SAFETY DATA SHEET
Denture Cleaning Tablets

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

1.1 Product identifier

Product name : Steradent Extra Strength Intensive Whitening Tablets
SDS no. : D8117045 v3.2
Formulation # : 8183780 v1.0

UPC Code / Sizes : Tablet sealed in the foil or in the tube
Product type : Denture Cleaners
Product use : Consumer

Supplier : AUSTRALIA
Reckitt Benckiser (Australia) Pty Limited
ABN: 17 003 274 655
680 George St Sydney NSW 2000
Tel: +61 (0)2 9857 2000

NEW ZEALAND
Reckitt Benckiser (New Zealand) Limited
2 Fred Thomas Drive, Takapuna,
Auckland, New Zealand 0622
Tel: +64 9 484 1400

Poison Information contact: : Australia - 13 11 26
New Zealand - 0800 764 766 or 0800 POISON

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Acute Tox. 4, H302
Skin Irrit. 2, H315
Eye Irrit. 2, H319

See Section 16 for the full text of the R phrases or H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms:

Signal word: Warning

Hazard statements:
- Harmful if swallowed.
- Causes serious eye irritation.
- Causes skin irritation.

Precautionary statements

General: If medical advice is needed, have product container or label at hand. Keep out of reach of children.

Prevention: Wash hands thoroughly after handling.

Response: IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If in eyes or on skin, rinse well with water.

Storage: Not applicable.

Disposal: Not applicable.

Hazardous ingredients (CLP):
- Contains potassium monopersulfate, sodium percarbonate, sodium dodecylbenzenesulfonate

Supplemental label elements (CLP): Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings: Not applicable.

Tactile warning of danger: Yes, applicable.

2.3 Other hazards

Other hazards which do not result in classification: None known.

Additional information: Short term Skin Bleaching agent. IF ON SKIN: Rinse skin with water.

SECTION 3: Composition/information on ingredients

Substance/mixture: Mixture

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### SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Classification</th>
<th>Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>pentapotassium bis (peroxymonosulphate) bis(sulphate)</td>
<td>EC: 274-778-7</td>
<td>15 - 30</td>
<td>Xn; R22 C; R34 R52</td>
<td>Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412</td>
<td>[1]</td>
</tr>
<tr>
<td>sodium carbonate</td>
<td>REACH #: 01-2119485498-19</td>
<td>10 - 15</td>
<td>Xi; R36</td>
<td>Eye Irrit. 2, H319</td>
<td>[1]</td>
</tr>
<tr>
<td>disodium carbonate, compound with hydrogen peroxide (2:3)</td>
<td>REACH #: 01-2119457268-30</td>
<td>10 - 15</td>
<td>O; R8</td>
<td>Ox. Sol. 3, H272</td>
<td>[1]</td>
</tr>
<tr>
<td>malic acid</td>
<td>EC: 230-022-8</td>
<td>5 - 10</td>
<td>Xi; R36</td>
<td>Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Irrit. 2, H315 Eye Irrit. 2, H319</td>
<td>[1]</td>
</tr>
<tr>
<td>citric acid</td>
<td>EC: 201-069-1</td>
<td>&lt; 2.5</td>
<td>Xi; R36</td>
<td>Eye Irrit. 2, H319</td>
<td>[1]</td>
</tr>
<tr>
<td>sodium dodecylbenzenesulfonate</td>
<td>EC: 246-680-4</td>
<td>&lt; 2.5</td>
<td>Xn; R22 Xi; R41, R38</td>
<td>Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 See Section 16 for the full text of the H statements declared above.</td>
<td>[1]</td>
</tr>
</tbody>
</table>

**EU Regulation (EC) No. 1907/2006 (REACH)**

- **Annex XIV - List of substances subject to authorisation**
  - **Annex XIV**
    - None of the components are listed.
  - **Substances of very high concern**
    - None of the components are listed.
  - **Annex XVII - Restrictions**
    - Not applicable.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

**Type**

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [5] Substance of equivalent concern

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SECTION 3: Composition/information on ingredients

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Inhalation**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion**: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

**Potential acute health effects**

- **Eye contact**: Irritating to eyes.
- **Inhalation**: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- **Skin contact**: Irritating to skin.
- **Ingestion**: Harmful if swallowed. Irritating to mouth, throat and stomach.

**Over-exposure signs/symptoms**

- **Eye contact**: Adverse symptoms may include the following: pain or irritation, watering, redness.
- **Inhalation**: No specific data.
- **Skin contact**: Adverse symptoms may include the following: irritation, redness.
- **Ingestion**: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician**: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

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SECTION 4: First aid measures

SECTION 5: Firefighting measures

5.1 Extinguishing media
   Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.
   Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture
   Hazards from the substance or mixture : No specific fire or explosion hazard.
   Hazardous thermal decomposition products : Decomposition products may include the following materials:
                                             - carbon dioxide
                                             - carbon monoxide
                                             - nitrogen oxides
                                             - sulfur oxides
                                             - metal oxide/oxides

5.3 Advice for firefighters
   Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
   Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
   For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
   For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up
   Small spill : Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
   Large spill : Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.
SECTION 6: Accidental release measures

6.4 Reference to other sections:
See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

**Protective measures**: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene**: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

**Storage**: Long term Storage temperature: 5 to 25°C (41 to 77°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Do not store above the following temperature**: No excursions above 50°C.
Excursions up to 50°C - permissible for a maximum of 5 days only
Excursions up to 40°C - permissible for a maximum of 8 weeks only

**Do not store below the following temperature**: There are no low temperature requirements

7.3 Specific end use(s)

**Recommendations**: Denture Cleaners

**Industrial sector specific solutions**: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
<td>No exposure limit value known.</td>
</tr>
</tbody>
</table>

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D8117045 v3.2

SECTION 8: Exposure controls/personal protection

**Recommended monitoring procedures**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### 8.2 Manufacturer: Exposure controls

**Appropriate engineering controls**: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Individual protection measures**

- **Hygiene measures**: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

- **Eye/face protection**: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection**

- **Hand protection**: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

  Permeation level 6, Penetration level 3 following EN374, taking into consideration the exposure of chemicals given in chapter 3.

- **Body protection**: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

- **Other skin protection**: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

- **Respiratory protection**: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

- **Environmental exposure controls**: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
Physical state: Solid. [Tablet.]

Colour: White tablet with Blue Tinge

Odour: Mint/Wintergreen (8183780)
        Menthol/Eucalyptus (0374251)

Odour threshold: Not available.

pH: 7.5 to 9.5 [Conc. (% w/w): 2%]

Melting point/freezing point: Not available.

Initial boiling point and boiling range: Not available.

Flash point: Not available.

Evaporation rate: Not available.

Flammability (solid, gas): Not available.

Burning time: Not available.

Burning rate: Not available.

Upper/lower flammability or explosive limits: Not available.

Vapour pressure: Not available.

Vapour density: Not available.

Density: Not available.

Bulk density: 1 to 1.2 g/ml

Solubility(ies): Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water: Not available.

Decomposition temperature: Not available.

Viscosity: Not available.

Explosive properties: Not available.

Oxidising properties: Not an Oxidizing solid (Based on the O.1 test of the UN division 5.1 for oxidising solids)

tablet Weight or volume: 3.1-3.5

Corrosivity Remarks: Not available.

9.2 Other information
No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability: The product is stable.

10.3 Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid: No specific data.

10.5 Incompatible materials: No specific data.

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### SECTION 10: Stability and reactivity

**10.6 Hazardous decomposition products**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Instability Conditions**
Not available.

**Instability temperature**
Not available.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

**Acute toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>pentapotassium bis (peroxymonosulphate) bis (sulphate)</td>
<td>LC50 Inhalation Dusts and mists</td>
<td>Rat</td>
<td>1.85 mg/l</td>
<td>4 hours</td>
<td></td>
</tr>
<tr>
<td>sodium carbonate</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>2000 mg/kg</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>disodium carbonate, compound with hydrogen peroxide (2:3)</td>
<td>LD50 Oral</td>
<td>Rabbit</td>
<td>&gt;2000 mg/kg</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>malic acid</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1034 mg/kg</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>citric acid</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1600 mg/kg</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>sodium dodecylbenzenesulfonate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3 g/kg</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**Acute toxicity estimates**

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermal Inhalation (dusts and mists)</td>
<td>10120.9 mg/kg 9.362 mg/l</td>
</tr>
</tbody>
</table>

**Irritation/Corrosion**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium carbonate</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>0.5 minutes 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>malic acid</td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 750 Micrograms</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 20 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>citric acid</td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 750 Micrograms</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>sodium dodecylbenzenesulfonate</td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>0.5 Milliliters</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 250 Micrograms</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>1 Percent</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 20 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

**Skin**
Irritating to skin.

**Eyes**
Irritating to eyes.

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SECTION 11: Toxicological information

Sensitisation

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Route of exposure</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>pentapotassium bis (peroxymonosulphate) bis (sulphate)</td>
<td>skin</td>
<td>Guinea pig</td>
<td>Not sensitizing</td>
</tr>
</tbody>
</table>

Mutagenicity
No known effect according to our database.

Carcinogenicity
No known effect according to our database.

Reproductive toxicity
No known effect according to our database.

Teratogenicity
No known effect according to our database.

Specific target organ toxicity (single exposure)
No known effect according to our database.

Specific target organ toxicity (repeated exposure)
No known effect according to our database.

Aspiration hazard
No known effect according to our database.

Potential acute health effects

Eye contact : Irritating to eyes.
Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact : Irritating to skin.
Ingestion : Harmful if swallowed. Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
   - pain or irritation
   - watering
   - redness
Inhalation : No specific data.
Skin contact : Adverse symptoms may include the following:
   - irritation
   - redness
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure
Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure
Potential immediate effects : Not available.
SECTION 11: Toxicological information

Potential delayed effects : Not available.

Potential chronic health effects
Not available.

Conclusion/Summary : Not available.

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>pentapotassium bis (peroxymonosulphate) bis (sulphate) sodium carbonate</td>
<td>Acute LC50 &gt;32 mg/l Fresh water</td>
<td>Fish - Brachydanio rerio</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 242000 µg/l Fresh water</td>
<td>Algae - Navicula seminulum</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 176000 µg/l Fresh water</td>
<td>Crustaceans - Amphipoda</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 265000 µg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 300000 µg/l Fresh water</td>
<td>Fish - Lepomis macrochirus</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 70 mg/l</td>
<td>Algae - Chlorella emersonii</td>
<td>240 hours</td>
</tr>
<tr>
<td>disodium carbonate, compound with hydrogen peroxide (2:3)</td>
<td>Acute EC50 4.9 mg/l</td>
<td>Daphnia - Daphnia Pulex</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 70.7 mg/l</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 160000 µg/l Marine water</td>
<td>Crustaceans - Carcinus - Adult</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 290000 µg/l Fresh water</td>
<td>Algae - Chlorella pyrenoidosa - Exponential growth phase</td>
<td>96 hours</td>
</tr>
<tr>
<td>citric acid</td>
<td>Acute EC50 7.81 mg/l Fresh water</td>
<td>Crustaceans - Ceriodaphnia dubia - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 0.15 ppm Fresh water</td>
<td>Daphnia - Daphnia pulex</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute IC50 112.4 mg/l</td>
<td>Algae - Pseudokirchneriella subcapitata - Exponential growth phase</td>
<td>72 hours</td>
</tr>
<tr>
<td>sodium dodecylbenzenesulfonate</td>
<td>Acute LC50 1.18 ppm Fresh water</td>
<td>Fish - Lepomis macrochirus</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

No known effect according to our database.

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium carbonate</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential
SECTION 12: Ecological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>pentapotassium bis (peroxymonosulphate) bis (sulphate)</td>
<td>&lt;0.3</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>malic acid</td>
<td>-1.26</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>citric acid</td>
<td>-1.8</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>sodium dodecylbenzenesulfonate</td>
<td>1.96</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

Soil/water partition coefficient (K<sub>OC</sub>): Not available.

Mobility: Not available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste: The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

This preparation is not classified as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

For long distance transport of bulk material or shrink pallet take into consideration sections 7 and 10.
SECTION 15: Regulatory information

Standard Uniform Schedule of Medicine and Poisons
Poison Schedule (Australia) : Not scheduled

Model Work Health and Safety Regulations - Scheduled Substances
No listed substance

Australia inventory (AICS) : All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC) : Not determined.

HSNO Group Standard : Cosmetic Products
HSNO Approval Number : HSR002552
Approved Handler : No.
Tracking Requirement : No.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms
ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

Key literature references and sources for data : Not available.

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Acute Tox. 4, H302
Skin Irrit. 2, H315
Eye Irrit. 2, H319

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4, H302</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>Skin Irrit. 2, H315</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Eye Irrit. 2, H319</td>
<td>On basis of test data</td>
</tr>
</tbody>
</table>

Europe

Full text of abbreviated H statements
H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

Date of issue/Date of revision : 21/07/2015.
Date of previous issue : 01/05/2014.
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe

SECTION 16: Other information

Full text of classifications [CLP/GHS]

- H412 Harmful to aquatic life with long lasting effects.
- Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4
- Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4
- Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4
- Aquatic Chronic 3, H412 LONG-TERM AQUATIC HAZARD - Category 3
- Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
- Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
- Ox. Sol. 3, H272 OXIDIZING SOLIDS - Category 3
- Skin Corr. 1B, H314 SKIN CORROSION/IRRITATION - Category 1B
- Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

Full text of abbreviated R-phrases

- R8- Contact with combustible material may cause fire.
- R22- Harmful if swallowed.
- R34- Causes burns.
- R41- Risk of serious damage to eyes.
- R36- Irritating to eyes.
- R38- Irritating to skin.
- R36/38- Irritating to eyes and skin.
- R52- Harmful to aquatic organisms.

Full text of classifications [DSD/DPD]

- O - Oxidising
- C - Corrosive
- Xn - Harmful
- Xi - Irritant

Date of issue/Date of revision: 21/07/2015.
Date of previous issue: 01/05/2014.
Version: 3.2
Prepared by: Reckitt Benckiser LLC.
Product Safety Department
1 Philips Parkway
Montvale, New Jersey 07646-1810 USA.
FAX: 201-476-7770

Revision comments: Added Formula number 8183780 along with previous Formula 0374251

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