



Horizon Boost

Revision: 2018-07-29

Version: 04.0

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

1.1 Product identifier

Trade name: Horizon Boost

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

Identified uses:

For professional use only.

AISE-P103 - Laundry detergent. Manual process

AISE-P102 - Laundry detergent. Semi-automatic process

Uses advised against: Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, Maarssebroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@diversey.com

1.4 Emergency telephone number

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin Corr. 1B (H314)

2.2 Label elements



Signal word: Danger.

Contains disodium metasilicate pentahydrate (Sodium Metasilicate)

Hazard statements:

H314 - Causes severe skin burns and eye damage.

Precautionary statements:

P260 - Do not breathe dust.

P280 - Wear protective gloves, protective clothing and eye or face protection.

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

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 CENTRE, doctor or physician.

2.3 Other hazards

No other hazards known

SECTION 3: Composition/information on ingredients

3.2 Mixtures

| Ingredient(s) | EC number | CAS number | REACH number | Classification | Notes | Weight percent |
|---------------|-----------|------------|--------------|----------------|-------|----------------|
|---------------|-----------|------------|--------------|----------------|-------|----------------|

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| | | | | | |
|------------------------------------|-----------|------------|------------------|---|-------|
| disodium metasilicate pentahydrate | 229-912-9 | 10213-79-3 | 01-2119449811-37 | Skin Corr. 1B (H314) STOT SE 3 (H335) Met. Corr. 1 (H290) | >= 75 |
| alkyl alcohol ethoxylate | Polymer* | 69011-36-5 | [4] | Acute Tox. 4 (H302) Eye Dam. 1 (H318) | 1-3 |

* Polymer.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General Information:

If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

Inhalation:

Get medical attention or advice if you feel unwell.

Skin contact:

Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician.

Eye contact:

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

Ingestion:

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:

No known effects or symptoms in normal use.

Skin contact:

Causes severe burns.

Eye contact:

Causes severe or permanent damage.

Ingestion:

Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable protective clothing, gloves and eye/face protection.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up

Collect mechanically. Ensure adequate ventilation.

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe dust. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Biological limit values, if available:

Additional exposure limits under the conditions of use, if available:

DNEL/DMEL and PNEC values**Human exposure**

DNEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|------------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| disodium metasilicate pentahydrate | - | - | - | 0.74 |
| alkyl alcohol ethoxylate | - | - | - | - |

DNEL dermal exposure - Worker

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|------------------------------------|----------------------------|--|---------------------------|---|
| disodium metasilicate pentahydrate | - | - | - | 1.49 |
| alkyl alcohol ethoxylate | - | - | - | - |

DNEL dermal exposure - Consumer

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|------------------------------------|----------------------------|--|---------------------------|---|
| disodium metasilicate pentahydrate | - | - | - | 0.74 |
| alkyl alcohol ethoxylate | - | - | - | - |

DNEL inhalatory exposure - Worker (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|------------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| disodium metasilicate pentahydrate | - | - | - | 6.22 |
| alkyl alcohol ethoxylate | - | - | - | No data available |

DNEL inhalatory exposure - Consumer (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|------------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| disodium metasilicate pentahydrate | - | - | - | 1.55 |
| alkyl alcohol ethoxylate | No data available | No data available | - | - |

Environmental exposure

Environmental exposure - PNEC

| Ingredient(s) | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|------------------------------------|-----------------------------|------------------------------|---------------------|-------------------------------|
| disodium metasilicate pentahydrate | 7.5 | 1 | 7.5 | 1000 |
| alkyl alcohol ethoxylate | - | - | - | - |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m ³) |
|------------------------------------|------------------------------|--------------------------|-------------------|--------------------------|
| disodium metasilicate pentahydrate | No data available | No data available | No data available | - |
| alkyl alcohol ethoxylate | - | - | - | - |

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8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

Appropriate engineering controls: If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Eye / face protection:

Safety glasses or goggles (EN 166).

Hand protection:

Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

Body protection:

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN ISO 13982-1).

Respiratory protection:

If exposure to dust cannot be avoided use: half mask (EN 140) with particle filter P2 (EN 143) or full-face mask (EN 136) with particle filter P1 (EN 143) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen.

Environmental exposure controls: Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 1

Appropriate engineering controls: Provide a good standard of general ventilation.

Appropriate organisational controls: No special requirements under normal use conditions.

Personal protective equipment

Eye / face protection:

No special requirements under normal use conditions.

Hand protection:

No special requirements under normal use conditions.

Body protection:

No special requirements under normal use conditions.

Respiratory protection:

No special requirements under normal use conditions.

Environmental exposure controls: No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

| | Method / remark |
|---|--|
| Physical State: Solid | |
| Colour: White | |
| Odour: Product specific | |
| Odour threshold: Not applicable | |
| pH: Not applicable. | |
| Dilution pH: > 12 (1%) | ISO 4316 |
| Melting point/freezing point (°C): Not determined | Not relevant to classification of this product |
| Initial boiling point and boiling range (°C): Not determined | Not applicable to solids or gases |

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|------------------------------------|-----------------------------------|------------------|----------------------------|
| disodium metasilicate pentahydrate | Not applicable to solids or gases | | |
| alkyl alcohol ethoxylate | > 200 | Method not given | |

Method / remark

Flash point (°C): Not applicable.

Sustained combustion: Not applicable.

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(UN Manual of Tests and Criteria, section 32, L.2)

Evaporation rate: Not determined
Flammability (solid, gas): Not determined
Upper/lower flammability limit (%): Not determined

Not relevant to classification of this product

Substance data, flammability or explosive limits, if available:

Vapour pressure: Not determined

Method / remark
See substance data

Substance data, vapour pressure

| Ingredient(s) | Value (Pa) | Method | Temperature (°C) |
|------------------------------------|----------------|------------------|------------------|
| disodium metasilicate pentahydrate | Not applicable | | |
| alkyl alcohol ethoxylate | Negligible | Method not given | 20-25 |

Method / remark
Not relevant to classification of this product
OECD 109 (EU A.3)

Vapour density: Not determined
Relative density: ≈ 0.97 (20 °C)
Solubility in / Miscibility with Water: Soluble

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|------------------------------------|-------------|------------------|------------------|
| disodium metasilicate pentahydrate | Soluble | | |
| alkyl alcohol ethoxylate | Soluble | Method not given | 20 |

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
Viscosity: Not determined
Explosive properties: Not explosive.
Oxidising properties: Not oxidising.

Method / remark
Not applicable to solids or gases

9.2 Other information

Surface tension (N/m): Not determined
Corrosion to metals: Not determined

Not relevant to classification of this product
Not applicable to solids or gases

Substance data, dissociation constant, if available:

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

Reacts with acids.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:

Relevant calculated ATE(s):
ATE - Oral (mg/kg): >2000

Substance data, where relevant and available, are listed below:

Acute toxicity

Acute oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|------------------------------------|------------------|---------------|---------|------------------------|-------------------|
| disodium metasilicate pentahydrate | LD ₅₀ | 1152 - 1349 | Rat | Method not given | |
| alkyl alcohol ethoxylate | LD ₅₀ | > 300 - 2000 | Rat | OECD 423 (EU B.1 tris) | |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|------------------------------------|------------------|---------------|---------|------------------|-------------------|
| disodium metasilicate pentahydrate | LD ₅₀ | > 5000 | Rat | Method not given | |
| alkyl alcohol ethoxylate | LD ₅₀ | > 2000 | Rabbit | Method not given | |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|------------------------------------|------------------|-------------------|---------|------------------|-------------------|
| disodium metasilicate pentahydrate | LC ₅₀ | > 2.06 (mist) | Rat | Method not given | 4 |
| alkyl alcohol ethoxylate | | No data available | | | |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|------------------------------------|--------------|---------|-------------------|---------------|
| disodium metasilicate pentahydrate | Corrosive | Rabbit | OECD 404 (EU B.4) | |
| alkyl alcohol ethoxylate | Not irritant | Rabbit | OECD 404 (EU B.4) | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|------------------------------------|---------------|---------|------------------|---------------|
| disodium metasilicate pentahydrate | Corrosive | Rabbit | Method not given | |
| alkyl alcohol ethoxylate | Severe damage | Rabbit | Method not given | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|------------------------------------|-------------------|---------|--------|---------------|
| disodium metasilicate pentahydrate | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|------------------------------------|-----------------|------------|------------------|-------------------|
| disodium metasilicate pentahydrate | Not sensitising | | Method not given | |
| alkyl alcohol ethoxylate | Not sensitising | Guinea pig | Method not given | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|------------------------------------|-------------------|---------|--------|---------------|
| disodium metasilicate pentahydrate | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

| Ingredient(s) | Result (in-vitro) | Method (in-vitro) | Result (in-vivo) | Method (in-vivo) |
|------------------------------------|--|-------------------|--|------------------|
| disodium metasilicate pentahydrate | No evidence of genotoxicity, negative test results | | No evidence of genotoxicity, negative test results | |
| alkyl alcohol ethoxylate | No evidence of genotoxicity, negative test results | Method not given | No evidence of genotoxicity, negative test results | Method not given |

Carcinogenicity

| Ingredient(s) | Effect |
|------------------------------------|---|
| disodium metasilicate pentahydrate | No data available |
| alkyl alcohol ethoxylate | No evidence for carcinogenicity, weight-of-evidence |

Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|------------------------------------|----------|---------------------|--------------------|---------|-----------|---------------|---|
| disodium metasilicate pentahydrate | | | No data available | | | | No evidence for reproductive toxicity No evidence for developmental toxicity |
| alkyl alcohol ethoxylate | NOAEL | Teratogenic effects | > 50 | Rat | Not known | | No known significant effects or critical hazards |

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure | Specific effects and organs |
|---------------|----------|-------|---------|--------|----------|-----------------------------|
|---------------|----------|-------|---------|--------|----------|-----------------------------|

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| | (mg/kg bw/d) | time (days) | affected |
|------------------------------------|-------------------|-------------|----------|
| disodium metasilicate pentahydrate | No data available | | |
| alkyl alcohol ethoxylate | No data available | | |

Sub-chronic dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|------------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| disodium metasilicate pentahydrate | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |

Sub-chronic inhalation toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|------------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| disodium metasilicate pentahydrate | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |

Chronic toxicity

| Ingredient(s) | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|------------------------------------|----------------|----------|--------------------|---------|------------------|---------------|--------------------------------------|--------|
| disodium metasilicate pentahydrate | | NOAEL | 227 | Rat | Method not given | | | |
| alkyl alcohol ethoxylate | Oral | NOAEL | 50 | Rat | Method not given | 24 month(s) | Effects on organ weights | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|------------------------------------|-------------------|
| disodium metasilicate pentahydrate | Respiratory tract |
| alkyl alcohol ethoxylate | Not applicable |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|------------------------------------|-------------------|
| disodium metasilicate pentahydrate | No data available |
| alkyl alcohol ethoxylate | Not applicable |

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|------------------------------------|------------------|--------------|--------------------------|-------------------|-------------------|
| disodium metasilicate pentahydrate | LC ₅₀ | 210 | <i>Brachydanio rerio</i> | Method not given | 96 |
| alkyl alcohol ethoxylate | LC ₅₀ | 1 - 10 | <i>Cyprinus carpio</i> | OECD 203 (EU C.1) | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|------------------------------------|------------------|--------------|-----------------------------|------------------|-------------------|
| disodium metasilicate pentahydrate | EC ₅₀ | 216 | <i>Daphnia magna Straus</i> | Method not given | 96 |
| alkyl alcohol ethoxylate | EC ₅₀ | 1 - 10 | <i>Daphnia magna Straus</i> | OECD 202, static | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|------------------------------------|------------------|--------------|--------------------------------|------------------|-------------------|
| disodium metasilicate pentahydrate | EC ₅₀ | 207 | <i>Desmodesmus subspicatus</i> | Method not given | 72 |
| alkyl alcohol ethoxylate | EC ₅₀ | 1 - 10 | <i>Desmodesmus</i> | OECD 201, static | 72 |

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| | | | | |
|--|--|--|--------------------|--|
| | | | <i>subspicatus</i> | |
|--|--|--|--------------------|--|

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|------------------------------------|----------|-------------------|---------|--------|----------------------|
| disodium metasilicate pentahydrate | | No data available | | | - |
| alkyl alcohol ethoxylate | | No data available | | | - |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|------------------------------------|------------------|--------------|---------------------------|--------------------|---------------|
| disodium metasilicate pentahydrate | EC ₀ | > 1000 | <i>Pseudomonas putida</i> | Method not given | 0.5 hour(s) |
| alkyl alcohol ethoxylate | EC ₁₀ | > 10000 | <i>Activated sludge</i> | DIN 38412 / Part 8 | 17 hour(s) |

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|------------------------------------|----------|-------------------|---------|--------|---------------|------------------|
| disodium metasilicate pentahydrate | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|------------------------------------|----------|-------------------|---------|--------|---------------|------------------|
| disodium metasilicate pentahydrate | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|------------------------------------|----------|---------------------------|---------|--------|----------------------|------------------|
| disodium metasilicate pentahydrate | | No data available | | | - | |
| alkyl alcohol ethoxylate | | No data available | | | - | |

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------------------------|----------|-----------------------|-----------------------|--------|----------------------|------------------|
| disodium metasilicate pentahydrate | | No data available | | | - | |
| alkyl alcohol ethoxylate | NOEC | 220 | <i>Eisenia fetida</i> | | - | |

Terrestrial toxicity - plants, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------------------------|----------|-----------------------|-------------------------|----------|----------------------|------------------|
| disodium metasilicate pentahydrate | | No data available | | | - | |
| alkyl alcohol ethoxylate | NOEC | 10 | <i>Lepidium sativum</i> | OECD 208 | - | |

Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure time (days) | Effects observed |
|------------------------------------|----------|-------------------|---------|--------|----------------------|------------------|
| disodium metasilicate pentahydrate | | No data available | | | - | |
| alkyl alcohol ethoxylate | | No data available | | | - | |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| disodium metasilicate pentahydrate | | No data available | | | - | |
| alkyl alcohol ethoxylate | | No data available | | | - | |

Terrestrial toxicity - soil bacteria, if available:

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| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| disodium metasilicate pentahydrate | | No data available | | | - | |
| alkyl alcohol ethoxylate | | No data available | | | - | |

12.2 Persistence and degradability**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT ₅₀ | Method | Evaluation |
|------------------------------------|--------------------------|----------------------------|---------------------|-----------|--------------------------------------|
| disodium metasilicate pentahydrate | | | | | Not applicable (inorganic substance) |
| alkyl alcohol ethoxylate | Activated sludge, aerobe | CO ₂ production | > 60 % in 28 day(s) | OECD 301B | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log K_{ow})

| Ingredient(s) | Value | Method | Evaluation | Remark |
|------------------------------------|-------------------|--------|-----------------------------|--------|
| disodium metasilicate pentahydrate | No data available | | No bioaccumulation expected | |
| alkyl alcohol ethoxylate | No data available | | | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|------------------------------------|-------------------|---------|--------|------------|--------|
| disodium metasilicate pentahydrate | No data available | | | | |
| alkyl alcohol ethoxylate | No data available | | | | |

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

| Ingredient(s) | Adsorption coefficient Log K _{oc} | Desorption coefficient Log K _{oc(des)} | Method | Soil/sediment type | Evaluation |
|------------------------------------|--|---|--------|--------------------|--|
| disodium metasilicate pentahydrate | No data available | | | | Potential for mobility in soil, soluble in water |
| alkyl alcohol ethoxylate | No data available | | | | Immobile in soil or sediment |

12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

12.6 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste from residues / unused products:

European Waste Catalogue:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.
20 01 15* - alkalines.

Empty packaging

Recommendation:

Dispose of observing national or local regulations.

SECTION 14: Transport information



Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number: 3262

14.2 UN proper shipping name:

Corrosive solid, basic, inorganic, n.o.s. (disodium trioxosilicate)

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 8

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers.

Other relevant information:

ADR

Classification code: C6

Tunnel restriction code: E

Hazard identification number: 80

IMO/IMDG

EmS: F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

SECTION 15: Regulatory information

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

EU regulations:

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No. 648/2004 - Detergents regulation

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

UFI: XS50-P0TN-4002-08H3

Ingredients according to EC Detergents Regulation 648/2004

| | |
|-----------------------|----------|
| phosphates | 5 - 15 % |
| non-ionic surfactants | < 5 % |

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

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Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Full text of the H and EUH phrases mentioned in section 3:

- H290 - May be corrosive to metals.
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.

- H335 - May cause respiratory irritation.
- H402 - Harmful to aquatic life.

Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- OECD - Organization for Economic Cooperation and Development

End of Safety Data Sheet