

Safety Data Sheet

according to Regulation (EC) No 1907/2006

smartclean® tabs

Print date: 09.03.2016

Product code: 10831

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P310 Immediately call a POISON CENTER/doctor.
 P332+P313 If skin irritation occurs: Get medical advice/attention.

Special labelling of certain mixtures

EUH208 Contains dipotassium peroxodisulphate, potassium persulphate. May produce an allergic reaction.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of organic acid with salts as well as fragrances and dyes.

Hazardous components

| CAS No | Chemical name | Quantity |
|------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------|
| | EC No Index No REACH No | |
| | Classification according to Regulation (EC) No. 1272/2008 [CLP] | |
| 77-92-9 | citric acid, non-aqueous | 35 - < 40 % |
| | 201-069-1 | |
| | Eye Irrit. 2; H319 | |
| 151-21-3 | sodium dodecyl sulphate | 15 - < 20 % |
| | 205-788-1 | |
| | 01-2119489461-32 | |
| | Flam. Sol. 2, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, Aquatic Chronic 3; H228 H302 H332 H315 H318 H335 H412 | |
| 15630-89-4 | sodium percarbonate | 5 - < 10 % |
| | 239-707-6 | |
| | 01-2119457268-30 | |
| | Ox. Sol. 3, Acute Tox. 4, Eye Dam. 1; H272 H302 H318 | |
| 7727-21-1 | dipotassium peroxodisulphate, potassium persulphate | < 1 % |
| | 231-781-8 | |
| | 016-061-00-1 | |
| | Ox. Sol. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3; H272 H302 H315 H319 H334 H317 H335 | |

Full text of H and EUH phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Seek immediately medical advice. Do not induce vomiting. In case of spontaneous vomiting take care of an unhindered flow out of the vomit (danger of suffocation). Rinse mouth immediately and drink

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plenty of water.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Dry extinguishing powder , Carbon dioxide (CO₂) , Foam

Unsuitable extinguishing media

Water spray jet

5.2. Special hazards arising from the substance or mixture

Non-flammable. Do not breathe gas/vapour/aerosol. Keep away from heat.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid generation of dust. Do not breathe dust.

Advice on protection against fire and explosion

Keep away from flames, sources of heat or ignition - no smoking. Remove products not yet affected by the fire, cool products not affected with spray water or cover with foam . Dust can lead to an explosive mixture in combination with air. Take measures against electrostatic charging.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

Advice on storage compatibility

Do not store together with inflammable and combustible materials or strong acids.

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Further information on storage conditions

Keep only in the original container in a cool, dry and well-ventilated place, away from foodstuffs. Protect against direct sunlight.

7.3. Specific end use(s)

Cleaning tablets for earmoulds. after dissolution in water.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable are gloves of the following material: NBR (Nitrile rubber)

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|---------------------------------|
| Physical state: | solid/ pressed powder (tablets) |
| Colour: | reddish speckled |
| Odour: | like lemon fruits |

Test method

| | |
|-----------|----------------|
| pH-Value: | not determined |
|-----------|----------------|

Changes in the physical state

| | |
|------------------------------------------|----------------|
| Melting point: | not determined |
| Initial boiling point and boiling range: | not determined |
| Flash point: | not applicable |

Flammability

| | |
|-------------------------|----------------|
| Solid: | not determined |
| Gas: | not applicable |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |

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Auto-ignition temperature

Solid: not determined
Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidizing.

Vapour pressure: not determined

Density (at 20 °C): 2,3 g/cm³ DIN 51757

Water solubility: easily soluble

Solubility in other solvents

not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Reacts with : strong acids. The product increases the incineration of other combustible materials.

10.4. Conditions to avoid

Avoid exposure to heat and humidity.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.

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| CAS No | Chemical name | | | | |
|------------|-----------------------------------------------------|--------|-----------------|---------|--------|
| | Exposure routes | Method | Dose | Species | Source |
| 77-92-9 | citric acid, non-aqueous | | | | |
| | oral | LD50 | 3000 mg/kg | Rat | TOXNET |
| 151-21-3 | sodium dodecyl sulphate | | | | |
| | oral | LD50 | >500-2000 mg/kg | Rat | OECD |
| | dermal | LD50 | >2000 mg/kg | Rabbit | OECD |
| | inhalative vapour | ATE | 11 mg/l | | |
| | inhalative aerosol | ATE | 1,5 mg/l | | |
| 15630-89-4 | sodium percarbonate | | | | |
| | oral | LD50 | 1034 mg/kg | Rat | |
| | dermal | LD50 | > 2000 mg/kg | Rabbit | |
| 7727-21-1 | dipotassium peroxodisulphate, potassium persulphate | | | | |
| | oral | LD50 | 802 mg/kg | Rat | GESTIS |

Irritation and corrosivity

Causes skin irritation.
Causes serious eye damage.

Sensitising effects

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

| CAS No | Chemical name | | | | | |
|------------|-----------------------------------------------------|--------|--------------|-----------|--------------------------------------|--------|
| | Aquatic toxicity | Method | Dose | [h] [d] | Species | Source |
| 77-92-9 | citric acid, non-aqueous | | | | | |
| | Acute fish toxicity | LC50 | 440-760 mg/l | 96 h | Leuciscus idus (golden orfe) | IUCLID |
| 15630-89-4 | sodium percarbonate | | | | | |
| | Acute fish toxicity | LC50 | 70,7 mg/l | 96 h | Pimephales promelas (fathead minnow) | |
| | Acute crustacea toxicity | EC50 | 4,9 mg/l | 48 h | Daphnia pulex (water flea) | |
| 7727-21-1 | dipotassium peroxodisulphate, potassium persulphate | | | | | |
| | Acute fish toxicity | LC50 | 100 mg/l | 96 h | Poecilia reticulata | |

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12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|----------|--------------------------|---------|
| 77-92-9 | citric acid, non-aqueous | 1,64 |
| 151-21-3 | sodium dodecyl sulphate | -2,03 |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. Packing group:** No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. Packing group:** No dangerous good in sense of this transport regulation.

Air transport (ICAO)

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. Packing group:** No dangerous good in sense of this transport regulation.

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

2010/75/EU (VOC): 0,001 % (0,022 g/l)

2004/42/EC (VOC): 0,001 % (0,022 g/l)

Additional information

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

National regulatory information

Employment restrictions: Observe employment restrictions for young people.
 Water contaminating class (D): 2 - water contaminating
 Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

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
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%

Relevant H- and EUH-phrases (Number and full text)

| | |
|--------|-------------------------------------------------------------------------------------------------|
| H228 | Flammable solid. |
| H272 | May intensify fire; oxidiser. |
| H302 | Harmful if swallowed. |
| 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. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH208 | Contains dipotassium peroxodisulphate, potassium persulphate. May produce an allergic reaction. |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)