

according to Regulation (EC) No 1907/2006

SANIT SolaranlagenReiniger

Revision date: 14.12.2017

Product code: 3287

Page 1 of 9

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

1.1. Product identifier

SANIT SolaranlagenReiniger

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

Use of the substance/mixture

Washing and cleaning products (including solvent based products)

1.3. Details of the supplier of the safety data sheet

| | | |
|-----------------|-----------------------------------|---------------------------|
| Company name: | SANIT-Chemie | |
| | Reinigungsmittel und -geräte GmbH | |
| Street: | Dieselstr. 38 | |
| Place: | D-74211 Leingarten | |
| Telephone: | +49 7131 902100 | Telefax: +49 7131 404360 |
| e-mail: | info@sanit-chemie.de | |
| Contact person: | Produktmanagement | Telephone: 07131 90210-20 |
| Internet: | www.sanit-chemie.de | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Substance or mixture corrosive to metals: Met. Corr. 1

Skin corrosion/irritation: Skin Corr. 1

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

May be corrosive to metals.

Causes severe skin burns and eye damage.

Causes serious eye damage.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Decyl-octyl glycosides oligomer

Nichtionische Tenside

sodium hydroxide; caustic soda

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether

Signal word: Danger

Pictograms:



Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

according to Regulation (EC) No 1907/2006

SANIT SolaranlagenReiniger

Revision date: 14.12.2017

Product code: 3287

Page 2 of 9

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.

Additional advice on labelling

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Hazardous components

| CAS No | Chemical name | | | Quantity |
|-------------|---|--------------|------------------|-----------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 68515-73-1 | Decyl-octyl glycosides oligomer | | | 1 - < 5 % |
| | 500-220-1 | | 01-2119488530-36 | |
| | Eye Dam. 1; H318 | | | |
| 120313-48-6 | Nichtionische Tenside | | | 1 - < 5 % |
| | Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 2; H315 H400 H411 | | | |
| 1310-73-2 | sodium hydroxide; caustic soda | | | <2% |
| | 215-185-5 | 011-002-00-6 | | |
| | Skin Corr. 1A; H314 | | | |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | | | 1 - < 5 % |
| | 203-961-6 | 603-096-00-8 | | |
| | Eye Irrit. 2; H319 | | | |

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

Labelling for contents according to Regulation (EC) No 648/2004

< 5 % non-ionic surfactants.

SECTION 4: First aid measures
4.1. Description of first aid measures
General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. Remove contaminated, saturated clothing immediately.

After inhalation

Provide fresh air. Medical treatment necessary. Move victim to fresh air. Put victim at rest and keep warm.

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 skin, wash immediately with plenty of water and soap.

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. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing.

according to Regulation (EC) No 1907/2006

SANIT SolaranlagenReiniger

Revision date: 14.12.2017

Product code: 3287

Page 3 of 9

After ingestion

Observe risk of aspiration if vomiting occurs. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk. Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious.

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. Treat symptomatically.

SECTION 5: Firefighting measures
5.1. Extinguishing media
Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water. Foam. Extinguishing powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon dioxide (CO₂). Sulfur oxides.

5.3. Advice for firefighters

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

Additional information

Suppress gases/vapours/mists with water spray jet. 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. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Keep away from unprotected people. Keep upwind. High slip hazard because of leaking or spilled product.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
Treat the recovered material as prescribed in the section on waste disposal.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated articles and floor according to the environmental legislation.

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. Do not breathe gas/fumes/vapour/spray. Keep container tightly closed in a cool, well-ventilated place.

according to Regulation (EC) No 1907/2006

SANIT SolaranlagenReiniger

Revision date: 14.12.2017

Product code: 3287

Page 4 of 9

Advice on protection against fire and explosion

No special fire protection measures are necessary.

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. Unsuitable container/equipment material: Metal.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Washing and cleaning products (including solvent based products)

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|-----------|---------------------------|-----|-------------------|-----------|---------------|--------|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 10 | 67.5 | | TWA (8 h) | WEL |
| | | 15 | 101.2 | | STEL (15 min) | WEL |
| 1310-73-2 | Sodium hydroxide | - | 2 | | STEL (15 min) | WEL |

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|--------------------------------|----------------|--------|---------------------|
| 1310-73-2 | sodium hydroxide; caustic soda | | | |
| Consumer DNEL, long-term | | inhalation | local | 1 mg/m ³ |
| Worker DNEL, acute | | dermal | local | < 2 % |
| Worker DNEL, long-term | | inhalation | local | 1 mg/m ³ |

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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

according to Regulation (EC) No 1907/2006

SANIT SolaranlagenReiniger

Revision date: 14.12.2017

Product code: 3287

Page 5 of 9

supplier of these gloves. 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. Tested protective gloves are to be worn: NBR (Nitrile rubber). Breakthrough times and swelling properties of the material must be taken into consideration. Thickness of glove material: 0,65mm; penetration time (maximum wearing period): 8h

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: | liquid | |
| Colour: | light yellow | |
| pH-Value (at 20 °C): | | 13,3 |

Changes in the physical state

| | | |
|--|--|----------------|
| Melting point: | | not determined |
| Initial boiling point and boiling range: | | 100 °C |
| Flash point: | | not applicable |

Flammability

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

Auto-ignition temperature

| | | |
|----------------------------|--|----------------|
| Solid: | | not applicable |
| Gas: | | not applicable |
| Decomposition temperature: | | not determined |

Oxidizing properties

| | | |
|-------------------|--|------------------------|
| Not oxidising. | | |
| Vapour pressure: | | not determined |
| Vapour pressure: | | not determined |
| Density: | | 1,04 g/cm ³ |
| Water solubility: | | completely miscible |

Solubility in other solvents

| | | |
|------------------------|--|----------------|
| not determined | | |
| Partition coefficient: | | not determined |
| Viscosity / dynamic: | | 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

Corrosive to metals. Possibility of hazardous reactions.

according to Regulation (EC) No 1907/2006

SANIT SolaranlagenReiniger

Revision date: 14.12.2017

Product code: 3287

Page 6 of 9

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid, Peroxides, Oxidising agent.

10.4. Conditions to avoid

none

10.5. Incompatible materials

Metal. Keep away from: Acid, Oxidising agent, Peroxides. Oxidizing agents, strong.

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.

| CAS No | Chemical name | | | | |
|------------|--|-------------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 68515-73-1 | Decyl-octyl glycosides oligomer | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | | |
| | dermal | LD50 > 2000 mg/kg | Rat | | |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | | | | |
| | oral | LD50 5660 mg/kg | Rat | | |
| | dermal | LD50 4120 mg/kg | Rabbit | | |

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

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

no danger of sensitization.

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

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

Further information

Has degreasing effect on the skin.

according to Regulation (EC) No 1907/2006

SANIT SolaranlagenReiniger

Revision date: 14.12.2017

Product code: 3287

Page 7 of 9

SECTION 12: Ecological information
12.1. Toxicity

The product is not: Ecotoxic.

| CAS No | Chemical name | | | | | |
|------------|--|---------------|-----------|---------|-----------------------------------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 68515-73-1 | Decyl-octyl glycosides oligomer | | | | | |
| | Acute fish toxicity | LC50 mg/l | 1 - 10 | 96 h | | |
| | Fish toxicity | NOEC | > 1 mg/l | 21 d | Brachydanio rerio (zebra-fish) | |
| | Crustacea toxicity | NOEC | >1 mg/l | 21 d | Daphnia magna | |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | | | | | |
| | Acute algae toxicity | ErC50 mg/l | > 100 | | Scenedesmus sp. | |
| | Acute crustacea toxicity | EC50 mg/l | > 100 | 48 h | Daphnia magna | |

12.2. Persistence and degradability

Biologically degradable according to the Washing- and Cleaning Agents Act (WRMG German Law).

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|----------|--|-------------|
| 112-34-5 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | 0,56 (25°C) |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Disposal recommendations

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

List of Wastes Code - residues/unused products

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors; hazardous waste

List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

according to Regulation (EC) No 1907/2006

SANIT SolaranlagenReiniger

Revision date: 14.12.2017

Product code: 3287

Page 8 of 9

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information
Land transport (ADR/RID)

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 55: 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether

2004/42/EC (VOC): 1 % (10,4 g/l)

Additional information

Regulation (EC) No. 648/2004 (Detergents regulation). To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

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%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|--------------------|--------------------------|
| Met. Corr. 1; H290 | On basis of test data |
| Skin Corr. 1; H314 | On basis of test data |
| Eye Dam. 1; H318 | On basis of test data |

Relevant H and EUH statements (number and full text)

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

SANIT SolaranlagenReiniger

Revision date: 14.12.2017

Product code: 3287

Page 9 of 9

| | |
|------|--|
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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