



SAFETY DATA SHEET

This Safety Data Sheet (SDS) was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 (in particular as amended by Commission Regulation (EU) 2020/878 with respect to SDSs) and Regulation (EC) No. 1272/2008 (CLP)

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Revision Number 1

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

1.1. Product identifier

Product Identifier C-20175103-002_RET_CLPR7_EUR_SAW
Product Name Fairy Professional All in 1 Platinum Plus
Product Form Mixture
Pure substance/mixture Mixture

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

Recommended use Intended for general public
Uses advised against No information available
Main user category SU 21 - Consumer uses: Private households (= general public = consumers)
Product category Auto Dish unit dose
Use category PC35 - Washing and cleaning products (including solvent based products)

1.3. Details of the supplier of the safety data sheet

| Supplier | Manufacturer |
|--|--|
| Procter & Gamble UK Brooklands, Weybridge, Surrey, KT13 0XP, UK Tel: 01932 896000 Fax: 01932 896200 | Belgium P&G Mechelen (Malines), Hombeeksesteenweg 323, B - 2800 Mechelen, Antwerpen, Belgium Tel: 32-15-455611 Fax: 32-15-455615 |
| P&G DCE bvba/sprl-Belgium Dist. Div., Temselaan 100, B-1853 Strombeek-Bever, Belgium (IE) 1800 535 119 | |

For further information, please contact

E-mail address pgsds.im@pg.com

1.4. Emergency telephone number

Emergency Telephone (UK) Emergency Tel: 0800 328 8304 (IRL) Emergency Tel: 1800 509 497

(IRL) Poisons information: for information or to report a poisoning incident contact The National Poisons Information Centre 01 8092166 (8.00 a.m. to 10.00 p.m. 7 days a week)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

| | |
|--|---------------------|
| Serious eye damage/eye irritation | Category 1 - (H318) |
|--|---------------------|

2.2. Label elements



Signal word

Danger

Hazard statements

H318 - Causes serious eye damage

Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P280 - Wear 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 or doctor

Drink small amount of water to dilute

P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes

P310 - Immediately call a POISON CENTER/doctor

EUH208 - Contains Protease May produce an allergic reaction.

2.3. Other hazards

No information available

Endocrine Disruptor Information

There are no substances contained at or above the regulated value for declaration of >0.1% that fall under the definition of confirmed endocrine disruptors of any EU regulation.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | CAS No | Weight-% | REACH registration number | EC No | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---|-------------|----------|---------------------------|-----------|--|--|----------|----------------------|
| Sodium Carbonate Peroxide | 15630-89-4 | 10 - 20 | 01-21194572 68-30 | 239-707-6 | Acute Tox. 4 (Oral) (H302) Eye Dam. 1 (H318) Ox. Sol. 3 (H272) | Eye Dam. 1 :: 25%<=C<100% Eye Irrit. 2 :: 7.5%<=C<25% | - | - |
| Sodium Carbonate | 497-19-8 | 10 - 20 | 01-21194854 98-19 | 207-838-8 | Eye Irrit. 2 (H319) | - | - | - |
| Trideceth-n | 69011-36-5 | 5 - 10 | No data available | - | Acute Tox. 4 (Oral) (H302) Eye Dam. 1 (H318) | - | - | - |
| Tetrasodium Etidronate | 3794-83-0 | 5 - 10 | 01-21196479 55-23 | 223-267-7 | Acute Tox. 4 (Oral) (H302) Eye Irrit. 2 (H319) | Eye Irrit. 2 :: 30%<=C<100% | - | - |
| PPG/PEG/PPG-3/1 4.5/16 Propylheptyl Ether | 166736-08-9 | 1 - 5 | No data available | 605-450-7 | Acute Tox. 4 (Oral) (H302) Skin Irrit. 2 (H315) | - | - | - |
| Disodium Disilicate | 13870-28-5 | 1 - 5 | 01-21194850 31-47 | 237-623-4 | Eye Dam. 1 (H318) | - | - | - |
| Alcohols, | 111905-53-4 | 1 - 5 | No data | 601-137-4 | Acute Tox. 4 | - | - | - |

| | | | | | | | | |
|---|-----------|-------|----------------------|-----------|---|---|---|---|
| C13-15-branched and linear, butoxylated ethoxylated | | | available | | (Oral) (H302) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412) Eye Irrit. 2 (H319) | | | |
| Protease | 9014-01-1 | 0 - 1 | 01-21194804 34-38 | 232-752-2 | Acute Tox. 4 (Oral) (H302) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411) Eye Dam. 1 (H318) Resp. Sens. 1 (H334) Skin Irrit. 2 (H315) STOT SE 3 (H335) | - | - | - |

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate
No information available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59).

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---|--|
| General advice | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. |
| Inhalation | Remove to fresh air. Get medical attention immediately if symptoms occur. |
| Eye contact | Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. |
| Skin contact | Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists. Discontinue use of product. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician. Drink small amount of water to dilute. |
| Self-protection of the first aider | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|-----------------|--|
| Symptoms | Burning sensation. Sneezing. Dryness. Pain. Blurred vision. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Excessive secretion. |
|-----------------|--|

4.3. Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|---------------------------|------------------------|

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|-------------------------------------|---|
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|-------------------------------------|---|

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No information available.

5.3. Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Other information Refer to protective measures listed in Sections 7 and 8.
For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Scoop absorbed substance into closing containers.
Methods for cleaning up Small quantities of solid spill: wash down with water. Large Spills: Scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation.
Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.
General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

7.3. Specific end use(s)

Specific use(s)

Cleaning/washing agents and additives.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|---------------|----------------|----------------|---------|----------|--|
| Protease | - | - | - | - | TWA: 0.00004 mg/m ³ * Respiratory Sensitisation |
| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |

| | | | | | |
|------------------|---|---|---|---|---|
| Sodium Carbonate | - | TWA: 5 mg/m ³ Ceiling: 10 mg/m ³ | - | - | - |
| Protease | - | - | Ceiling: 0.00006 mg/m ³ | TWA: 1 glycine unit/m ³ STEL: 3 glycine unit/m ³ | - |
| Chemical name | France | Germany | Germany DFG | Greece | Hungary |
| Protease | - | - | respiratory sensitizer | - | - |
| Chemical name | Ireland | Italy | Italy REL | Latvia | Lithuania |
| Protease | TWA: 0.00006 mg/m ³ STEL: 0.00006 mg/m ³ Sensitizer | - | Ceiling: 0.00006 mg/m ³ | - | - |
| Chemical name | Portugal | Romania | Slovakia | Slovenia | Spain |
| Sodium Carbonate | - | TWA: 1 mg/m ³ STEL: 3 mg/m ³ | - | - | - |
| Protease | Ceiling: 0.00006 mg/m ³ | - | - | - | STEL: 0.00006 mg/m ³ sensitizer |
| Chemical name | Sweden | Switzerland | United Kingdom | Israel - Occupational Exposure Limits - TWAs | Turkey |
| Protease | NGV: 1 glycine unit/m ³ Bindande KGV: 3 glycine unit/m ³ Sensitizer | STEL: 0.00006 mg/m ³ | TWA: 0.00004 mg/m ³ STEL: 0.00012 mg/m ³ Sen+ | - | - |

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) Long term.

| Chemical name | Worker - dermal, long-term - systemic | Worker - inhalative, long-term - systemic | Worker - dermal, long-term - local | Worker - inhalative, long-term - local |
|---------------------------|---------------------------------------|---|------------------------------------|--|
| Sodium Carbonate Peroxide | - | - | 12.8 mg/cm ² | 5 mg/m ³ |
| Sodium Carbonate | - | - | - | 10 mg/m ³ |
| Tetrasodium Etidronate | 48 mg/kg bw/day | 16.9 mg/m ³ | - | 10 mg/m ³ |
| Disodium Disilicate | 318 mg/kg bw/day | 11.21 mg/m ³ | - | - |
| Protease | - | - | - | 0 mg/m ³ |

| Chemical name | Consumer - oral, long-term - local | Consumer - inhalative, long-term - local | Consumer - dermal, long-term - local |
|---------------------------|------------------------------------|--|--------------------------------------|
| Sodium Carbonate Peroxide | - | - | 6.4 mg/cm ² |
| Sodium Carbonate | - | 5 mg/m ³ | - |
| Tetrasodium Etidronate | - | 10 mg/m ³ | - |
| Protease | - | 0 mg/m ³ | - |

| Chemical name | Consumer - oral, long-term - systemic | Consumer - inhalative, long-term - systemic | Consumer - dermal, long-term - systemic |
|------------------------|---------------------------------------|---|---|
| Tetrasodium Etidronate | 2.4 mg/kg bw | 4.2 mg/m ³ | 24 mg/kg bw/day |
| Disodium Disilicate | 1.59 mg/kg bw | 2.39 mg/m ³ | 159 mg/kg bw/day |
| Protease | 2.86 mg/kg bw | - | - |

Derived No Effect Level (DNEL) Short term.

| Chemical name | Worker - dermal, short-term - systemic | Worker - inhalative, short-term - systemic | Worker - dermal, short-term - local | Worker - inhalative, short-term - local |
|---------------------------|--|--|-------------------------------------|---|
| Sodium Carbonate Peroxide | - | - | 12.8 mg/cm ² | 12.8 mg/cm ² |
| Tetrasodium Etidronate | - | - | - | 10 mg/m ³ |

| Chemical name | Consumer - inhalative, short-term - local | Consumer - dermal, short-term - local |
|---------------------------|---|---------------------------------------|
| Sodium Carbonate Peroxide | - | 6.4 mg/cm ² |
| Sodium Carbonate | 10 mg/m ³ | - |
| Tetrasodium Etidronate | 10 mg/m ³ | - |

| Chemical name | Consumer - oral, short-term - systemic | Consumer - inhalative, short-term - systemic | Consumer - dermal, short-term - systemic |
|---------------|--|--|--|
| Protease | 17.28 mg/kg bw | - | - |

Predicted No Effect Concentration (PNEC) No information available.

| Chemical name | Fresh Water | Marine water | Intermittent release |
|---------------------------|-------------------------------|-------------------------------|-------------------------------|
| Sodium Carbonate Peroxide | 0.035 mg/L | 0.035 mg/L | 0.035 mg/L |
| Sodium Carbonate | no data; no toxicity expected | no data; no toxicity expected | no data; no toxicity expected |
| Tetrasodium Etidronate | 0.096 mg/L | 0.01 mg/L | - |
| Disodium Disilicate | 7.5 mg/L | 7.5 mg/L | - |
| Protease | 0.002 mg/L | 0 mg/L | 0.001 mg/L |

| Chemical name | Freshwater sediment | Marine sediment | Sewage treatment plant | Soil | Air | Oral |
|---------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-----|------|
| Sodium Carbonate Peroxide | - | - | 16.24 mg/L | - | - | - |
| Sodium Carbonate | no data; no toxicity expected | - | - |
| Tetrasodium Etidronate | 193 mg/kg dwt | 19.3 mg/kg dwt | 58 mg/L | 14 mg/kg dwt | - | - |
| Disodium Disilicate | 29.4 mg/kg dwt | 29.4 mg/kg dwt | 28 mg/L | 1.47 mg/kg dwt | - | - |
| Protease | - | - | 65 mg/L | 0.568 mg/kg dwt | - | - |

8.2. Exposure controls

Personal Protective Equipment

| | |
|--|--|
| Eye/face protection | Tight sealing safety goggles. |
| Hand protection | Wear suitable gloves. |
| Skin and body protection | Wear suitable protective clothing. |
| Respiratory protection | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| General hygiene considerations | Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. |
| Environmental exposure controls | Prevent that the undiluted product reaches surface waters. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------------|---|
| Physical state | Solid |
| Appearance | dual-phase pouch: speckled powder with liquid top |
| Color | colored |
| Odor | Pleasant |
| Odor threshold | Not applicable |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---|--------------------------|--|
| Melting point / freezing point | No data available | Not available. This property is not relevant for the safety and classification of this product |
| Initial boiling point and boiling range | No data available | Not available. This property is not relevant for the safety and classification of this product Not applicable. This property is not relevant for solid product forms |
| Flammability | | Not applicable. This property is not relevant for liquid product forms |
| Flammability Limit in Air | | Not available. This property is not relevant for the safety and classification of this product No Data Available |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive limits | No data available | |
| Flash point | No Data Available | Not available. This property is not relevant for the safety and classification of this product Not applicable. This property is not relevant for solid product forms |
| Autoignition temperature | > 75 °C | UN Test H.1: United States SADT test |
| Decomposition temperature | No Data Available | Not available. This property is not relevant for the safety and classification of this product |
| pH | 10 | Liquid 6 - 8.5 |
| Dynamic viscosity | No Data Available | Not applicable |
| Water solubility | Soluble in water | |
| Solubility(ies) | No Data Available | Not available. This property is not relevant for the safety and classification of this product |
| Partition coefficient | No Data Available | Not available. This property is not relevant for the safety and classification of this product |
| Vapor pressure | No Data Available | Not applicable. This property is not relevant for solid product forms |
| Relative density | No Data Available | Not available. This property is not relevant for the safety and classification of this product |
| Relative vapor density | No data available | Not applicable. This property is not relevant for solid product forms |
| Particle characteristics | | Not available. This property is not relevant for the safety and classification of this product |
| Particle Size | No information available | |
| Particle Size Distribution | No information available | |

9.2. Other information

9.2.1. Information with regard to physical hazard classes
No information available

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. May cause irritation.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness.

Numerical measures of toxicity

No information available

Acute toxicity

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------------------|----------------------|-------------------------|--------------------------------------|
| Sodium Carbonate Peroxide | 893 mg/kg (RAT) | 5001 mg/kg (RABBIT) | - |
| Sodium Carbonate | 2800 mg/kg (RAT) | 5001 mg/kg (RABBIT) | = 2300 mg/m ³ (Rat) 2 h |
| Trideceth-n | > 2000 mg/kg (Rat) | = 5960 mg/kg (Rabbit) | > 1.6 mg/L (Rat) 4 h |
| Tetrasodium Etidronate | = 990 mg/kg (Rat) | 5001 mg/kg (RABBIT) | - |
| Disodium Disilicate | 3150 mg/kg (RAT) | - | > 3.51 mg/L (Rat) 4 h |
| Protease | 1800 mg/kg (RAT) | - | - |

| Chemical name | Carcinogenicity | Species | Eye Damage | Species | Developmental toxicity | Species | Mutagenicity | Species |
|---------------------------|-----------------|---------|--------------|---------|------------------------|---------|----------------------------|---------|
| Sodium Carbonate Peroxide | - | - | Y (OECD 405) | - | - | - | - | - |
| Sodium Carbonate | - | - | OECD 405 | - | - | - | - | - |
| Tetrasodium Etidronate | - | - | OECD 405 | - | - | - | - | - |
| Disodium Disilicate | - | - | Y (OECD 405) | - | (> 200 mg/kg bw/d) | - | N (In vitro) & N (In vivo) | - |
| Protease | - | - | Y (OECD 405) | - | - | - | - | - |

| Chemical name | Reproductive toxicity | Species | Skin corrosion/irritation | Species | Sensitization | Species |
|---------------------|-----------------------|---------|---------------------------|---------|---------------|---------|
| Disodium Disilicate | (> 159 mg/kg bw/d) | - | N (OECD 404) | - | - | - |
| Protease | - | - | Y (OECD 404) | - | Y | - |

| Chemical name | Skin sensitization | Species | STOT - single exposure | Target Organs | Species | STOT - repeated exposure | Target Organs | Species | Aspiration hazard |
|---------------------|--------------------|---------|------------------------|---------------|---------|--------------------------|---------------|---------|-------------------|
| Disodium Disilicate | N (OECD 429) | - | - | - | - | - | - | - | - |
| Protease | - | - | (Y) | - | - | - | - | - | - |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|--|---|
| Skin corrosion/irritation | May cause skin irritation. |
| Serious eye damage/eye irritation | Classification based on data available for ingredients. Causes burns. |
| Respiratory or skin sensitization | Not applicable. |
| Germ cell mutagenicity | None known. |
| Carcinogenicity | None known. |
| Reproductive toxicity | None known. |
| STOT - single exposure | None known. |
| STOT - repeated exposure | None known. |
| Aspiration hazard | Not applicable. |

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties There are no substances contained at or above the regulated value for declaration of >0.1% that fall under the definition of confirmed endocrine disruptors of any EU regulation.

11.2.2. Other information

Other adverse effects None known.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

No known adverse effects on the functioning of water treatment plants under normal use conditions as recommended.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---------------------------|--|---|--|--|
| Sodium Carbonate Peroxide | - | 70.7 mg/L (Pimephales promelas; 48 h) | - | 4.9 mg/L (Daphnia pulex; 48 h) |
| Sodium Carbonate | 101 mg/L (algae, various) | 300 mg/L (Lepomis macrochirus; 96 h) | - | 215 mg/L (Ceriodaphnia sp.; 48 h) |
| Tetrasodium Etidronate | - | >= 200 mg/L (OECD 204; Oncorhynchus mykiss; 72 h) | 251 mg/L (IC0; DIN 38412-8; Photobacterium phosphoreum; 0.5 h) | 754 mg/L (OECD 202; Daphnia magna; 48 h) |
| Disodium Disilicate | 44.1 mg/L (OECD 201; Desmodesmus subspicatus; 72 h) | 500 mg/L (OECD 203; Danio rerio; 96 h) | 720 mg/L (OECD 209; activated sludge; 3 h) | 491 mg/L (OECD 202; Daphnia magna; 48 h) |
| Protease | 1.58 mg/L (OECD 201; Raphidocelis subcapitata; 72 h) | 15.6 mg/L (OECD 203; Oncorhynchus mykiss; 96 h) | - | 0.327 mg/L (OECD 202; Daphnia magna; 48 h) |

Chronic Toxicity

| Chemical name | Toxicity to algae (NOEC or ECx)* | Toxicity to fish (NOEC or ECx)* | Toxicity to daphnia and other aquatic invertebrates (NOEC or ECx)* | Toxicity to Microorganisms (NOEC or ECx)* | Toxicity to other organisms |
|---------------------------|--|---|--|---|---|
| Sodium Carbonate Peroxide | - | - | 2 mg/L (Daphnia pulex; 2 d) | - | - |
| Sodium Carbonate | 100 mg/L (algae, various) | - | - | - | - |
| Tetrasodium Etidronate | - | 60 mg/L (OECD 204; Oncorhynchus mykiss; 14 d) | 9.63 mg/L (EPA 66013-75-009; Daphnia magna; 28 d) | (200 mg/L (anaerobic sludge; 11 d)) | 286 (11 d) |
| Disodium Disilicate | 18 mg/L (OECD 201; Desmodesmus subspicatus; 3 d) | - | 250 mg/L (OECD 202; Daphnia magna; 2 d) | - | 2039 mg/kg diet (Meleagris gallopavo; 28 d) |
| Protease | 0.042 mg/L (OECD 201; Raphidocelis subcapitata; 3 d) | 0.15 mg/L (OECD 210; Pimephales promelas; 32 d) | 1.14 mg/L (OECD 211; Daphnia magna; 0.875 d) | - | - |

12.2. Persistence and degradability

Persistence and degradability

| Chemical name | Ready Biodegradation Test (OECD 301) | Abiotic Degradation Hydrolysis | Abiotic Degradation Photolysis | Biodegradation Other Tests |
|------------------------|--|--------------------------------|--------------------------------|----------------------------|
| Tetrasodium Etidronate | 22.9 % (ISO 5815; O2 consumption; 28 d) | - | - | 0.3 (70 d) |
| Disodium Disilicate | Test waived: substance is inorganic. Ref: Section 9 - Column 2 of REACH Annex VII. | - | - | - |
| Protease | 102 % (EPA OPPTS 835.3110; CO2 evolution; 29 d) | - | - | - |

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

| Chemical name | Partition coefficient |
|------------------------|-----------------------|
| Tetrasodium Etidronate | -3 |
| Protease | -3.1 |

| Chemical name | Octanol/water partition coefficient | Bioconcentration factor (BCF) |
|---------------|-------------------------------------|-------------------------------|
|---------------|-------------------------------------|-------------------------------|

| | | |
|------------------------|-----------------|----|
| Tetrasodium Etidronate | -3 (OECD 107) | 71 |
| Protease | -1.3 (OECD 107) | - |

12.4. Mobility in soil

Mobility in soil

| Chemical name | log Koc |
|------------------------|---------|
| Tetrasodium Etidronate | 16610 |

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

| Chemical name | PBT and vPvB assessment |
|---------------------------|---------------------------------|
| Sodium Carbonate Peroxide | The substance is not PBT / vPvB |
| Sodium Carbonate | The substance is not PBT / vPvB |
| Trideceth-n | The substance is not PBT / vPvB |
| Tetrasodium Etidronate | The substance is not PBT / vPvB |
| Disodium Disilicate | PBT assessment does not apply |
| Protease | The substance is not PBT / vPvB |

12.6. Endocrine disrupting properties

Endocrine disrupting properties There are no substances contained at or above the regulated value for declaration of >0.1% that fall under the definition of confirmed endocrine disruptors of any EU regulation.

12.7. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

The waste codes/waste designations below are in accordance with EWC. Waste must be delivered to an approved waste disposal company. Waste is to be kept separate from other types of waste until its disposal. Do not throw waste product into the sewer. Where possible recycling is preferred to disposal or incineration. Empty, uncleaned packaging need the same disposal considerations as filled packaging. For handling waste, see measures described in section 8.

Contaminated packaging

Do not reuse empty containers.

Waste codes / waste designations according to EWC / AVV 07 06 01

SECTION 14: Transport information

IATA

14.1 UN number or ID number Not regulated
 14.2 UN proper shipping name Not regulated
 14.3 Transport hazard class(es) Not regulated
 14.4 Packing group Not regulated
 14.5 Environmental hazards Not applicable
 14.6 Special precautions for user

IMDG

14.1 UN number or ID number Not regulated
 14.2 UN proper shipping name Not regulated
 14.3 Transport hazard class(es) Not regulated
 14.4 Packing group Not regulated
 14.5 Environmental hazards Not applicable
 14.6 Special precautions for user
 14.7 Maritime transport in bulk No information available

according to IMO instruments

RID

| | |
|-----------------------------------|----------------|
| 14.1 UN number or ID number | Not regulated |
| 14.2 UN proper shipping name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | None |

ADR

| | |
|-----------------------------------|----------------|
| 14.1 UN number or ID number | Not regulated |
| 14.2 UN proper shipping name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | None |

ADN

| | |
|------------------------------------|--------------------------|
| 14.1 UN number or ID number | Not relevant |
| 14.2 Extended proper shipping name | Not regulated |
| 14.3 Transport hazard class(es) | No information available |
| 14.4 Packing group | Not relevant |
| 14.5 Marine pollutant | Not regulated |

SECTION 15: Regulatory information

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

National regulations

Germany

Water hazard class (WGK) obviously hazardous to water (WGK 2)

Netherlands

Poland

Announcement of the Speaker of the Sejm of the Republic of Poland of 13 April 2018 regarding the publication of a uniform text of the Act - Labor Code (Journal of Laws 2018, item 917, as amended). Announcement of the Speaker of the Sejm of the Republic of Poland of March 15, 2019 regarding the publication of a uniform text of the Act on Waste (Journal of Laws 2019 item 701, as amended). Regulation of the Minister of Development of 7 July 2016, repealing the Regulation on specific requirements for certain products due to their negative environmental impact (Journal of Laws of 2016, item 1099, as amended). Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 regarding the highest permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286 with subsequent amendments).

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII) Regulation (EC) No. 648/2004 (Detergents regulation) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP] Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

| Chemical name | Restricted substance per REACH Annex XVII | Substance subject to authorization per REACH Annex XIV |
|------------------|---|--|
| Sodium Carbonate | 75. | - |
| Protease | 75. | - |

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Biocidal Products Regulation (EU) No 528/2012 (BPR)

CESIO Recommendations

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

Chemical Safety Report

No chemical safety assessment has been carried out for this mixture per REACH regulation.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

- H272 - May intensify fire; oxidizer
- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335 - May cause respiratory irritation
- H400 - Very toxic to aquatic life
- H411 - Toxic to aquatic life with long lasting effects
- H412 - Harmful to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | |
|---------|-----------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | Sk* | Skin designation |

| Classification procedure | |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Serious eye damage/eye irritation | Calculation method |

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Further information Salts listed in Section 3 without a REACH Registration number are exempt, based on Annex V.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet