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Safety Data Sheet acc. to OSHA HCS

Printing date 20.11.2018

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Reviewed on 20.11.2018

1 Identification	
· Product identifier	
· Trade name: RATIONAL Special cl	eaner soft for RATIONAL CleanJet® and hand cleaning
• Article number: 9006.0136 9006.0146	ostance or mixture and uses advised against
· Application of the substance / the	mixture Alkaline cleaner/ detergent
 Details of the supplier of the safety Manufacturer/Supplier: RATIONAL AG Siegfried-Meister-Straße 1 86899 Landsberg am Lech Germany 	y data sheet Tel.: +49 8191 327-2365 Fax: +49 8191 327-72 2365
 Information department: Product m Emergency telephone number: Giftnotruf München "Klinikum rechts d Tel. +49 89 19 24 0 	-
2 Hazard(s) identification	
Eye Dam. 1 H318 Causes ser Aquatic Acute 3 H402 Harmful to Aquatic Chronic 3 H412 Harmful to • Label elements • GHS label elements	vere skin burns and eye damage. rious eye damage. aquatic life.
· Signal word Danger	
 Hazard-determining components of Potassium hydroxide Silicic acid, potassium salt Hazard statements H314 Causes severe skin burns and H412 Harmful to aquatic life with long Precautionary statements P101 If medical advice if P102 Keep out of reach 	eye damage. g lasting effects. is needed, have product container or label at hand.

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P103	Read label before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin
	with water/shower.
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/doctor.
P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.
 Other hazards 	

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures Description: aqueous solution

Description	. aqueous solution	
 Dangerous 	components:	
68604-71-7	Disodium cocoamphodipropionate	2.5-<10%
	Eye Dam. 1, H318; Aquatic Acute 2, H401	
1310-58-3	Potassium hydroxide	≤ 2.5%
	Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318; Tox. 4, H302	
68188-18-1	Sodium alkylsulfonate	≤ 2.5%
	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Aquatic Chronic 3, H412	
1312-76-1	Silicic acid, potassium salt	≤ 2.5%
	🤣 Eye Dam. 1, H318; 🕖 Skin Irrit. 2, H315	
	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	≤ 2.5%
	Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Acute Tox. 5, H313	
Additional i	nformation For the wording of the listed hazard phrases refer to section 16	2

· Additional information For the wording of the listed hazard 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 complaints.
- · After skin contact
- Immediately 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.
 Remove contact lenses, if present and easy to do.

 Protect unharmed eye.
 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.

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

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- \cdot For safety reasons unsuitable extinguishing agents $\ensuremath{\mathsf{None}}$
- Special hazards arising from the substance or mixture In case of fire, the following can be released:
- Sulphur dioxide (SO2)
- Oxides of phosphorus (PxOy)
- Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Avoid contact with skin and eyes.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles. Dispose of the collected material according to regulations. • Reference to other sections
- See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

- · Handling
- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Avoid contact with skin and eyes.
- Keep receptacles tightly sealed.
- 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 receptacles:** 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 receptacle tightly sealed.

Protect from frost.

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Store and transport upright.

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

8 Exposure controls/personal protection

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

· Control parameters

· Components with limit values that require monitoring at the workplace:

1310-58-3 Potassium hydroxide

- OEL (China) Ceiling limit value: 2 mg/m³
- REL (USA) Ceiling limit value: 2 mg/m³

TLV (USA) Ceiling limit value: 2 mg/m³

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment
- · General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of 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 goggles.

· Body protection:

Protective work clothing.

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

· Limitation and supervision of exposure into the environment

Do not allow to enter sewers/ surface or ground water.

9 Physical and chemical properties

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

fluid

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Color:	Red
· Odor:	characteristic
· Odor threshold:	Not determined.
· pH-value at 20 °C:	13.9
 Change in condition 	
Melting point/Melting range:	undetermined
Boiling point/Boiling range:	undetermined
· Flash point:	Not applicable
· Flammability (solid, gaseous)	Not applicable.
 Ignition temperature: 	Not applicable
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
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/w	vater): Not determined.
· Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
 Other information 	Further informations please refer to technical data sheet.

10 Stability and reactivity

- · Reactivity
- No further relevant information available.
- No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:
- Sulfur oxides (SOx)
- Phosphorus oxides (e.g. P_2O_5)

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	nformation
 Information on tox Acute toxicity: 	kicological effects
-	nat are relevant for classification:
68604-71-7 Disodi	um cocoamphodipropionate
Oral LD50 > 50	000 mg/kg (mouse)
> 20	000 mg/kg (rat) (OECD 402)
1310-58-3 Potassi	um hydroxide
Oral LD50 284	mg/kg (rat)
68188-18-1 Sodiur	n alkylsulfonate
Oral LD50 127	1 mg/kg (rat) (OECD 401)
Dermal LD50 > 50	000 mg/kg (rat) (OECD 402)
Amines, C12-14 (e	even numbered)-alkyldimethyl, N-oxides
Oral LD50 106	4 mg/kg (rat)
Dermal LD50 > 20)00 mg/kg (rat)
· Primary irritant eff	
	es severe skin burns and eye damage.
	s serious eye damage. sensitizing effects known.
· Subacute to chror	5
	um cocoamphodipropionate
Oral NOAEL 1000	
68188-18-1 Sodiur	
Oral NOAEL 150 r	•
No. 1272/2008 (CL Skin Corr. 1B Eye Dam. 1	the following dangers according to the calculation method of Regulation (EC) P/GHS): d to a strong caustic effect on mouth and throat and to the danger of perforation
	ational Safety & Health Administration)
None of the ingredi	•
Carcinogenicity Base Reproductive toxic STOT-single expo STOT-repeated ex	nicity Based on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. city Based on available data, the classification criteria are not met. sure Based on available data, the classification criteria are not met. aposure Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
Ecological info	rmation
· Toxicity	
· Aquatic toxicity:	
68604-71-7 Disodi	um cocoamphodipropionate
LC50/96 h (static)	2.6 mg/l (carp (cyprinus carpio)) (OECD 203)
EC50/3 h EC50/48 h (static)	1000 mg/l (bacteria) (OECD 209) 90 mg/l (daphnia) (OECD 202)

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	33 mg/l (algae (pseudokirchneriella subcapitata)) (OECD 201)
NOEC (static)	0.82 mg/l (algae (pseudokirchneriella subcapitata)) (OECD 201)
1310-58-3 Potassi	
LC50/96 h	80 mg/l (gambusia affinis)
68188-18-1 Sodiun	n alkylsulfonate
LC50/96 h	4.16 mg/l (zebra fish (danio rerio)) (OECD 203)
EC50/3 h	810 mg/l (bacteria) (OECD 209)
EC50/48 h	4.72 mg/l (water flea (daphnia magna)) (OECD 202)
IC50/72 h	246.89 mg/l (algae (Scenedesmus subspicatus)) (OECD 201)
EC50/72 h	95.5 mg/l (algae (Desmodesmus subspicatus)) (OECD 201)
Amines, C12-14 (e	ven numbered)-alkyldimethyl, N-oxides
LC50/96 h	3.46 mg/l (fis)
EC50	3.1 mg/l (daphnia)
IC50	0.143 mg/l (seagrass)
EC50/72 h	0.266 mg/l (algae)
NOEC	0.067 mg/l (seagrass)
Behavior in enviro Bioaccumulative p Mobility in soil No Ecotoxical effects Remark: Harmful to Additional ecologi General notes: Harmful to aquatic I Do not allow undilut sewage system.	p otential No further relevant information available. further relevant information available. : o fish
as laid down in Reg at the disposal of th them, at their direct Water hazard class Results of PBT and PBT: Not applicable vPvB: Not applicable	ulation (EC) N° 648/2004 on detergents. Data to support this assertion are held e competent authorities of the Member States and will be made available to request or at the request of a detergent manufacturer. 1 (Self-assessment) (German regulation): slightly hazardous for water. d vPvB assessment

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 local/official regulations.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to local/official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

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UN-Number ADR, IMDG, IATA	UN1719			
UN proper shipping name ADR	UN1719 Caustic alkali liquids, n.o.s. (Potassium hydroxide)			
IMDG, IATA	CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)			
Transport hazard class(es)				
ADR				
Class Label	8 (C5) Corrosive substances 8			
Class	8 Corrosive substances			
Label	8			
Packing group ADR, IMDG, IATA	II			
Environmental hazards: Marine pollutant:	No			
Special precautions for user Danger code (Kemler):	Warning: Corrosive substances			
EMS Number: Segregation groups	F-A,S-B			
Stowage Category	Alkalis A			
Segregation Code	A SG22 Stow "away from" ammonium salts SG35 Stow "separated from" acids.			
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	Il of Not applicable.			
Transport/Additional information:	Not dangerous according to the above specification			
ADR Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml			
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml			
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· UN "Model Regulation":

UN 1719 CAUSTIC ALKALI LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE), 8, II

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture
- · SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed.

- · Prop 65 Chemicals known to cause cancer
- None of the ingredients is listed.
- · Chinese Chemical Inventory of Existing Chemical Substances
- All ingredients are listed.
- · National regulations
- Information about limitation of use: Employment restrictions concerning young persons must be observed.
- Disturbance regulations: Directive 2012/18/EU does not apply.
- · Water hazard class:

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

- Other regulations, limitations and prohibitive regulations
 Observe restrictions on the marketing and use according to Annex XVII of Regulation (EC) No 1907/2006.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

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

· Department issuing SDS:

C.S.B. GmbH	Phone:	+49 - 21	51 - 65208	6-0
Düsseldorfer Str. 113	Fax:	+49 - 21	51 - 65208	6-9
47809 Krefeld / Germany	,			

· 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 EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Met. Corr.1: Corrosive to metals - Category 1 Acute Tox. 4: Acute toxicity - Category 4 Acute Tox. 5: Acute toxicity - Category 5 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 1B: Skin corrosion/irritation - Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2

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Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2 Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

 \cdot * Data compared to the previous version altered.