

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.01.2011


Version number 4


Revision: 06.01.2011

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

- **Product identifier**
- **Trade name:** RATIONAL Special cleaner soft for RATIONAL CleanJet® and hand cleaning
- **Article number(s):** 9006.0136
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** Alkaline cleaner / detergent
- **Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**
Rational AG
Iglinger Straße 62
D-86899 Landsberg
Tel.: ++49-(0)8191 - 32 70
Fax: ++49-(0)8191 - 21735
- **E-mail address of the competent person responsible for the Safety Data Sheet:** sdb@csb-online.de
- **Informing department:** Quality management
- **Emergency telephone number:**
Internationale Giftzentrale Tel.: +49-(0)89-19240
"Rechts der Isar"

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 Xi; Irritant
R36/38: 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.

- **Label elements**
- **Labelling according to EU guidelines:**
The product has been classified/labelled in accordance with EC Directives / relevant national laws.
- **Code letter and hazard designation of product:**
 Xi Irritant
- **Risk phrases:**
36/38 Irritating to eyes and skin.
- **Safety phrases:**
2 Keep out of the reach of children.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37 Wear suitable gloves.
46 If swallowed, seek medical advice immediately and show this container or label.
56 Dispose of this material and its container to hazardous or special waste collection point.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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· **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 68604-71-7 EINECS: 271-704-5	Disodium cocoamphodipropionate ☒ Xi R36/38 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	2.5-10%
CAS: 1310-58-3 EINECS: 215-181-3 Index number: 019-002-00-8	Potassium hydroxide ☒ C R35; ☒ Xn R22 ⚠ Skin Corr. 1A, H314 ⚠ Acute Tox. 4, H302	< 2.0%
CAS: 1312-76-1 EINECS: 215-199-1	Silicic acid, potassium salt ☒ Xi R38-41 ⚠ Eye Dam. 1, H318 ⚠ Skin Irrit. 2, H315	< 2.5%
CAS: 68188-18-1 EINECS: 269-144-1	Sodium alkylsulfonate ☒ Xi R36/38 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.5%
CAS: 70592-80-2 EINECS: 274-687-2	Amines, C10-16-alkyldimethyl, N-oxides ☒ Xi R38-41; ☒ N R50 ⚠ Eye Dam. 1, H318 ⚠ Aquatic Acute 1, H400 ⚠ Skin Irrit. 2, H315	< 2.5%

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

4 First aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing contaminated by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **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.
If swallowed, seek medical advice immediately and show this container or label.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
Carbon dioxide (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 arising from the substance or mixture**
Can be released in case of fire:
Sulphur dioxide (SO₂)
Oxides of phosphorus (PxOy)

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- **Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
Avoid contact with skin and eyes.
- **Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable containers.
Dispose of the material collected according to regulations.
- **Reference to other sections**
See Section 8 for information on personal protection equipment.

7 Handling and storage

- **Handling**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with skin and eyes.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store in the original container.
Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Keep container tightly sealed.
Protect from frost.

8 Exposure controls/personal protection

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

- **Control parameters**

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

1310-58-3 Potassium hydroxide

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

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

- **Exposure controls**
- **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.
Do not inhale gases / fumes / aerosols.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:**
Protective gloves

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Check the permeability prior to each renewed use of the glove.

To avoid skin problems reduce the wearing of gloves to the required minimum.

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.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material** Protective gloves should be replaced at first signs of wear.

· **Eye protection:** Tightly sealed safety glasses

· **Body protection:**

Protective work clothing

Protective clothing should be selected specifically for the working place.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: liquid

Colour: red

· **Smell:** characteristic

· **pH-value at 20°C:** 10.9

· **Change in condition**

Melting point/Melting range: not determined

Boiling point/Boiling range: not determined

· **Flash point:** not applicable

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Density at 20°C:** 1.165 g/cm³

· **Solubility in / Miscibility with**

Water: fully miscible

· **Other information** Further informations please refer to technical data sheet.

10 Stability and reactivity

· **Reactivity**

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known.

· **Incompatible materials:** none

· **Hazardous decomposition products:**

 Sulphur oxides (SO_x)

 Phosphorus oxides (e.g. P₂O₅)

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11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

1310-58-3 Potassium hydroxide

Oral	LD50	365 mg/kg (rat)
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· **Primary irritant effect:**

· **on the skin:** Irritant for skin and mucous membranes.

· **on the eye:** Irritant effect

· **Sensitization:** No sensitizing effect known.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) N° 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

· **Waste disposal key number:** According to local/national regulations.

· **European waste catalogue:**

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

· **Land transport ADR/RID (cross-border):**

· **ADR/RID Class:** -

· **Maritime transport IMDG-Code:**

· **IMDG Class:** -

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· **Marine pollutant:** NO

· **Air transport ICAO-TI and IATA-DGR:**
· **ICAO/IATA Class:** -

· **Special precautions for user** Not applicable.

· **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Designation according to EC guidelines:**

The product has been classified/labelled in accordance with EC Directives / relevant national laws.

· **Code letter and hazard designation of product:**



Xi Irritant

· **Risk phrases:**

36/38 Irritating to eyes and skin.

· **Safety phrases:**

2 Keep out of the reach of children.

24/25 Avoid contact with skin and eyes.

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

37 Wear suitable gloves.

46 If swallowed, seek medical advice immediately and show this container or label.

56 Dispose of this material and its container to hazardous or special waste collection point.

· **Ingredients according to Regulation (EC) No 648/2004:**

phosphates	15 - 30%
amphoteric surfactants, anionic surfactants	< 5%

· **National regulations**

· **Information about limitation of use:** Employment restrictions concerning young persons must be observed.

· **Decree to be applied in case of technical fault:** -

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

The(se) R- resp. H-phrase(s) are those of the ingredient(s) and do(es) not necessarily represent the classification of the preparation.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

R22 Harmful if swallowed.

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- R35 Causes severe burns.
R36/38 Irritating to eyes and skin.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R50 Very toxic to aquatic organisms.

· Department issuing MSDS:

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