

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



REPLASTeasy PLASTIC CLEANER - 500 ML

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 09.03.2023 |
| 7.1 | 28.07.2023 | 10639551-00011 | Date of first issue: 11.06.2010 |

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

1.1 Product identifier

| | | |
|---------------------------------|---|--------------------------------------|
| Trade name | : | REPLASTeasy PLASTIC CLEANER - 500 ML |
| Product code | : | 08935001 |
| Unique Formula Identifier (UFI) | : | 8YW8-Y0ER-900G-SSAD |

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

| | | |
|---------------------------------|---|---|
| Use of the Sub-stance/Mixture | : | Cleaning agent, Detergent Professional use product |
| Recommended restrictions on use | : | Not applicable |

1.3 Details of the supplier of the safety data sheet

| | | |
|--|---|--|
| Company | : | Adolf Wuerth GmbH & Co. KG Reinhold-Würth-Str. 12-17 74653 Künzelsau |
| Telephone | : | +49 794015 0 |
| Telefax | : | +49 794015 10 00 |
| E-mail address of person responsible for the SDS | : | isi@wuerth.com |

1.4 Emergency telephone number

+49 (0)6132 – 84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

| | |
|---------------------------------|-----------------------------------|
| Corrosive to metals, Category 1 | H290: May be corrosive to metals. |
| Skin irritation, Category 2 | H315: Causes skin irritation. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H290 May be corrosive to metals.
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements

:

Prevention:

P234 Keep only in original packaging.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P390 Absorb spillage to prevent material damage.

Hazardous components which must be listed on the label:

Sodium silicate, pentahydrate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|---------------|---|----------------|--------------------------|
| | | | |

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| | | | |
|--|---|---|------------------|
| Sodium silicate, pentahydrate | 10213-79-3 | Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 EUH071 | $\geq 3 - < 5$ |
| 2-Butoxyethanol | 111-76-2 203-905-0 603-014-00-0 01-2119475108-36 | Acute Tox. 4; H302 Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute toxicity estimate Acute oral toxicity: 1.200 mg/kg Acute inhalation toxicity (vapour): 3 mg/l | $\geq 1 - < 10$ |
| Propan-2-ol | 67-63-0 200-661-7 603-117-00-0 01-2119457558-25 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 | $\geq 1 - < 10$ |
| Alcohols, C12-14, ethoxylated propoxylated | 68439-51-0 | Aquatic Chronic 3; H412 | $\geq 1 - < 2,5$ |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

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If easy to do, remove contact lens, if worn.
Get medical attention immediately.

If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes skin irritation.
Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.
Flash back possible over considerable distance.
Vapours may form explosive mixtures with air.
Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Silicon oxides
Metal oxides
Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.
Use personal protective equipment.
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapours/mists with a water spray jet.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.

Advice on safe handling : Do not get on skin or clothing.
Avoid inhalation of vapour or mist.
Do not swallow.

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Do not get in eyes.
Wash skin thoroughly after handling.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
Keep container tightly closed.
Keep away from metals. Store in original container or corrosive resistant and/or lined container.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Take precautionary measures against static discharges.
Keep only in original packaging.
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in properly labelled containers. Keep tightly closed.
Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

Store in original container.

Advice on common storage : Do not store with the following product types:
Strong oxidizing agents
Explosives
Gases

Storage class (TRGS 510) : 10

Recommended storage temperature : > 0 °C

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|-----------------|----------|-------------------------------|--------------------------------|------------|
| 2-Butoxyethanol | 111-76-2 | TWA | 20 ppm 98 mg/m ³ | 2000/39/EC |

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| | | | | |
|-------------|---|------|----------------------------------|-------------|
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 50 ppm 246 mg/m ³ | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | AGW | 10 ppm 49 mg/m ³ | DE TRGS 900 |
| | Peak-limit: excursion factor (category): 2;(I) | | | |
| | Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |
| Propan-2-ol | 67-63-0 | AGW | 200 ppm 500 mg/m ³ | DE TRGS 900 |
| | Peak-limit: excursion factor (category): 2;(II) | | | |
| | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |

Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|-----------------|----------|---|--|----------|
| 2-Butoxyethanol | 111-76-2 | butoxy acetic acid: 150 mg/g Creatinine (Urine) | In case of long-term exposure: after more than one shift, Immediately after exposure or after working hours | TRGS 903 |
| Propan-2-ol | 67-63-0 | Acetone: 25 mg/l (Blood) | Immediately after exposure or after working hours | TRGS 903 |
| | | Acetone: 25 mg/l (Urine) | Immediately after exposure or after working hours | TRGS 903 |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|-------------------------------|-----------|-----------------|----------------------------|------------------------|
| Sodium silicate, pentahydrate | Workers | Inhalation | Long-term systemic effects | 5,61 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 1,59 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 1,38 mg/m ³ |
| | Consumers | Skin contact | Long-term systemic effects | 0,8 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 0,8 mg/kg bw/day |
| 2-Butoxyethanol | Workers | Inhalation | Long-term systemic effects | 98 mg/m ³ |
| | Workers | Inhalation | Acute systemic effects | 1091 mg/m ³ |
| | Workers | Inhalation | Acute local effects | 246 mg/m ³ |

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| | | | | |
|-------------|-----------|--------------|----------------------------|-------------------|
| | Workers | Skin contact | Long-term systemic effects | 125 mg/kg bw/day |
| | Workers | Skin contact | Acute systemic effects | 89 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 59 mg/m3 |
| | Consumers | Inhalation | Acute systemic effects | 426 mg/m3 |
| | Consumers | Inhalation | Acute local effects | 147 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 75 mg/kg bw/day |
| | Consumers | Skin contact | Acute systemic effects | 89 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 6,3 mg/kg bw/day |
| | Consumers | Ingestion | Acute systemic effects | 26,7 mg/kg bw/day |
| Propan-2-ol | Workers | Inhalation | Long-term systemic effects | 500 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 888 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 89 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 319 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 26 mg/kg bw/day |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|-------------------------------|----------------------------|------------------------------|
| Sodium silicate, pentahydrate | Fresh water | 7,5 mg/l |
| | Intermittent use/release | 7,5 mg/l |
| | Marine water | 1 mg/l |
| | Sewage treatment plant | 348 mg/l |
| 2-Butoxyethanol | Fresh water | 8,8 mg/l |
| | Marine water | 0,88 mg/l |
| | Freshwater - intermittent | 26,4 mg/l |
| | Sewage treatment plant | 463 mg/l |
| | Fresh water sediment | 34,6 mg/kg dry weight (d.w.) |
| | Marine sediment | 3,46 mg/kg dry weight (d.w.) |
| | Soil | 2,33 mg/kg dry weight (d.w.) |
| | Oral (Secondary Poisoning) | 20 mg/kg food |
| Propan-2-ol | Fresh water | 140,9 mg/l |
| | Marine water | 140,9 mg/l |
| | Intermittent use/release | 140,9 mg/l |
| | Sewage treatment plant | 2251 mg/l |
| | Fresh water sediment | 552 mg/kg dry weight (d.w.) |
| | Marine sediment | 552 mg/kg dry |

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| | | |
|--|----------------------------|----------------------------|
| | | weight (d.w.) |
| | Soil | 28 mg/kg dry weight (d.w.) |
| | Oral (Secondary Poisoning) | 160 mg/kg food |

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations.

Personal protective equipment

Eye/face protection : Wear the following personal protective equipment:
Chemical resistant goggles must be worn.
If splashes are likely to occur, wear:
Face-shield
Equipment should conform to DIN EN 166

Hand protection

Material : butyl-rubber
Break through time : > 480 min
Glove thickness : 0,5 mm
Directive : Equipment should conform to DIN EN 374

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : 0,4 mm
Directive : Equipment should conform to DIN EN 374

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Wear the following personal protective equipment:
If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic protective clothing.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Equipment should conform to DIN EN 14387

Filter type : Combined particulates and organic vapour type (A-P)

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|-----------------------------------|
| Physical state | : liquid |
| Colour | : yellow |
| Odour | : characteristic |
| Odour Threshold | : No data available |
| Melting point/freezing point | : No data available |
| Initial boiling point and boiling range | : 100 °C |
| Flammability (solid, gas) | : Not applicable |
| Flammability (liquids) | : No data available |
| Upper explosion limit / Upper flammability limit | : No data available |
| Lower explosion limit / Lower flammability limit | : No data available |
| Flash point | : 70 - < 80 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| pH | : 12,1 Concentration: 100 % |
| Viscosity | |
| Viscosity, dynamic | : 4 mPa.s |
| Viscosity, kinematic | : 4 mm ² /s (40 °C) |
| Solubility(ies) | |
| Water solubility | : soluble |
| Partition coefficient: n-octanol/water | : Not applicable |
| Vapour pressure | : No data available |
| Density | : 1,045 g/cm ³ (20 °C) |
| Relative vapour density | : No data available |

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Particle characteristics
Particle size : Not applicable

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Metal corrosion rate : Corrosive to metals

Evaporation rate : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Combustible liquid.
Vapours may form explosive mixture with air.
Can react with strong oxidizing agents.
May be corrosive to metals.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents
Acids

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure : Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

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Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:

Sodium silicate, pentahydrate:

Acute inhalation toxicity : LC50 (Rat): > 2 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OPPTS 870.1300
Assessment: Corrosive to the respiratory tract.
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OPPTS 870.1200
Remarks: Based on data from similar materials

2-Butoxyethanol:

Acute oral toxicity : LD50 (Guinea pig): 1.200 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 3 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Expert judgement

Acute dermal toxicity : LD50 (Guinea pig): > 2.000 mg/kg

Propan-2-ol:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 25 mg/l
Exposure time: 6 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Alcohols, C12-14, ethoxylated propoxylated:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Method: Directive 67/548/EEC, Annex V, B.1.

Skin corrosion/irritation

Causes skin irritation.

Product:

Result : Skin irritation

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Remarks : Expert judgement

Components:

Sodium silicate, pentahydrate:

| | |
|---------|---|
| Species | : Rabbit |
| Method | : OECD Test Guideline 404 |
| Result | : Corrosive after 3 minutes to 1 hour of exposure |

2-Butoxyethanol:

| | |
|---------|---------------------------------------|
| Species | : Rabbit |
| Method | : Directive 67/548/EEC, Annex V, B.4. |
| Result | : Skin irritation |

Propan-2-ol:

| | |
|---------|----------------------|
| Species | : Rabbit |
| Result | : No skin irritation |

Alcohols, C12-14, ethoxylated propoxylated:

| | |
|---------|---------------------------------------|
| Species | : Rabbit |
| Method | : Directive 67/548/EEC, Annex V, B.4. |
| Result | : No skin irritation |

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Sodium silicate, pentahydrate:

| | |
|---------|-----------------------------------|
| Result | : Irreversible effects on the eye |
| Remarks | : Based on skin corrosivity. |

2-Butoxyethanol:

| | |
|---------|--|
| Species | : Rabbit |
| Method | : OECD Test Guideline 405 |
| Result | : Irritation to eyes, reversing within 21 days |

Propan-2-ol:

| | |
|---------|--|
| Species | : Rabbit |
| Result | : Irritation to eyes, reversing within 21 days |

Alcohols, C12-14, ethoxylated propoxylated:

| | |
|---------|---------------------------------------|
| Species | : Rabbit |
| Method | : Directive 67/548/EEC, Annex V, B.5. |
| Result | : No eye irritation |

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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Sodium silicate, pentahydrate:

| | | |
|-----------------|---|--------------------------------------|
| Test Type | : | Local lymph node assay (LLNA) |
| Exposure routes | : | Skin contact |
| Species | : | Mouse |
| Method | : | OECD Test Guideline 429 |
| Result | : | negative |
| Remarks | : | Based on data from similar materials |

2-Butoxyethanol:

| | | |
|-----------------|---|-------------------------|
| Test Type | : | Maximisation Test |
| Exposure routes | : | Skin contact |
| Species | : | Guinea pig |
| Method | : | OECD Test Guideline 406 |
| Result | : | negative |

Propan-2-ol:

| | | |
|-----------------|---|-------------------------|
| Test Type | : | Buehler Test |
| Exposure routes | : | Skin contact |
| Species | : | Guinea pig |
| Method | : | OECD Test Guideline 406 |
| Result | : | negative |

Alcohols, C12-14, ethoxylated propoxylated:

| | | |
|-----------------|---|-------------------------------------|
| Test Type | : | Maximisation Test |
| Exposure routes | : | Skin contact |
| Species | : | Guinea pig |
| Method | : | Directive 67/548/EEC, Annex V, B.6. |
| Result | : | negative |

Germ cell mutagenicity

Not classified based on available information.

Components:

Sodium silicate, pentahydrate:

| | | |
|-----------------------|---|--|
| Genotoxicity in vitro | : | Test Type: Bacterial reverse mutation assay (AMES) |
| | | Method: OECD Test Guideline 471 |
| | | Result: negative |
| | | Remarks: Based on data from similar materials |

Test Type: Chromosome aberration test in vitro

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- Method: OECD Test Guideline 473
Result: negative
- Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
- Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Species: Mouse
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials
- 2-Butoxyethanol:**
- Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
- Test Type: Chromosome aberration test in vitro
Result: negative
- Test Type: In vitro mammalian cell gene mutation test
Result: negative
- Test Type: In vitro sister chromatid exchange assay in mammalian cells
Result: equivocal
- Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Rat
Application Route: Intraperitoneal injection
Result: negative
- Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative
- Propan-2-ol:**
- Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
- Test Type: In vitro mammalian cell gene mutation test
Result: negative
- Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative

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Alcohols, C12-14, ethoxylated propoxylated:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Carcinogenicity

Not classified based on available information.

Components:

2-Butoxyethanol:

Species : Rat
Application Route : inhalation (vapour)
Exposure time : 2 Years
Result : negative

Propan-2-ol:

Species : Rat
Application Route : inhalation (vapour)
Exposure time : 104 weeks
Method : OECD Test Guideline 451
Result : negative

Reproductive toxicity

Not classified based on available information.

Components:

Sodium silicate, pentahydrate:

Effects on foetal development : Test Type: Embryo-foetal development
Species: Mouse
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

2-Butoxyethanol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Mouse
Application Route: Ingestion
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative

Test Type: Embryo-foetal development
Species: Rat
Application Route: inhalation (vapour)

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Result: negative

Propan-2-ol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative

STOT - single exposure

Not classified based on available information.

Components:

Sodium silicate, pentahydrate:

Assessment : May cause respiratory irritation.
Remarks : Based on national or regional regulation.

Propan-2-ol:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Sodium silicate, pentahydrate:

Species : Rat
NOAEL : > 100 mg/kg
Application Route : Ingestion
Exposure time : 180 Days

Propan-2-ol:

Species : Rat
NOAEL : 12,5 mg/l
Application Route : inhalation (vapour)
Exposure time : 104 Weeks

Aspiration toxicity

Not classified based on available information.

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11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Sodium silicate, pentahydrate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 260 - 310 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.700 mg/l
Exposure time: 48 h
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 345,4 mg/l
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 3.454 mg/l
Exposure time: 0,5 h

2-Butoxyethanol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.464 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.800 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.840 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 679 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

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Toxicity to fish (Chronic toxicity) : NOEC: > 100 mg/l
Exposure time: 21 d
Species: Danio rerio (zebra fish)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 134 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

Propan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10.000 mg/l
Exposure time: 24 h

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 1.050 mg/l
Exposure time: 16 h

Alcohols, C12-14, ethoxylated propoxylated:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1,4 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 18,8 mg/l
Exposure time: 24 h

Toxicity to algae/aquatic plants : EC10 : > 0,1 - < 10 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC50 : > 1 - < 10 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC0 : > 100 mg/l
Method: OECD Test Guideline 209

12.2 Persistence and degradability

Components:

2-Butoxyethanol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 90,4 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Propan-2-ol:

Biodegradability : Result: rapidly degradable

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BOD/COD : BOD: 1.19 (BOD5)
COD: 2.23
BOD/COD: 53 %

Alcohols, C12-14, ethoxylated propoxylated:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 80 %
Method: OECD Test Guideline 301F

12.3 Bioaccumulative potential

Components:

2-Butoxyethanol:

Partition coefficient: n-octanol/water : log Pow: 0,81

Propan-2-ol:

Partition coefficient: n-octanol/water : log Pow: 0,05

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.
According to the European Waste Catalogue, Waste Codes

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are not product specific, but application specific.
Waste codes should be assigned by the user, preferably in
discussion with the waste disposal authorities.
Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
Empty containers retain residue and can be dangerous.
Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.
If not otherwise specified: Dispose of as unused product.

Waste Code : The following Waste Codes are only suggestions:

unused product
20 01 29, detergents containing hazardous substances

used product
20 01 29, detergents containing hazardous substances

uncleaned packagings
15 01 10, packaging containing residues of or contaminated by hazardous substances

Acc. Packaging Act properly emptied packaging:
Properly emptied, non-contaminated packaging of non-hazardous products can be supplied to a system for the collection of sales packaging.

SECTION 14: Transport information

14.1 UN number or ID number

| | |
|------|-----------|
| ADN | : UN 1760 |
| ADR | : UN 1760 |
| RID | : UN 1760 |
| IMDG | : UN 1760 |
| IATA | : UN 1760 |

14.2 UN proper shipping name

| | |
|------|---|
| ADN | : CORROSIVE LIQUID, N.O.S. (Sodium silicate, pentahydrate) |
| ADR | : CORROSIVE LIQUID, N.O.S. (Sodium silicate, pentahydrate) |
| RID | : CORROSIVE LIQUID, N.O.S. (Sodium silicate, pentahydrate) |
| IMDG | : CORROSIVE LIQUID, N.O.S. |

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IATA : (Sodium silicate, pentahydrate)
: Corrosive liquid, n.o.s.
(Sodium silicate, pentahydrate)

14.3 Transport hazard class(es)

| | Class | Subsidiary risks |
|-------------|-------|------------------|
| ADN | : 8 | |
| ADR | : 8 | |
| RID | : 8 | |
| IMDG | : 8 | |
| IATA | : 8 | |

14.4 Packing group

ADN
Packing group : III
Classification Code : C9
Hazard Identification Number : 80
Labels : 8

ADR
Packing group : III
Classification Code : C9
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

RID
Packing group : III
Classification Code : C9
Hazard Identification Number : 80
Labels : 8

IMDG
Packing group : III
Labels : 8
EmS Code : F-A, S-B

IATA (Cargo)
Packing instruction (cargo aircraft) : 856
Packing instruction (LQ) : Y841
Packing group : III
Labels : Corrosive

IATA (Passenger)
Packing instruction (passenger aircraft) : 852
Packing instruction (LQ) : Y841
Packing group : III
Labels : Corrosive

14.5 Environmental hazards

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ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

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Water hazard class (Germany) : WGK 1 slightly hazardous to water
Classification according to AwSV, Annex 1 (5.2)

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 3 %, 31,4 g/l
Remarks: VOC content excluding water

Regulation (EC) No. 648/2004, as amended : less than 5 %: Non-ionic surfactants, EDTA and salts thereof

Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of H-Statements

| | |
|--------|--|
| H225 | : Highly flammable liquid and vapour. |
| H290 | : May be corrosive to metals. |
| H302 | : Harmful if swallowed. |
| H314 | : Causes severe skin burns and eye damage. |
| H315 | : Causes skin irritation. |
| H318 | : Causes serious eye damage. |
| H319 | : Causes serious eye irritation. |
| H331 | : Toxic if inhaled. |
| H335 | : May cause respiratory irritation. |
| H336 | : May cause drowsiness or dizziness. |
| H412 | : Harmful to aquatic life with long lasting effects. |
| EUH071 | : Corrosive to the respiratory tract. |

Full text of other abbreviations

| | |
|-----------------|--|
| Acute Tox. | : Acute toxicity |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard |
| Eye Dam. | : Serious eye damage |
| Eye Irrit. | : Eye irritation |
| Flam. Liq. | : Flammable liquids |
| Met. Corr. | : Corrosive to metals |
| Skin Corr. | : Skin corrosion |
| Skin Irrit. | : Skin irritation |
| STOT SE | : Specific target organ toxicity - single exposure |
| 2000/39/EC | : Europe. Commission Directive 2000/39/EC establishing a first |

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| | |
|-------------------|---|
| | list of indicative occupational exposure limit values |
| DE TRGS 900 | : Germany. TRGS 900 - Occupational exposure limit values. |
| TRGS 903 | : TRGS 903 - Biological limit values |
| 2000/39/EC / TWA | : Limit Value - eight hours |
| 2000/39/EC / STEL | : Short term exposure limit |
| DE TRGS 900 / AGW | : Time Weighted Average |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Classification of the mixture:

| | |
|---------------|------|
| Met. Corr. 1 | H290 |
| Skin Irrit. 2 | H315 |
| Eye Dam. 1 | H318 |

Classification procedure:

| |
|-------------------------------------|
| Based on product data or assessment |
| Based on product data or assessment |
| Based on product data or assessment |

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DE / EN