breathing apparatus.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

- **Person-related safety precautions:** Avoid skin and eye contact.
- **Measures for environmental protection:**
Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 Handling and storage

- **Handling**
- **Information for safe handling:** Avoid skin and eye contact.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:**
Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with critical values that require monitoring at the workplace:**

1310-58-3 potassium hydroxide

OES (Great Britain) Short-term value: 2 mg/m ³

- **Additional information:** The lists that were valid during the compilation were used as basis.

- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Instantly remove any contaminated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:**
Protective gloves.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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