

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)
with its amendment Regulation (EU) 2015/830

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Revision No: 5.1

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Product name:** KLEEN CATERING GRANIT S SPRAY**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of substance / mixture:** Grill 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 - 9970-195**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**Most important adverse effects:** Causes severe skin burns and eye damage.**2.2. Label elements****Label elements:****Hazard statements:** H314: Causes severe skin burns and eye damage.**Hazard pictograms:** GHS05: Corrosion**Signal words:** Danger**Hazard components for labelling:** disodium metasilicate, potassium hydroxide**Precautionary statements:** P102: Keep out of reach of children.

P260: Do not breathe spray.

P280: Wear protective gloves/eye 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.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water [or shower].

P310: Immediately call a POISON CENTER / doctor.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

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

| EINECS | CAS | SCL | CLP Classification | Percent |
|-----------|-----------|-----|--------------------------------------|---------|
| 229-912-9 | 6834-92-0 | - | Skin Corr. 1B: H314; STOT SE 3: H335 | 5-10% |

POTASSIUM HYDROXIDE - REACH registered number(s): 01-2119487136-33-0000

| | | | | |
|-----------|-----------|---|---|------|
| 215-181-3 | 1310-58-3 | - | Acute Tox. 4: H302; Skin Corr. 1A: H314 | 1-5% |
|-----------|-----------|---|---|------|

ALKYLDIMETHYLAMINOXIDE - REACH registered number(s): 01-2119489418-23-0000

| | | | | |
|-----------|------------|---|---------------------------------------|------|
| 263-016-9 | 61788-90-7 | - | Eye Dam. 1: H318; Skin Irrit. 2: H315 | 1-5% |
|-----------|------------|---|---------------------------------------|------|

FATTY ACID AMIDOALKYLBETAINE - REACH registered number(s): 01-2119488533-30-0000

| | | | | |
|-----------|------------|---|---|------|
| 263-058-8 | 61789-40-0 | - | Eye Irrit. 2: H319; Aquatic Chronic 3: H412 | 1-5% |
|-----------|------------|---|---|------|

SODIUM CUMENESULPHONATE - REACH registered number(s): 01-2119489411-37-0000

| | | | | |
|-----------|------------|---|--------------------|------|
| 239-854-6 | 15763-76-5 | - | Eye Irrit. 2: H319 | 1-5% |
|-----------|------------|---|--------------------|------|

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.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.

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

Ingestion: Let water be drunken in little sips (dilution effect). 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: Blistering may occur.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Nausea and stomach pain may occur.

[cont...]

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Inhalation: There may be shortness of breath with a burning sensation in the throat. 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: Water spray. Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes.

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.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

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 the spillage site with large amounts 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.

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. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Ensure storage room has retention walls. Storage class: 8B (Non-combustible corrosive substances)

Suitable packaging: Must only be kept in original packaging.

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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:

POTASSIUM HYDROXIDE

Workplace exposure limits:

Respirable dust

| State | 8 hour TWA | 15 min. STEL | 8 hour TWA | 15 min. STEL |
|-------|------------|---------------------|------------|--------------|
| UK | - | 2 mg/m ³ | - | - |

***DNEL/PNEC Values**

Hazardous ingredients:

DISODIUM METASILICATE

| Type | Exposure | Value | Population | Effect |
|------|-------------|------------------------|------------|----------|
| DNEL | Dermal | 1,49 mg/kg | Workers | Systemic |
| DNEL | Inhalation | 6,22 mg/m ³ | Workers | Systemic |
| DNEL | Dermal | 0,74 mg/kg | Population | Systemic |
| DNEL | Inhalation | 1,55 mg/m ³ | Population | Systemic |
| DNEL | Oral | 0,74 mg/kg | Population | Systemic |
| PNEC | Fresh water | 7,5 mg/l | - | - |

POTASSIUM HYDROXIDE

| Type | Exposure | Value | Population | Effect |
|------|----------------------------|---------------------|------------|--------|
| DNEL | Inhalation (repeated dose) | 1 mg/m ³ | Population | Local |

COCAMIDOPROPYLBETAIN

| Type | Exposure | Value | Population | Effect |
|------|------------------------|-------------|------------|----------|
| DNEL | Oral (repeated dose) | 7,5 mg/kg | Workers | Systemic |
| DNEL | Dermal (repeated dose) | 7,5 mg/kg | Workers | Systemic |
| PNEC | Fresh water | 0,0135 mg/l | - | - |
| PNEC | Fresh water sediments | 1 mg/l | - | - |

SODIUM CUMENESULPHONATE

| Type | Exposure | Value | Population | Effect |
|------|----------------------------|------------------------|------------|----------|
| DNEL | Dermal (repeated dose) | 136,25 mg/kg | Workers | Systemic |
| DNEL | Inhalation (repeated dose) | 26,9 mg/m ³ | Workers | Systemic |
| DNEL | Oral (repeated dose) | 3,8 mg/kg | Consumers | Systemic |

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| | | | | |
|------|------------------------------------|------------|---|---|
| PNEC | Fresh water | 0,23 mg/l | - | - |
| PNEC | Marine water | 0,023 mg/l | - | - |
| PNEC | Microorganisms in sewage treatment | 100 mg/l | - | - |

8.2. Exposure controls

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

Respiratory protection: Respiratory protection not required.

Hand protection: Wear chemical-resistant disposable protective gloves according to EN 374. 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: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Not applicable.

Environmental: No special requirement.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Pale yellow

Odour: Characteristic odour

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Miscible

Viscosity: Non-viscous

Kinematic viscosity: 0.3-0.5

Viscosity test method: rotational viscometer, 20°C

Boiling point/range°C: No data available.

Melting point/range°C: Not applicable.

Flammability limits %: lower: Not applicable.

upper: Not applicable.

Flash point°C: Not applicable.

Part.coeff. n-octanol/water: No data available.

Autoflammability°C: Not applicable.

Vapour pressure: No data available.

Relative density: 1,15 g/cm³

pH: 14

9.2. Other information

Other information: No data available.

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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: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

DISODIUM METASILICATE

| | | | | |
|-----|-----|------|------|-------|
| ORL | MUS | LD50 | 770 | mg/kg |
| ORL | RAT | LD50 | 1153 | mg/kg |

POTASSIUM HYDROXIDE

| | | | | |
|-----|-----|------|-----|-------|
| ORL | RAT | LD50 | 273 | mg/kg |
|-----|-----|------|-----|-------|

ALKYLDIMETHYLAMINOXIDE

| | | | | |
|------|-----|------|-------|-------|
| ORAL | RAT | LD50 | >2000 | mg/kg |
|------|-----|------|-------|-------|

FATTY ACID AMIDOALKYLBETAINE

| | | | | |
|-----|-----|------|-------|-------|
| ORL | RAT | LD50 | >4900 | mg/kg |
|-----|-----|------|-------|-------|

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: Blistering may occur.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Nausea and stomach pain may occur.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

[cont...]

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

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

FATTY ACID AMIDOALKYL BETAINE

| | | | |
|---------------------|------|------|------|
| Daphnia magna | LOEC | 3,6 | mg/l |
| Daphnia magna | NOEC | 0,9 | mg/l |
| Oncorhynchus mykiss | LOEC | 0,5 | mg/l |
| Oncorhynchus mykiss | NOEC | 0,16 | mg/l |

SODIUM CUMENESULPHONATE

| | | | |
|---------------------|----------|------|------|
| Oncorhynchus mykiss | 96H LC50 | >100 | 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 product is not identified as a PBT/vPvB 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: 06 02 04

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

[cont...]

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14.1. UN number

UN number: UN1814

14.2. UN proper shipping name

Shipping name: POTASSIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: II

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: 2

Section 15: Regulatory information

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

Specific regulations: Ingredients according to Regulation (EC) No 648/2004: <5% non-ionic surfactants, amphoteric surfactants, phosphates, phosphonates

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: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

* 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: Mrs. Klumpe, Mr. Rethmeier

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 s.3: H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

[cont...]

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H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct. This company shall not be held liable for any damage resulting from handling or from contact with the above product.