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

*Printing date 22.05.2013* Version number 5 Revision: 22.05.2013

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

· Date of compilation: 26.10.2009

· 1.1 Product identifier

Trade name: RATIONAL Special cleaner soft for RATIONAL CleanJet® and hand cleaning

· Article number(s): 9006.0136

1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

· Application of the substance / the preparation: Alkaline cleaner / detergent

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer / Supplier:

Rational AG Iglinger Straße 62 D-86899 Landsberg

· E-mail address of the competent person responsible for the Safety Data Sheet: info@rational-online.com

· Informing department: Quality management

· 1.4 Emergency telephone number:

Internationale Giftzentrale Tel.: +49-(0)89-19240

"Rechts der Isar"

### SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36/38: Irritating to eyes and skin.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



Signal word Danger

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#### Hazard-determining components of labelling:

Silicic acid, potassium salt

Hazard statements

H315 Causes skin irritation. H318 Causes serious eye damage.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P103 Read label before use.

*P280* Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

2.3 Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable. · **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterization: Mixtures
- · Description: Aqueous solution

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

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

Ingredients according to Reg	gulation (EC) No 64	48/2004:		
phosphates			15 - 30	%
amphoteric surfactants, anior	nic surfactants		< 5%	

### SECTION 4: First aid measures

- 4.1 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.* 

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If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water.

Use eye protection.

Call a doctor immediately.

· After swallowing:

Rinse out mouth and then drink plenty of water.

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

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **SECTION 5: Firefighting measures**

- · 5.1 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
- 5.2 Special hazards arising from the substance or mixture

Can be released in case of fire:

Sulphur dioxide (SO<sub>2</sub>)

Oxides of phosphorus (PxOy)

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

### SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Avoid contact with skin and eyes.

- 6.2 Environmental precautions: Do not allow to enter drainage system, surface or ground water.
- 6.3 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.

· 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

### SECTION 7: Handling and storage

7.1 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.
- · 7.2 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.

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Store and transport upright.

· 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · 8.1 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/m³

- · Additional information: The lists that were valid during the compilation were used as basis.
- · 8.2 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.

Do not eat, drink or smoke while working.

- · Breathing equipment: Not necessary if room is well-ventilated.
- Protection of hands:

Protective gloves

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

Body protection must be chosen depending on activity and possible exposure.

### SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- General Information
- · Appearance:

Form: liquid
Colour: red

• Smell: characteristic • Odour threshold: not determined

• pH-value at 20 °C: 10.9

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Change in condition	
Melting point/Melting range:	not determined
Boiling point/Boiling range:	not determined
Flash point:	not applicable
Inflammability (solid, gaseous)	Not applicable.
Ignition temperature:	
Decomposition temperature:	Not determined.
Self-inflammability:	Product is not selfigniting.
Danger of explosion:	Product is not explosive.
Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
Oxidizing properties	not classified as oxidising
Vapor pressure:	Not determined.
Density at 20 °C:	1.165 g/cm³
Relative density	Not determined.
Vapour density (AIR = 1):	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	fully miscible
Partition coefficient (n-octanol/wat	ter): Not determined.
Viscosity:	
dynamic:	not determined
kinematic:	not determined
9.2 Other information	Further informations please refer to technical data sheet.

### SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:

Sulphur oxides (SOx)

Phosphorus oxides (e.g. P<sub>2</sub>O<sub>5</sub>)

### SECTION 11: Toxicological information

- · 11.1 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)

- Primary irritant effect:
- on the skin: Irritating to skin.
- · on the eye: Causes serious eye damage.

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- · 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

The product shows the following dangers according to the calculation method of Regulation (EC) No. 1272/2008 (CLP/GHS):

Eve Dam. 1

Skin Irrit. 2

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

According to present knowledge no CMR-effects known.

### SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:

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)  $N^{\circ}$  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.

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

- 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

### SECTION 13: Disposal considerations

- · 13.1 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.

SECTION 14: Transport information			
· 14.1 UN-Number · ADR, IMDG, IATA	Void		
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Void		

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· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Anno MARPOL73/78 and the IBC Code	ex II of Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations
- Information about limitation of use: Employment restrictions concerning young persons must be observed.
- Decree to be applied in case of technical fault: Directive 96/82/EC does not apply.
- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### SECTION 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.

#### Reasons for changes:

The Material Safety Data Sheet has been revised. Changes in the respective chapters are characterized in the left side edge by \*.

#### Relevant phrases

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

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eve irritation.

H400 Very toxic to aquatic life.

R22 Harmful if swallowed.

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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#### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent