

SAFETY DATA SHEET

in accordance with Commission Regulation (EU) No. 1907/2006

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Compilation date: 26.08.2010

Revision date: 30.06.2015

Revision No: 4

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

1.1. Product identifier

Product name: KLEEN PRO RZ-ST 10

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Industrial cleaner for professional users

1.3. Details of the supplier of the safety data sheet

Company name: KLEEN PURGATIS GmbH

Dieselstraße 10

D - 32120 Hiddenhausen

Deutschland

Tel: +49 (0)5223 - 9970-40

Fax: +49 (0)5223 - 9970-50

Email: info@kleen-purgatis.de

1.4. Emergency telephone number

Emergency tel: +49 (0)551 - 19240 (GIZ-Nord)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1A: H314; -: EUH208

Classification under CHIP: Xi: R36/38

Most important adverse effects: Causes severe skin burns and eye damage. Contains triisobutylphosphat. May produce an allergic reaction.

*2.2. Label elements

Label elements under CLP:

Hazard statements: H314: Causes severe skin burns and eye damage.

EUH208: Contains triisobutylphosphat. May produce an allergic reaction.

Signal words: Danger**Hazard pictograms:** GHS05: Corrosion**Hazard components for labelling:** Disodium metasilicate**Precautionary statements:** P102: Keep out of reach of children.

P280: Wear protective gloves/eye protection.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing.

P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.

P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P310: Immediately call a POISON CENTER or doctor.

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

2-BUTOXYETHANOL - REACH registered number(s): 01-2119475108-36-0000

| EINECS | CAS | CLP Classification | Percent |
|-----------|----------|---|---------|
| 203-905-0 | 111-76-2 | Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315 | 10-20% |

DISODIUM METASILICATE - REACH registered number(s): 01-2119449811-37-0000

| EINECS | CAS | CLP Classification | Percent |
|-----------|-----------|--------------------------------------|---------|
| 229-912-9 | 6834-92-0 | Skin Corr. 1B: H314; STOT SE 3: H335 | 1-5% |

FATTY ALCOHOL ETHOXYLATE - REACH registered number(s): 01-2119487984-16-0000

| EINECS | CAS | CLP Classification | Percent |
|--------|------------|--------------------------------------|---------|
| - | 68439-50-9 | Acute Tox. 4: H302; Eye Dam. 1: H318 | 1-5% |

SODIUM CUMENE SULFONATE - REACH registered number(s): -

| EINECS | CAS | CLP Classification | Percent |
|-----------|------------|--------------------|---------|
| 248-983-7 | 28348-53-0 | Eye Irrit. 2: H319 | 1-5% |

2-AMINOETHANOL - REACH registered number(s): 01-2119486455-28-0000

| EINECS | CAS | CLP Classification | Percent |
|-----------|----------|--|---------|
| 205-483-3 | 141-43-5 | Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314 | <1% |

Non-hazardous ingredients:

TRIIISOBUTYLPHOSPHATE - REACH registered number(s): -

| EINECS | CAS | CLP Classification | Percent |
|-----------|----------|--------------------|---------|
| 204-798-3 | 126-71-6 | Skin Sens. 1: H317 | <1% |

Contains: Contains Triisobutylphosphat.

May produce an allergic reaction.

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

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Ingestion: If conscious, give half a litre of water to drink immediately. Do not induce vomiting. Consult a doctor.

Inhalation: Move affected person into fresh air. In case of respiratory tract irritation, consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Corrosive.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Keep unprotected people away and stay on the upwind side. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Wash with plenty of water. Refer to section 13 of SDS for suitable method of disposal.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

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Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Storage class: 12 (Non-combustible liquids)

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

2-BUTOXYETHANOL

Workplace exposure limits:

Respirable dust

| State | 8 hour TWA | 15 min. STEL | 8 hour TWA | 15 min. STEL |
|-------|------------|--------------|------------|--------------|
| UK | 25 ppm | 50 ppm | - | - |

2-AMINOETHANOL

| | | | | |
|----|-----------------------|-----------------------|---|---|
| UK | 2.5 mg/m ³ | 7.6 mg/m ³ | - | - |
|----|-----------------------|-----------------------|---|---|

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: not necessary.

Hand protection: Protective gloves. Suitable material: NR (natural rubber), CR (polychloroprene) or NBR (nitrile rubber), category III according to EN 374. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Breakthrough time (maximal wear duration): Wear duration with occasional contact, splashes (Level 2: < 30 min): Disposable-gloves, Thickness of the material 0,1mm. Wear duration with permanent contact (Level 6: < 480min): Protective gloves, Thickness of the glove material 0,7 mm. Breakthrough times and swelling properties of the material must be taken into consideration.

Eye protection: Safety glasses.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Pale yellow

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Odour: fruity

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Miscible

Relative density: 1,04 g/ml

pH: 13

VOC g/l: 12 %

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: No hazardous decomposition products if stored and handled as prescribed.

10.5. Incompatible materials

Materials to avoid: None known

10.6. Hazardous decomposition products

Haz. decomp. products: No hazardous decomposition products known.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

| Route | Species | Test | Value | Units |
|----------------------|---------|------|-------|-------|
| 2-Butoxyethanol: ORL | RAT | LD50 | 1480 | mg/kg |

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

| Species | Test | Value | Units |
|--------------------------------------|----------|---------|-------|
| 2-Butoxyethanol: Lepomis macrochirus | 96H LC50 | 1490 | mg/l |
| Daphnia magna | 24H EC50 | 1750 | mg/l |
| 2-Aminoethanol: Leuciscus idus | 96H LC50 | 224-225 | mg/l |

12.2. Persistence and degradability

Persistence and degradability: The surfactant(s) contained in this preparation complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: no data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: The product has not been tested. Data apply to the components with the highest toxicological risk.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose of waste according to applicable local, state and federal regulations.

Waste code number: 20 01 29

Disposal of packaging: May be reused following decontamination.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1719

14.2. UN proper shipping name

Shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (Disodium metasilicate)

Ätzender, alkalischer, flüssiger Stoff, n.a.g. (Dinatriummetasilikat)

LQ: 5L

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14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 1907/2006.

* indicates text in the SDS which has changed since the last revision.

Data references: Safety data sheets from our raw material suppliers Department issuing

MSDS: Product Development Department; Contact: Ms. Tiemann, Ms. Klumpe

Classification for mixtures and used evaluation method according to article 9 of regulation (EC) 1272/2008 [CLP]:
Calculation method

Phrases used in s.2 and 3: EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.