

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Schemenauer Super Cleaner

Version number: GHS 1.0

Date of compilation: 2023-05-25

SECTION 1: Identification

1.1 Product identifier

Trade name

Schemenauer Super Cleaner

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

Relevant identified uses

Engine cleaner/degreaser
Professional use
Industrial use

HS code

3402.41.90.

1.3 Details of the supplier of the safety data sheet

Schemenauer Distribution LLC
651 Progress Way
Sanford FL 32771

1-407-668-7831
schemenauerdistribution@gmail.com

1.4 Emergency telephone number

Emergency information service

USA 1.800.535.5053, INTL 1.352.323.3500
24 hour emergency number

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|--|----------|---------------------------|------------------|
| A.3 | serious eye damage/eye irritation | 1 | Eye Dam. 1 | H318 |
| A.9 | specific target organ toxicity - repeated exposure | 2 | STOT RE 2 | H373 |
| B.6 | flammable liquid | 4 | Flam. Liq. 4 | H227 |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

- Pictograms

GHS05, GHS08



- Hazard statements

H227

Combustible liquid.

H318

Causes serious eye damage.

H373

May cause damage to organs through prolonged or repeated exposure.

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- Precautionary statements

| | |
|----------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face 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. |
| P310 | Immediately call a poison center/doctor. |
| P370+P378 | In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

- Hazardous ingredients for labelling

EDTA, anhydrous, Alcohols, C9-11 ethoxylated, N,N-Diethoxylated-N-coco-N-methylammonium chloride, disodium cocoamphodipropionate

2.3 Other hazards

This material is combustible, but will not ignite readily.

Hazards not otherwise classified

Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Name of substance | Identifier | Wt% | Classification acc. to GHS |
|--|----------------------|-----------|--|
| 2-(2-butoxyethoxy)ethanol | CAS No 112-34-5 | 1 - < 5 | Eye Irrit. 2 / H319 |
| sodium tripolyphosphate | CAS No 7758-29-4 | 1 - < 5 | Acute Tox. 2 / H330 |
| EDTA, anhydrous | CAS No 64-02-8 | 1 - < 5 | Acute Tox. 4 / H302 Acute Tox. 4 / H332 Eye Dam. 1 / H318 STOT RE 2 / H373 |
| N,N-Diethoxylated-N-coco-N-methylammonium chloride | CAS No 61791-10-4 | 1 - < 5 | Eye Dam. 1 / H318 |
| Alcohols, C9-11 ethoxylated | CAS No 68439-46-3 | 1 - < 5 | Acute Tox. 4 / H302 Acute Tox. 4 / H312 Eye Dam. 1 / H318 |
| disodium cocoamphodipropionate | CAS No 68604-71-7 | 1 - < 5 | Eye Dam. 1 / H318 Flam. Liq. 4 / H227 |
| sodium metasilicate, anhydrous | CAS No 6834-92-0 | 0.1 - < 1 | Acute Tox. 4 / H302 Acute Tox. 3 / H331 Skin Corr. 1B / H314 STOT SE 3 / H335 |

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| Name of substance | Identifier | Wt% | Classification acc. to GHS |
|-------------------|-------------------|-----------|--|
| methanol | CAS No 67-56-1 | 0.1 – < 1 | Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 STOT SE 1 / H370 Flam. Liq. 2 / H225 |

Hazardous ingredients, Consideration of other advice

This table, if present, includes all GHS classified ingredients present above their cut-off limits, even if the finished product is not classified as hazardous by GHS.

Exact percentage of ingredients is withheld as a trade secret.

For full text of abbreviations: see SECTION 16.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

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5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

- Handling of incompatible substances or mixtures

Do not mix with acids.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

Control of the effects

Protect against external exposure, such as

frost

- Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | | |
|--|-----------------------------------|----------|------------|------------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|------------------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
| US | triethanolamine | 102-71-6 | PEL (CA) | | 5 | | | | | | Cal/ OSHA PEL |
| US | triethanolamine | 102-71-6 | TLV® | | 5 | | | | | | AC-GIH® 2019 |
| US | diethylene glycol monobutyl ether | 112-34-5 | TLV® | 10 | | | | | | iv | AC-GIH® 2019 |
| US | methanol | 67-56-1 | TLV® | 200 | | 250 | | | | H | AC-GIH® 2019 |
| US | methyl alcohol | 67-56-1 | REL | 200 (10 h) | 260 (10 h) | 250 | 325 | | | | NIOSH REL |
| US | methyl alcohol | 67-56-1 | PEL | 200 | 260 | | | | | | 29 CFR 1910.1000 |
| US | methyl alcohol (methanol) | 67-56-1 | PEL (CA) | 200 | 260 | 250 | 325 | 1,000 | | | Cal/ OSHA PEL |

Notation

Ceiling-C

H

iv

STEL

TWA

ceiling value is a limit value above which exposure should not occur

absorbed through the skin

inhalable fraction and vapor

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless

otherwise specified)

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted

average (unless otherwise specified)

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Biological limit values

| Country | Name of agent | Parameter | Notation | Identifier | Value | Source |
|---------|---------------|-----------|----------|------------|---------|-------------|
| US | methanol | methanol | | BEI® | 15 mg/l | ACGIH® 2019 |

Relevant DNELs of components of the mixture

| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|--------------------------------|------------|-----------|------------------------|------------------------------------|-------------------|----------------------------|
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | DNEL | 68 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | DNEL | 83 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | DNEL | 68 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | DNEL | 101 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| sodium tripolyphosphate | 7758-29-4 | DNEL | 0.66 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| sodium tripolyphosphate | 7758-29-4 | DNEL | 0.66 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| sodium tripolyphosphate | 7758-29-4 | DNEL | 0.38 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| sodium tripolyphosphate | 7758-29-4 | DNEL | 0.38 mg/kg bw/day | human, dermal | worker (industry) | acute - systemic effects |
| EDTA, anhydrous | 64-02-8 | DNEL | 1.5 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| EDTA, anhydrous | 64-02-8 | DNEL | 3 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| EDTA, anhydrous | 64-02-8 | DNEL | 1.5 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| EDTA, anhydrous | 64-02-8 | DNEL | 3 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | DNEL | 2,080 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | DNEL | 294 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| sodium metasilicate, anhydrous | 6834-92-0 | DNEL | 6.2 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| sodium metasilicate, anhydrous | 6834-92-0 | DNEL | 1.5 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| methanol | 67-56-1 | DNEL | 130 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| methanol | 67-56-1 | DNEL | 130 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| methanol | 67-56-1 | DNEL | 130 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| methanol | 67-56-1 | DNEL | 130 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |

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Relevant DNELs of components of the mixture

| Name of sub-stance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|--------------------|---------|-----------|-----------------|------------------------------------|-------------------|----------------------------|
| methanol | 67-56-1 | DNEL | 20 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| methanol | 67-56-1 | DNEL | 20 mg/kg bw/day | human, dermal | worker (industry) | acute - systemic effects |

Relevant PNECs of components of the mixture

| Name of sub-stance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
|---------------------------|-----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 200 mg/l | microorganisms | sewage treatment plant (STP) | short-term (single instance) |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 4 mg/kg | benthic organisms | sediment | short-term (single instance) |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 56 mg/kg | (top) predators | water | short-term (single instance) |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 3.9 mg/l | aquatic organisms | water | intermittent release |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 0.4 mg/kg | pelagic organisms | sediment | short-term (single instance) |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 200 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 1.1 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 0.11 mg/l | aquatic organisms | marine water | short-term (single instance) |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 4.4 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 0.44 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | PNEC | 0.32 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| sodium tripolyphosphate | 7758-29-4 | PNEC | 0.19 mg/kg | benthic organisms | sediment | short-term (single instance) |
| sodium tripolyphosphate | 7758-29-4 | PNEC | 0.05 mg/l | aquatic organisms | water | intermittent release |
| sodium tripolyphosphate | 7758-29-4 | PNEC | 0.005 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| sodium tripolyphosphate | 7758-29-4 | PNEC | 0.005 mg/l | aquatic organisms | marine water | short-term (single instance) |
| sodium tripolyphosphate | 7758-29-4 | PNEC | 0.19 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| sodium tripolyphosphate | 7758-29-4 | PNEC | 0.14 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| EDTA, anhydrous | 64-02-8 | PNEC | 43 mg/l | microorganisms | sewage treatment plant (STP) | short-term (single instance) |
| EDTA, anhydrous | 64-02-8 | PNEC | 1.2 mg/l | aquatic organisms | water | intermittent release |

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| Relevant PNECs of components of the mixture | | | | | | |
|---|------------|---------------|--------------------|-----------------------|------------------------------|------------------------------|
| Name of sub- stance | CAS No | End- point | Threshold level | Organism | Environmental compartment | Exposure time |
| EDTA, anhydrous | 64-02-8 | PNEC | 2.8 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| EDTA, anhydrous | 64-02-8 | PNEC | 0.28 mg/l | aquatic organisms | marine water | short-term (single instance) |
| EDTA, anhydrous | 64-02-8 | PNEC | 50 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| EDTA, anhydrous | 64-02-8 | PNEC | 1.1 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | PNEC | 0.1 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | PNEC | 0.1 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | PNEC | 1.4 mg/l | microorganisms | sewage treatment plant (STP) | short-term (single instance) |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | PNEC | 14 mg/kg | benthic organisms | sediment | short-term (single instance) |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | PNEC | 14 mg/kg | pelagic organisms | sediment | short-term (single instance) |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | PNEC | 1 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | PNEC | 0.014 mg/l | aquatic organisms | water | intermittent release |
| methanol | 67-56-1 | PNEC | 100 mg/l | microorganisms | sewage treatment plant (STP) | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 77 mg/kg | benthic organisms | sediment | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 7.7 mg/kg | pelagic organisms | sediment | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 1,540 mg/l | aquatic organisms | water | intermittent release |
| methanol | 67-56-1 | PNEC | 21 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 2.1 mg/l | aquatic organisms | marine water | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 100 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 77 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 7.7 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| methanol | 67-56-1 | PNEC | 100 mg/kg | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

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Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|----------------|-----------------------|
| Physical state | liquid |
| Color | yellow |
| Particle | not relevant (liquid) |
| Odor | fresh |

Other safety parameters

| | |
|---|-----------------------------------|
| pH (value) | 13 (25 °C) (base) |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | 90 °C |
| Flash point | 61 °C at 101 kPa closed cup |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | not relevant, (fluid) |
| Vapor pressure | 32 hPa at 25 °C |
| Density | 1 – 1 g/ml |
| Vapor density | this information is not available |
| Relative density | 1.1 at 25 °C (water = 1) |

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Solubility(ies)

| | |
|--------------------|----------------------------|
| - Water solubility | miscible in any proportion |
|--------------------|----------------------------|

Partition coefficient

| | |
|-----------------------------|-----------------------------------|
| - n-octanol/water (log KOW) | this information is not available |
|-----------------------------|-----------------------------------|

| | |
|---------------------------|--|
| Auto-ignition temperature | 210 °C (auto-ignition temperature (liquids and gases)) |
|---------------------------|--|

| | |
|-----------|----------------|
| Viscosity | not determined |
|-----------|----------------|

| | |
|----------------------|------|
| Explosive properties | none |
|----------------------|------|

| | |
|----------------------|------|
| Oxidizing properties | none |
|----------------------|------|

| | |
|--|---|
| Temperature class (USA, acc. to NEC 500) | T3 (maximum permissible surface temperature on the equipment: 200 °C) |
|--|---|

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidizers

Release of flammable materials with:

Light metals (due to the release of hydrogen in an acid/alkaline medium)

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity estimate (ATE) of components of the mixture | | | |
|--|------------|-----------------------|---------------|
| Name of substance | CAS No | Exposure route | ATE |
| sodium tripolyphosphate | 7758-29-4 | inhalation: dust/mist | >0.39 mg/l/4h |
| EDTA, anhydrous | 64-02-8 | oral | >1,780 mg/kg |
| EDTA, anhydrous | 64-02-8 | inhalation: dust/mist | 1.5 mg/l/4h |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | oral | 1,200 mg/kg |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | dermal | 2,000 mg/kg |
| sodium metasilicate, anhydrous | 6834-92-0 | oral | 1,349 mg/kg |
| sodium metasilicate, anhydrous | 6834-92-0 | inhalation: vapor | >2.1 mg/l/4h |
| sodium metasilicate, anhydrous | 6834-92-0 | inhalation: dust/mist | 0.5 mg/l/4h |
| methanol | 67-56-1 | oral | 100 mg/kg |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|--------------------------------|------------|----------|----------------|-----------------------|---------------|
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | LC50 | 1,300 mg/l | fish | 96 h |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | EC50 | >100 mg/l | aquatic invertebrates | 48 h |
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | ErC50 | >100 mg/l | algae | 96 h |
| sodium tripolyphosphate | 7758-29-4 | LC50 | >1,850 mg/l | fish | 24 h |
| sodium tripolyphosphate | 7758-29-4 | EC50 | >100 mg/l | aquatic invertebrates | 48 h |
| EDTA, anhydrous | 64-02-8 | LC50 | >100 mg/l | fish | 96 h |
| EDTA, anhydrous | 64-02-8 | EC50 | >114 mg/l | aquatic invertebrates | 48 h |
| EDTA, anhydrous | 64-02-8 | ErC50 | >60 mg/l | algae | 72 h |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | LC50 | 8.5 mg/l | fathead minnow | 96 h |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | EC50 | 5.3 mg/l | daphnia magna | 48 h |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | ErC50 | 1 – 10 mg/l | algae | 96 h |
| disodium cocoamphodipropionate | 68604-71-7 | LC50 | 1 – 100 mg/l | fish | 72 h |
| disodium cocoamphodipropionate | 68604-71-7 | EC50 | 0.55 – 48 mg/l | algae | 72 h |
| disodium cocoamphodipropionate | 68604-71-7 | EC50 | 6.5 mg/l | daphnia | 48 h |
| sodium metasilicate, anhydrous | 6834-92-0 | LC50 | 310 mg/l | fish | 96 h |
| sodium metasilicate, anhydrous | 6834-92-0 | EC50 | 1,700 mg/l | aquatic invertebrates | 48 h |
| methanol | 67-56-1 | LC50 | 15,400 mg/l | fish | 96 h |
| methanol | 67-56-1 | EC50 | 12,700 mg/l | fish | 96 h |
| methanol | 67-56-1 | ErC50 | 22,000 mg/l | algae | 96 h |

Aquatic toxicity (chronic) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|-------------------------|-----------|----------|-------------|---------|---------------|
| sodium tripolyphosphate | 7758-29-4 | LC50 | >1,850 mg/l | fish | 24 h |
| sodium tripolyphosphate | 7758-29-4 | ErC50 | >900 mg/l | algae | 7 d |
| sodium tripolyphosphate | 7758-29-4 | EC50 | 69 mg/l | algae | 4 d |

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Aquatic toxicity (chronic) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|--------------------------------|-----------|----------|-----------|-----------------------|---------------|
| EDTA, anhydrous | 64-02-8 | EC50 | 625 mg/l | aquatic invertebrates | 24 h |
| sodium metasilicate, anhydrous | 6834-92-0 | EC50 | >100 mg/l | microorganisms | 3 h |

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | | |
|------|------------------------------|---|
| 14.1 | UN number | not subject to transport regulations |
| 14.2 | UN proper shipping name | not relevant |
| 14.3 | Transport hazard class(es) | none |
| 14.4 | Packing group | not assigned |
| 14.5 | Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 | Special precautions for user | There is no additional information. |

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14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Not subject to transport regulations.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA) all ingredients are listed (ACTIVE)

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

| Toxics Release Inventory: Specific Toxic Chemical Listings | | | |
|--|---------|---------|----------------|
| Name of substance | CAS No | Remarks | Effective date |
| methanol | 67-56-1 | | 1986-12-31 |

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

| Name of substance | CAS No | Remarks | Statutory code | Final RQ pounds (Kg) |
|-------------------|---------|---------|----------------|----------------------|
| methanol | 67-56-1 | | 3 4 | 5000 (2270) |

Legend

3 "3" indicates that the source is section 112 of the Clean Air Act

4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

| Name of substance | CAS No | Functionality | Authoritative Lists |
|---------------------------|-----------|-----------------------|---------------------|
| water | 7732-18-5 | solvent | |
| 2-(2-butoxyethoxy)ethanol | | co-solvent | CA TACs |
| sodium tripolyphosphate | 7758-29-4 | water softener | |
| EDTA, anhydrous | 64-02-8 | chelate / sequestrant | |

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| Name of substance | CAS No | Functionality | Authoritative Lists |
|--|--------------------------|----------------------------|---|
| triethanolamine | 102-71-6 | pH adjusting agent | |
| N,N-Diethoxylated-N-coco-N-methylammonium chloride | 61791-10-4 | surfactant | |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | surfactant | |
| disodium cocoamphodipropionate | 68604-71-7 | surfactant | |
| sodium metasilicate, anhydrous | 6834-92-0 | cleaning agent | |
| methanol | 67-56-1 | alcohols | CA TACs NTP OHAT - Repr. or Dev. Toxicants OEHA RELs Prop 65 |
| benzyl benzoate | 120-51-4 | fragrance | EU Fragrance Allergens |
| 3-Methyl-5-phenyl-n-pentanol | 55066-48-3 90866-30-1 | fragrance | |
| cocoyl hydroxyethylimidazoline | 61791-38-6 | non-functional constituent | |

- Toxic or Hazardous Substance List (MA-TURA)

| Name of substance | CAS No | DEP CODE | PBT / HHS / LHS | PBT / HHS Threshold | De Minimis Concentration Threshold |
|---------------------------|-----------|----------|-----------------|---------------------|------------------------------------|
| methanol | 67-56-1 | | | | 1.0 % |
| 2-(2-butoxyethoxy)ethanol | | 1022 | | | 1.0 % |
| sodium tripolyphosphate | 7758-29-4 | | | | 1.0 % |

- Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No | Remarks | Classifications |
|---------------------------|---------|---------|-----------------|
| methanol | 67-56-1 | | TE F3 |
| 2-(2-butoxyethoxy)ethanol | | | |

Legend

F3 Flammable - Third Degree
TE Teratogenic

- Hazardous Substance List (Chapter 323) (PA-RTK)

| Name acc. to inventory | CAS No | Classification |
|--------------------------------------|-----------|----------------|
| METHANOL | 67-56-1 | E |
| GLYCOL ETHERS | | E |
| TRIPHOSPHORIC ACID, PENTASODIUM SALT | 7758-29-4 | E |

Legend

E Environmental hazard

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- Hazardous Substance List (RI-RTK)

| Name of substance | CAS No | References |
|-------------------|---------|------------|
| methanol | 67-56-1 | T, F |

Legend

F Flammability (NFPA®)
T Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals

| Name of substance | Name acc. to inventory | CAS No | Wt% | Remarks | Type of the toxicity |
|---------------------|------------------------|----------|--------|---------|----------------------|
| methanol | methanol | 67-56-1 | 0.14 | | developmental |
| 2,2'-iminodiethanol | diethanolamine | 111-42-2 | 0.0056 | | cancer |

VOC content

- Regulated Volatile Organic Compounds (VOC-EPA) 0.19 %
- Regulated Volatile Organic Compounds (VOC-Cal ARB) 0.19 %

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category | Rating | Description |
|---------------------|--------|--|
| Chronic | * | chronic (long-term) health effects may result from repeated overexposure |
| Health | 3 | major injury likely unless prompt action is taken and medical treatment is given |
| Flammability | 2 | material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur |
| Physical hazard | 0 | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | - | |

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category | Degree of hazard | Description |
|----------------|------------------|--|
| Flammability | 2 | material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur |
| Health | 3 | material that, under emergency conditions, can cause serious or permanent injury |
| Instability | 0 | material that is normally stable, even under fire conditions |
| Special hazard | | |

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National inventories

| Country | Inventory | Status |
|---------|------------|-------------------------------------|
| CA | DSL | all ingredients are listed |
| EU | REACH Reg. | not all ingredients are listed |
| US | TSCA | all ingredients are listed (ACTIVE) |
| AU | AIIC | not all ingredients are listed |
| CN | IECSC | not all ingredients are listed |
| EU | ECSI | not all ingredients are listed |
| JP | CSCL-ENCS | not all ingredients are listed |
| JP | ISHA-ENCS | not all ingredients are listed |
| KR | KECI | not all ingredients are listed |
| MX | INSQ | not all ingredients are listed |
| NZ | NZIoC | not all ingredients are listed |
| PH | PICCS | not all ingredients are listed |
| TR | CICR | not all ingredients are listed |
| TW | TCSI | not all ingredients are listed |

Legend

| | |
|------------|---|
| AIIC | Australian Inventory of Industrial Chemicals |
| CICR | Chemical Inventory and Control Regulation |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS) |
| DSL | Domestic Substances List (DSL) |
| ECSI | EC Substance Inventory (EINECS, ELINCS, NLP) |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ | National Inventory of Chemical Substances |
| ISHA-ENCS | Inventory of Existing and New Chemical Substances (ISHA-ENCS) |
| KECI | Korea Existing Chemicals Inventory |
| NZIoC | New Zealand Inventory of Chemicals |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg. | REACH registered substances |
| TCSI | Taiwan Chemical Substance Inventory |
| TSCA | Toxic Substance Control Act |

15.2 Chemical Safety Assessment

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

SECTION 16: Other information, including date of preparation or last revision

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|------------------|--|
| 29 CFR 1910.1000 | 29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits) |
| 49 CFR US DOT | 49 CFR U.S. Department of Transportation |
| ACGIH® | American Conference of Governmental Industrial Hygienists |
| ACGIH® 2019 | From ACGIH®, 2019 TLVs® and BEIs® Book. Copyright 2019. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement |
| Acute Tox. | Acute toxicity |
| ATE | Acute Toxicity Estimate |
| Cal/OSHA PEL | California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs) |

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| Abbr. | Descriptions of used abbreviations |
|----------------|--|
| Cal ARB | California Air Resources Board |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DEP CODE | Department of Environmental Protection Code |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EPA | Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment |
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| Flam. Liq. | Flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| HHS | Higher hazard substance |
| HS | Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation) |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| LHS | Lower hazard substance |
| NFPA® | National Fire Protection Association (United States) |
| NIOSH REL | National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs) |
| NLP | No-Longer Polymer |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition |
| OSHA | Occupational Safety and Health Administration (United States) |
| PBT | Persistent, Bioaccumulative and Toxic |
| PEL | Permissible exposure limit |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| RTECS | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) |
| Skin Corr. | Corrosive to skin |

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| Abbr. | Descriptions of used abbreviations |
|-------------|--|
| Skin Irrit. | Irritant to skin |
| STEL | Short-term exposure limit |
| STOT RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |
| TLV® | Threshold Limit Values |
| TWA | Time-weighted average |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|--|
| H225 | Highly flammable liquid and vapor. |
| H227 | Combustible liquid. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H370 | Causes damage to organs. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.