

Horizon Bright

Revision: 2024-08-09

Version: 03.1

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

1.1 Product identifier

Trade name: Horizon Bright

UFI: SM27-G05H-200T-SN2T

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

Product use: Laundry aid.
For professional use only.

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

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_8a_2
AISE_SWED_PW_8b_2
AISE_SWED_PW_1_1
AISE_SWED_PW_4_1

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssebroeksedijk 2, 3542DN Utrecht], The Netherlands

Tel: 01 8081808 (9am - 5pm Mon-Fri)

Email: dublin.orders@solenis.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible).

National Poisons Information Centre

Tel: 01 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)

Tel: 01 809 2566 (health care professionals).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Serious eye damage, Category 1 (H318)

2.2 Label elements



Signal word: Danger.

Contains 6-(phthalimido)peroxyhexanoic acid (Phthalimidoperoxyhexanoic Acid)

Hazard statements:

H318 - Causes serious eye damage.

Precautionary statements:

P280 - Wear eye or 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 CENTRE, doctor or physician.

2.3 Other hazards

No other hazards known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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| Ingredient(s) | EC number | CAS number | REACH number | Classification | Notes | Weight percent |
|--|-----------|-------------|----------------------|--|-------|----------------|
| 6-(phthalimido)peroxyhexanoic acid | 410-850-8 | 128275-31-0 | [6] | Organic peroxides, Type D (H242) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 M=1 (H400) | | 10-20 |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | 231-025-7 | 7414-83-7 | 01-211951038 2-52 | Acute toxicity - Oral, Category 4 (H302) Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319) | | 1-3 |

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

ATE, if available, are listed in section 11.

[6] Exempted: biocidal active. See Article 15(2) 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

Inhalation:

Get medical attention or advice if you feel unwell.

Skin contact:

Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

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. Get medical attention or advice if you feel unwell.

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:

No known effects or symptoms in normal use.

Eye contact:

Causes severe or permanent damage.

Ingestion:

No known effects or symptoms in normal use.

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

Wear eye/face protection.

6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

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:

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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. Avoid contact with eyes. 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:

Recommended monitoring procedures, if available:**Additional exposure limits under the conditions of use, if available:****DNEL/DMEL and PNEC values****Human exposure**

DNEL/DMEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| 6-(phthalimido)peroxyhexanoic acid | No data available | No data available | No data available | No data available |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | No data available | No data available | No data available |

DNEL/DMEL 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) |
|---|----------------------------|--|---------------------------|---|
| 6-(phthalimido)peroxyhexanoic acid | No data available | No data available | No data available | No data available |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | No data available | No data available | No data available |

DNEL/DMEL 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) |
|---|----------------------------|--|---------------------------|---|
| 6-(phthalimido)peroxyhexanoic acid | No data available | No data available | No data available | No data available |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | No data available | No data available | No data available |

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| 6-(phthalimido)peroxyhexanoic acid | No data available | No data available | No data available | No data available |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | No data available | No data available | No data available |

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| 6-(phthalimido)peroxyhexanoic acid | No data available | No data available | No data available | No data available |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | No data available | 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) |
|---|-----------------------------|------------------------------|---------------------|-------------------------------|
| 6-(phthalimido)peroxyhexanoic acid | No data available | No data available | No data available | No data available |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | No data available | No data available | No data available |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m ³) |
|---------------|------------------------------|--------------------------|--------------|--------------------------|
| | | | | |

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| | | | | |
|---|-------------------|-------------------|-------------------|-------------------|
| 6-(phthalimido)peroxyhexanoic acid | No data available | No data available | No data available | No data available |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | No data available | No data available | No data available |

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:

- 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.

REACH use scenarios considered for the undiluted product:

| | SWED - Sector-specific worker exposure description | LCS | PROC | Duration (min) | ERC |
|---------------------------------|--|-----|---------|----------------|-------|
| Manual transfer and dilution | AISE_SWED_PW_8a_2 | PW | PROC 8a | 60 | ERC8a |
| Automatic transfer and dilution | AISE_SWED_PW_8b_2 | PW | PROC 8b | 60 | ERC8b |

Personal protective equipment

- Eye / face protection:** Safety glasses or goggles (EN 16321 / EN 166).
- 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.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 1

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

REACH use scenarios considered for the diluted product:

| | SWED | LCS | PROC | Duration (min) | ERC |
|--|------------------|-----|--------|----------------|-------|
| Automatic application in a dedicated closed system | AISE_SWED_PW_1_1 | PW | PROC 1 | 480 | ERC8a |
| Automatic application in a dedicated system | AISE_SWED_PW_4_1 | PW | PROC 4 | 480 | ERC8a |

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: Liquid | |
| Colour: Milky , White | |
| Odour: Product specific | |
| Odour threshold: Not applicable | |
| Melting point/freezing point (°C): Not determined | Not relevant to classification of this product |
| Initial boiling point and boiling range (°C): Not determined | See substance data |

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|---|-------------------|--------|----------------------------|
| 6-(phthalimido)peroxyhexanoic acid | No data available | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | | |

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Method / remark

Flammability (solid, gas): Not applicable to liquids

Flammability (liquid): Not flammable.

Flash point (°C): Not applicable.

Sustained combustion: Not applicable.

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

Lower and upper explosion limit/flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark

Autoignition temperature: 470

Decomposition temperature: > 80 (°C) SADT (self-accelerating decomposition temperature)

pH: ≈ 4 (neat)

ISO 4316

Kinematic viscosity: ≈ 550 mPa.s (20 °C)

Solubility in / Miscibility with water: Fully miscible

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|---|-------------------|--------|------------------|
| 6-(phthalimido)peroxyhexanoic acid | No data available | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | | |

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

Method / remark

Vapour pressure: Not determined

See substance data

Substance data, vapour pressure

| Ingredient(s) | Value (Pa) | Method | Temperature (°C) |
|---|-------------------|--------|------------------|
| 6-(phthalimido)peroxyhexanoic acid | No data available | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | | |

Relative density: ≈ 1.01 (20 °C)

Relative vapour density: No data available.

Particle characteristics: No data available.

Method / remark

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties: Not explosive.

Oxidising properties: Not oxidising.

Corrosion to metals: Not corrosive

Weight of evidence

9.2.2 Other safety characteristics

No other relevant information 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

None known under normal use conditions.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

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

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) | ATE Oral (mg/kg) |
|---|------------------|-------------------|---------|-------------------|-------------------|------------------|
| 6-(phthalimido)peroxyhexanoic acid | LD ₅₀ | 2550 | Rat | OECD 401 (EU B.1) | | Not established |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | No data available | | | | Not established |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE Dermal (mg/kg) |
|---|------------------|-------------------|---------|-------------------|-------------------|--------------------|
| 6-(phthalimido)peroxyhexanoic acid | LD ₅₀ | > 2000 | Rat | OECD 402 (EU B.3) | | Not established |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | No data available | | | | Not established |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|----------|-------------------|---------|--------|-------------------|
| 6-(phthalimido)peroxyhexanoic acid | | No data available | | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | No data available | | | |

Acute inhalative toxicity, continued

| Ingredient(s) | ATE - inhalation, dust (mg/l) | ATE - inhalation, mist (mg/l) | ATE - inhalation, vapour (mg/l) | ATE - inhalation, gas (mg/l) |
|---|-------------------------------|-------------------------------|---------------------------------|------------------------------|
| 6-(phthalimido)peroxyhexanoic acid | Not established | Not established | Not established | Not established |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | Not established | Not established | Not established | Not established |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|-------------------|---------------|
| 6-(phthalimido)peroxyhexanoic acid | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | | | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|-------------------|---------------|
| 6-(phthalimido)peroxyhexanoic acid | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | | | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| 6-(phthalimido)peroxyhexanoic acid | No data available | | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|-------------------|------------|--------------------------|-------------------|
| 6-(phthalimido)peroxyhexanoic acid | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | | | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| 6-(phthalimido)peroxyhexanoic acid | No data available | | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | | | |

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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Mutagenicity

| Ingredient(s) | Result (in-vitro) | Method (in-vitro) | Result (in-vivo) | Method (in-vivo) |
|---|-------------------|-------------------|-------------------|------------------|
| 6-(phthalimido)peroxyhexanoic acid | No data available | | No data available | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|---|-------------------|
| 6-(phthalimido)peroxyhexanoic acid | No data available |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available |

Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|---|----------|-----------------|--------------------|---------|--------|---------------|------------------------------------|
| 6-(phthalimido)peroxyhexanoic acid | | | No data available | | | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | | No data available | | | | |

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| 6-(phthalimido)peroxyhexanoic acid | | No data available | | | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | 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 |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| 6-(phthalimido)peroxyhexanoic acid | | No data available | | | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | 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 |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| 6-(phthalimido)peroxyhexanoic acid | | No data available | | | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | 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 |
|---|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| 6-(phthalimido)peroxyhexanoic acid | | | No data available | | | | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|-------------------|
| 6-(phthalimido)peroxyhexanoic acid | No data available |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|-------------------|
| 6-(phthalimido)peroxyhexanoic acid | No data available |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available |

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

Potential adverse health effects and symptoms

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

11.2 Information on other hazards

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11.2.1 Endocrine disrupting properties

Endocrine disrupting properties - Human data, if available:

11.2.2 Other information

No other relevant information available.

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) |
|---|------------------|-------------------|--------------------------|-----------------------|-------------------|
| 6-(phthalimido)peroxyhexanoic acid | LC ₅₀ | 0.4 | <i>Brachydanio rerio</i> | OECD 203, semi-static | 96 |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | No data available | | | |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|------------------|-------------------|-----------------------------|------------------|-------------------|
| 6-(phthalimido)peroxyhexanoic acid | EC ₅₀ | 17.6 | <i>Daphnia magna</i> Straus | OECD 202, static | 48 |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | No data available | | | |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|--------------------------------|-------------------|--|------------------|-------------------|
| 6-(phthalimido)peroxyhexanoic acid | E _r C ₅₀ | 2.6 | <i>Pseudokirchneriella subcapitata</i> | OECD 201, static | 72 |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | No data available | | | |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|----------|-------------------|---------|--------|----------------------|
| 6-(phthalimido)peroxyhexanoic acid | | No data available | | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|----------|-------------------|----------|--------|---------------|
| 6-(phthalimido)peroxyhexanoic acid | | No data available | | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | No data available | | | |

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|----------|-------------------|---------|--------|---------------|------------------|
| 6-(phthalimido)peroxyhexanoic acid | | No data available | | | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|----------|-------------------|---------|--------|---------------|------------------|
| 6-(phthalimido)peroxyhexanoic acid | | No data available | | | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | No data available | | | | |

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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 |
|---|----------|---------------------------|---------|--------|----------------------|------------------|
| 6-(phthalimido)peroxyhexanoic acid | | No data available | | | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | No data available | | | | |

Terrestrial toxicity

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

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

12.2 Persistence and degradability**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

| Ingredient(s) | Half-life time in fresh water | Method | Evaluation | Remark |
|------------------------------------|-------------------------------|------------------|------------|--------|
| 6-(phthalimido)peroxyhexanoic acid | 38.9 hour(s) | Method not given | | |

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT ₅₀ | Method | Evaluation |
|---|----------|-------------------|------------------|--------|----------------------------|
| 6-(phthalimido)peroxyhexanoic acid | | | | | Readily biodegradable |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | | | | | Not 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 |
|---|-------------------|--------|-----------------------------|--------|
| 6-(phthalimido)peroxyhexanoic acid | No data available | | No bioaccumulation expected | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | | | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|-------------------|---------|--------|-----------------------------|--------|
| 6-(phthalimido)peroxyhexanoic acid | No data available | | | No bioaccumulation expected | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | 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 |
|---|--|--|--------|--------------------|------------|
| 6-(phthalimido)peroxyhexanoic acid | 1.916 | | | | |
| disodium dihydrogen (1-hydroxyethylidene)bisphosphonate | No data available | | | | |

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 Endocrine disrupting properties

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Endocrine disrupting properties - Environmental effects, if available:

12.7 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Waste from residues / unused products:**

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.

European Waste Catalogue:

16 09 03* - peroxides, for example hydrogen peroxide.

Empty packaging**Recommendation:**

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

SECTION 14: Transport information**Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

14.1 UN number or ID number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

14.7 Maritime transport in bulk according to IMO instruments: Non-dangerous goods

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
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

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

Ingredients according to EC Detergents Regulation 648/2004

oxygen-based bleaching agents
phosphonates

15 - 30 %
< 5 %

Seveso - Classification: Not classified

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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This data sheet contains changes from the previous version in section(s);, 9

Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No

Horizon Bright

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.

Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- H242 - Heating may cause a fire.
- H302 - Harmful if swallowed.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H400 - Very toxic to aquatic life.

End of Safety Data Sheet