

# SAFETY DATA SHEET



## PREMIUM MACHINE DISHWASHING POWDER

### STE PRODUCTS

Catalogue number: CT219

Version No: 2.2

Issue date: 15/07/2021

Safety Data Sheet according to WHS and ADG requirements

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### Product Identifier

|                      |                                    |
|----------------------|------------------------------------|
| Product name         | PREMIUM MACHINE DISHWASHING POWDER |
| Product code         | CT219                              |
| Pack size            | 4.5 kg                             |
| Proper shipping name | DISODIUM TRIOXOSILICATE            |

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

|                          |                              |
|--------------------------|------------------------------|
| Relevant identified uses | Automatic dishwashing powder |
|--------------------------|------------------------------|

#### Details of the manufacturer/importer

|                         |                                            |
|-------------------------|--------------------------------------------|
| Registered company name | Ste Products                               |
| Address                 | 4 Excelsior St, Lisarow NSW 2250 Australia |
| Telephone               | 1300 720 353                               |
| Website                 | www.steproducts.com.au                     |
| Email                   | sales@steproducts.com.au                   |

#### Emergency telephone number

|                                   |                            |
|-----------------------------------|----------------------------|
| Association / Organisation        | Poisons Information Centre |
| Emergency telephone numbers       | 13 11 26                   |
| Other emergency telephone numbers | Not Available              |

### SECTION 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

|                    |                                                                                                                                                                               |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poisons Schedule   | 5                                                                                                                                                                             |
| GHS Classification | Serious Eye Damage Category 1, Skin Corrosion/Irritation Category 1B, STOT - SE (Resp. Irr.) Category 3,<br><i>Classification drawn from HCIS and ECHA C&amp;L Inventory.</i> |

#### Label elements

|                    |  |
|--------------------|--|
| GHS label elements |  |
|--------------------|--|

|             |               |
|-------------|---------------|
| SIGNAL WORD | <b>DANGER</b> |
|-------------|---------------|

#### Hazard statement(s)

|      |                                         |
|------|-----------------------------------------|
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage               |
| H335 | May cause respiratory irritation        |

#### Precautionary statement(s) Prevention

|      |                                                            |
|------|------------------------------------------------------------|
| P260 | Do not breathe dust.                                       |
| P271 | Use only outdoors or in a well-ventilated area.            |
| P280 | Wear protective gloves / eye protection / face protection. |

**Precautionary statement(s) Response**

|                     |                                                                                                                                                                              |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P301+P310+P330+P331 | IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.                                                                               |
| P303+P310+P361+P353 | IF ON SKIN (or hair): Immediately call a POISON CENTER or doctor. Take off immediately all contaminated clothing. Rinse skin with water/shower.                              |
| P305+P310+P351+P338 | IF IN EYES: Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P304+P310+P340      | IF INHALED: Immediately call a POISON CENTER or doctor. Remove person to fresh air and keep at rest in a position comfortable for breathing.                                 |
| P363                | Wash contaminated clothing before reuse.                                                                                                                                     |

**Precautionary statement(s) Storage**

|                |                                                                             |
|----------------|-----------------------------------------------------------------------------|
| P403+P405+P233 | Store locked up, in a well-ventilated place. Keep container tightly closed. |
|----------------|-----------------------------------------------------------------------------|

**Precautionary statement(s) Disposal**

|      |                                                                                 |
|------|---------------------------------------------------------------------------------|
| P501 | Dispose of contents / container in accordance with local government regulations |
|------|---------------------------------------------------------------------------------|

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS****Substances**

See section below for composition of Mixtures

**Mixtures**

| CAS No     | %[weight] | Name                           |
|------------|-----------|--------------------------------|
| 10213-79-3 | 10-<30    | <u>disodium trioxosilicate</u> |
| 7758-29-4  | 30-60     | <u>sodium tripolyphosphate</u> |
| 64-02-8    | <10       | <u>EDTA tetrasodium salt</u>   |
| 15630-89-4 | 10-<30    | <u>sodium percarbonate</u>     |
| 497-19-8   | 10-<30    | <u>sodium carbonate</u>        |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**SECTION 4 FIRST AID MEASURES****Description of first aid measures**

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact  | <p>If this product comes in contact with the eyes:</p> <p>Seek medical advice / attention immediately.</p> <p>Immediately hold eyelids apart and flush the eye continuously with running water.</p> <p>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</p> <p>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</p> <p>If instructed to do so, transport to hospital or doctor without delay.</p> <p>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</p>     |
| Skin Contact | <p>If skin or hair contact occurs:</p> <p>Immediately flush body and clothes with large amounts of water, using safety shower if available.</p> <p>Quickly remove all contaminated clothing, including footwear.</p> <p>Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.</p> <p>Seek medical advice and transport to hospital or doctor if instructed to do so.</p> <p>If irritation persists, seek medical advice / attention.</p>                                                                                                                                                                       |
| Inhalation   | <p>If inhaled, remove person from contaminated area to fresh air.</p> <p>Lay patient down. Keep warm and rested.</p> <p>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</p> <p>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</p> <p>Get medical advice / attention without delay.</p>                                                                                                                                                                                  |
| Ingestion    | <p>For advice, contact a Poisons Information Centre or a doctor at once.</p> <p>Urgent hospital treatment is likely to be needed.</p> <p><b>If swallowed do NOT induce vomiting.</b></p> <p>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</p> <p>Never give liquid to a person showing signs of being sleepy or with reduced awareness, i.e. becoming unconscious.</p> <p>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</p> <p>Transport to hospital or doctor without delay.</p> <p>Observe the patient carefully.</p> |

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5 FIREFIGHTING MEASURES****Extinguishing media**

|                     |                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Extinguishing media | <p>Water spray or fog.</p> <p>Foam.</p> <p>Dry chemical powder.</p> <p>BCF (where regulations permit).</p> <p>Carbon dioxide.</p> |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------|

**Special hazards arising from the substrate or mixture**

|                        |                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Fire incompatibilities | Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------|

## Advice for firefighters

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Fighting         | <p>The product is not flammable or combustible.</p> <p>HOWEVER if fire should occur for other reasons:</p> <p>Alert Fire Brigade and tell them location and nature of hazard.</p> <p>Wear full body protective clothing with breathing apparatus.</p> <p>Prevent, by any means available, spillage from entering drains or water course.</p> <p>Use firefighting procedures suitable for surrounding area.</p> <p>Cool fire exposed containers with water spray from a protected location.</p> <p>If safe to do so, remove containers from path of fire.</p> <p>Equipment should be thoroughly decontaminated after use.</p> |
| Fire/Explosion Hazard | <p>Product may release oxygen when heated which may stimulate the fire.</p> <p>Combustion may cause the release of carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| HAZCHEM               | 2X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

|              |                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minor Spills | <p>Environmental hazard - contain spillage.</p> <p>Check regularly for spills and leaks.</p> <p>Clean up all spills immediately.</p> <p>Avoid contact with skin and eyes.</p> <p>Control personal contact with the substance, by using protective equipment.</p> <p>Use dry clean up procedures and avoid generating dust.</p> <p>Place in a suitable, labelled container for waste disposal.</p> |
| Major Spills | <p>Pick up using a plastic shovel and place into labelled drums and dispose of according to local government regulations.</p> <p>Prevent by any means available to prevent any spillage entering a watercourse.</p> <p>Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle</p>                                      |
| PPE          | Personal Protective Equipment advice is contained in Section 8 of the SDS.                                                                                                                                                                                                                                                                                                                        |

## SECTION 7 HANDLING AND STORAGE

## Precautions for safe handling

|                   |                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safe handling     | <p>Avoid all personal contact, including inhalation.</p> <p>Wear protective clothing when risk of exposure occurs.</p> <p>Use in a well-ventilated area.</p> <p>When handling, <b>DO NOT eat, drink or smoke.</b></p> <p>Keep containers securely sealed when not in use.</p> <p>Always wash hands with soap and water after handling.</p>                                                                |
| Other information | <p>Store in original containers.</p> <p>Store in a cool, dry, well-ventilated area.</p> <p>Store away from incompatible materials and foodstuff containers.</p> <p>Protect containers against physical damage and check regularly for leaks.</p> <p>Observe manufacturer's storage and handling recommendations contained within this SDS.</p> <p><b>DO NOT store near acids, or oxidising agents</b></p> |

## Conditions for safe storage, including any incompatibilities

|                         |                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable container      | <p>Plastic pail.</p> <p>Packing as recommended by manufacturer.</p> <p>Check all containers are clearly labelled and free from leaks.</p> |
| Storage incompatibility | Avoid storing with strong acids.                                                                                                          |

## PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## Control parameters

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

Not Available

## EMERGENCY LIMITS

| Ingredient                        | Material name                                                         | TEEL-1                 | TEEL-2                | TEEL-3                 |
|-----------------------------------|-----------------------------------------------------------------------|------------------------|-----------------------|------------------------|
| sodium carbonate                  | Soda ash                                                              | 7.6 mg/m <sup>3</sup>  | 83 mg/m <sup>3</sup>  | 500 mg/m <sup>3</sup>  |
| sodium metasilicate, pentahydrate | Sodium metasilicate pentahydrate                                      | 6.6 mg/m <sup>3</sup>  | 73 mg/m <sup>3</sup>  | 440 mg/m <sup>3</sup>  |
| sodium tripolyphosphate           | Sodium tripolyphosphate                                               | 0.22 mg/m <sup>3</sup> | 2.5 mg/m <sup>3</sup> | 620 mg/m <sup>3</sup>  |
| EDTA tetrasodium salt             | Ethylenediaminetetraacetic acid, tetrasodium salt; (Tetrasodium EDTA) | 82 mg/m <sup>3</sup>   | 830 mg/m <sup>3</sup> | 5000 mg/m <sup>3</sup> |

| Ingredient                        | Original IDLH | Revised IDLH  |
|-----------------------------------|---------------|---------------|
| sodium carbonate                  | Not Available | Not Available |
| sodium metasilicate, pentahydrate | Not Available | Not Available |
| sodium tripolyphosphate           | Not Available | Not Available |
| EDTA tetrasodium salt             | Not Available | Not Available |
| sodium percarbonate               | Not Available | Not Available |

**Exposure controls**

|                                         |                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate engineering controls</b> | Maintain adequate ventilation at all times.<br>If ventilation is poor, the use of a local extraction ventilation system is recommended.                                                                                                                                                                                              |
| <b>Personal protection</b>              |                                                                                                                                                                                                                                                     |
| <b>Eye and face protection</b>          | Safety glasses with unperforated side shields, or Chemical goggles, whenever there is a danger of the material coming in contact with the eyes. Goggles must be properly fitted.<br>Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face protection. |
| <b>Skin protection</b>                  | See Hand protection below                                                                                                                                                                                                                                                                                                            |
| <b>Hands/feet protection</b>            | Elbow length gloves. Natural rubber or nitrile is recommended for this application.                                                                                                                                                                                                                                                  |
| <b>Body protection</b>                  | See Other protection below                                                                                                                                                                                                                                                                                                           |
| <b>Other protection</b>                 | Eyewash unit.<br>If atmosphere is dusty, the use of respiratory protection is recommended.                                                                                                                                                                                                                                           |
| <b>Thermal hazards</b>                  | Not Available                                                                                                                                                                                                                                                                                                                        |

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

|                                                     |                               |                                                |                |
|-----------------------------------------------------|-------------------------------|------------------------------------------------|----------------|
| <b>Appearance</b>                                   | White powder with blue flecks |                                                |                |
| <b>Physical state</b>                               | Divided Solid Powder          | <b>Relative density (Water = 1)</b>            | Not Applicable |
| <b>Odour</b>                                        | Not Available                 | <b>Partition coefficient n-octanol / water</b> | Not Available  |
| <b>Odour threshold</b>                              | Not Available                 | <b>Auto-ignition temperature(°C)</b>           | Not Applicable |
| <b>pH (as supplied)</b>                             | Not Applicable                | <b>Decomposition temperature</b>               | Not Available  |
| <b>Melting point / freezing point (°C)</b>          | Not Applicable                | <b>Viscosity (cSt)</b>                         | Not Applicable |
| <b>Initial boiling point and boiling range (°C)</b> | Not Applicable                | <b>Molecular weight (g/mol)</b>                | Not Available  |
| <b>Flash point (°C)</b>                             | Not Applicable                | <b>Taste</b>                                   | Not Available  |
| <b>Evaporation rate</b>                             | Not Available                 | <b>Explosive properties</b>                    | Not Available  |
| <b>Flammability</b>                                 | Not Applicable                | <b>Oxidising properties</b>                    | Not Available  |
| <b>Upper Explosive Limit (%)</b>                    | Not Applicable                | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Applicable |
| <b>Lower Explosive Limit (%)</b>                    | Not Applicable                | <b>Volatile Component (%vol)</b>               | Not Available  |
| <b>Vapour pressure (kPa)</b>                        | Not Applicable                | <b>Gas group</b>                               | Not Available  |
| <b>Solubility in water (g/L)</b>                    | Partly miscible               | <b>pH as a solution (1%)</b>                   | 13             |
| <b>Vapour density (Air = 1)</b>                     | Not Applicable                | <b>VOC g/L</b>                                 | Not Available  |

**SECTION 10 STABILITY AND REACTIVITY**

|                                           |                                                                                                                                  |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | See section 7                                                                                                                    |
| <b>Chemical stability</b>                 | Unstable in the presence of incompatible materials.<br>Product is considered stable.<br>Hazardous polymerisation will not occur. |
| <b>Possibility of hazardous reactions</b> | See section 7                                                                                                                    |
| <b>Conditions to avoid</b>                | See section 7                                                                                                                    |
| <b>Incompatible materials</b>             | See section 7                                                                                                                    |
| <b>Hazardous decomposition products</b>   | See section 5                                                                                                                    |

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhaled      | Inhaling the product may irritate the respiratory tract. Symptoms include cough, choking, pain and damage to the mucous membrane.                                                                                                                                                                                                                                                                                                   |
| Ingestion    | Ingestion may produce burns around the mouth, ulcerations and swellings of the mucous membranes, profuse saliva production, with an inability to speak or swallow. Both the oesophagus and stomach may experience burning pain; vomiting and diarrhoea may follow. Accidental ingestion of the material may be damaging to the health of the individual.                                                                            |
| Skin Contact | The material can produce severe chemical burns following direct contact with the skin. Skin contact is not thought to have harmful health effects (as classified under EC Directives Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.  |
| Eye          | If applied to the eyes, this material causes severe eye damage. Direct eye contact can cause pain and burns. There may be swelling, epithelium destruction, clouding of the cornea and inflammation of the iris. Mild cases often resolve; severe cases can be prolonged with complications such as persistent swelling, scarring, permanent cloudiness, bulging of the eye, cataracts, eyelids glued to the eyeball and blindness. |
| Chronic      | Repeated or prolonged skin contact may cause drying and cracking of the skin and possibly dermatitis. Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.                                          |

## Toxicological effects of ingredients

|                                  |                                |                                                                                                                                            |
|----------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| sodium metasilicate pentahydrate | Acute toxicity                 | LD50 Oral - rat - 847 mg/kg                                                                                                                |
|                                  | Skin corrosion/irritation      | Corrosive. Causes skin burns                                                                                                               |
|                                  | Eye damage/irritation          | Corrosive. Causes eye burns                                                                                                                |
|                                  | Respiratory/skin sensitization | No Data Available                                                                                                                          |
|                                  | Germ cell mutagenicity         | Sodium silicate was not mutagenic to the bacterium E. Coli when tested in a mutagenicity bioassay                                          |
|                                  | Carcinogenicity                | There are no known reports of carcinogenicity of sodium silicates.                                                                         |
|                                  | Reproductive toxicity          | Decreased numbers of births and survival to weaning was reported for rats fed sodium silicate in their drinking water at 600 and 1200 ppm. |
|                                  | STOT (single exposure)         | Dust corrosive to respiratory tract                                                                                                        |
|                                  | STOT (repeated exposure)       | No Data Available                                                                                                                          |
|                                  | Aspiration toxicity            | No Data Available                                                                                                                          |
| sodium tripolyphosphate          | Acute toxicity                 | Oral LD50 (rat) 2000 mg/kg Inhalation LC50 (rat) 390 mg/kg Dermal LD50 (rat) 4640 mg/kg                                                    |
|                                  | Skin corrosion/irritation      | Not a skin irritant                                                                                                                        |
|                                  | Eye damage/irritation          | no adverse effect observed (not irritating)                                                                                                |
|                                  | Respiratory/skin sensitization | no adverse effect observed (not sensitising)                                                                                               |
|                                  | Germ cell mutagenicity         | No adverse effect observed (negative)                                                                                                      |
|                                  | Carcinogenicity                | This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens             |
|                                  | Reproductive toxicity          | No Data Available                                                                                                                          |
|                                  | STOT (single exposure)         | No Data Available                                                                                                                          |
|                                  | STOT (repeated exposure)       | No Data Available                                                                                                                          |
|                                  | Aspiration toxicity            | No Data Available                                                                                                                          |
| EDTA tetrasodium salt            | Acute toxicity                 | Oral LD50 (rat): >1780 - <2000 mg/kg                                                                                                       |
|                                  | Skin corrosion/irritation      | Contact with skin may result in irritation                                                                                                 |
|                                  | Eye damage/irritation          | Irritant (rabbit).                                                                                                                         |
|                                  | Respiratory/skin sensitization | Not sensitizing                                                                                                                            |
|                                  | Germ cell mutagenicity         | No adverse effect observed                                                                                                                 |
|                                  | Carcinogenicity                | Not listed as carcinogenic according to the International Agency for Research on Cancer (IARC).                                            |
|                                  | Reproductive toxicity          | No Data Available                                                                                                                          |
|                                  | STOT (single exposure)         | No Data Available                                                                                                                          |
|                                  | STOT (repeated exposure)       | No Data Available                                                                                                                          |
|                                  | Aspiration toxicity            | No Data Available                                                                                                                          |
| sodium percarbonate              | Acute toxicity                 | Oral LD50 (rat) 1034 – 2000 mg/kg Dermal LD50 (rabbit) >2000 mg/kg                                                                         |
|                                  | Skin corrosion/irritation      | Mild irritant (Rabbit).                                                                                                                    |
|                                  | Eye damage/irritation          | Causes serious eye damage                                                                                                                  |
|                                  | Respiratory/skin sensitization | Not a skin sensitizer                                                                                                                      |
|                                  | Germ cell mutagenicity         | No adverse effect observed in tests conducted                                                                                              |
|                                  | Carcinogenicity                | Not a carcinogen                                                                                                                           |
|                                  | Reproductive toxicity          | Unlikely to be toxic to reproduction                                                                                                       |
|                                  | STOT (single exposure)         | No Data Available                                                                                                                          |
|                                  | STOT (repeated exposure)       | No Data Available                                                                                                                          |
|                                  | Aspiration toxicity            | No Data Available                                                                                                                          |
| sodium carbonate                 | Acute toxicity                 | Oral LD50 (rat) 2800 mg/kg Dermal LD50 (rat) 2000 mg/kg                                                                                    |
|                                  | Skin corrosion/irritation      | Prolonged or repeated contact may cause mild irritation                                                                                    |
|                                  | Eye damage/irritation          | Irritant. May cause pain, redness, discomfort                                                                                              |
|                                  | Respiratory/skin sensitization | Not sensitizing                                                                                                                            |
|                                  | Germ cell mutagenicity         | Not genotoxic                                                                                                                              |
|                                  | Carcinogenicity                | No Data Available                                                                                                                          |
|                                  | Reproductive toxicity          | Not toxic to reproduction                                                                                                                  |
|                                  | STOT (single exposure)         | No data available                                                                                                                          |
|                                  | STOT (repeated exposure)       | No data available                                                                                                                          |
|                                  | Aspiration toxicity            | No data available                                                                                                                          |

**SECTION 12 ECOLOGICAL INFORMATION****Toxicity**

|                                   | Endpoint | Duration (Hr.) | Species                       | Value            |
|-----------------------------------|----------|----------------|-------------------------------|------------------|
| sodium carbonate                  | LC50     | 96             | Fish                          | 300-mg/L         |
|                                   | EC50     | 48             | Crustacea                     | -156.6-298.9mg/L |
|                                   | EC50     | 96             | Algae or other aquatic plants | 242-mg/L         |
|                                   | NOEC     | 48             | Crustacea                     | <424-mg/L        |
| sodium metasilicate, pentahydrate | LC50     | 96             | Fish                          | 210mg/L          |
|                                   | EC50     | 48             | Crustacea                     | -22.94-49.01mg/L |
|                                   | EC50     | 72             | Algae or other aquatic plants | 207mg/L          |
|                                   | EC0      | 72             | Algae or other aquatic plants | 35mg/L           |
|                                   | NOEL     | 120            | Algae or other aquatic plants | 2.172668-mg/L    |
| sodium percarbonate               | EC50     | 48             | Crustacea                     | =4.9mg/L         |
|                                   | NOEC     | 48             | Crustacea                     | =2mg/L           |
| EDTA tetrasodium salt             | LC50     | 96             | Fish                          | 41mg/L           |
|                                   | EC50     | 48             | Crustacea                     | 140mg/L          |
|                                   | EC50     | 72             | Algae or other aquatic plants | =1.01mg/L        |
|                                   | EC10     | 72             | Algae or other aquatic plants | =0.48mg/L        |
|                                   | NOEC     | 33             | Algae or other aquatic plants | 0.0003802-mg/L   |
| sodium tripolyphosphate           | EC50     | 48             | Crustacea                     | >70.7-<101.3mg/L |
|                                   | EC50     | 96             | Algae or other aquatic plants | 69.2mg/L         |

Harmful to aquatic organisms.

Prevent, by any means available, spillage from entering drains or water courses.

DO NOT discharge into sewer or waterways.

**Persistence and degradability**

| Ingredient       | Persistence: Water/Soil | Persistence: Air |
|------------------|-------------------------|------------------|
| sodium carbonate | LOW                     | LOW              |

**Bio accumulative potential**

| Ingredient       | Bio accumulation       |
|------------------|------------------------|
| sodium carbonate | LOW (LogKOW = -0.4605) |

**Mobility in soil**

| Ingredient       | Mobility       |
|------------------|----------------|
| sodium carbonate | HIGH (KOC = 1) |

**SECTION 13 DISPOSAL CONSIDERATIONS****Waste treatment methods**

|                              |                                                                                                        |
|------------------------------|--------------------------------------------------------------------------------------------------------|
| Product / packaging disposal | Recycle containers whenever possible.                                                                  |
|                              | Product residues and containers should be disposed of in accordance with local government regulations. |

**SECTION 14 TRANSPORT INFORMATION****Labels Required**

|                  |    |
|------------------|----|
| Marine Pollutant | NO |
| HAZCHEM          | 2X |

Land transport (ADG): Not applicable – NOT REGULATED FOR THE TRANSPORT OF DANGEROUS GOODS WHEN IN PACK SIZES OF 5KG OR LESS

**SECTION 15 REGULATORY INFORMATION****Safety, health and environmental regulations / legislation specific for the substance or mixture****SODIUM CARBONATE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  
 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6  
 Australian Inventory of Industrial Chemicals (AIIC)

**SODIUM METASILICATE, PENTAHYDRATE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
 Australian Inventory of Industrial Chemicals (AIIC)

**SODIUM PERCARBONATE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  
 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6  
 Australian Inventory of Industrial Chemicals (AIIC)

**EDTA TETRASODIUM SALT IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals  
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4  
Australian Inventory of Industrial Chemicals (AIIC)

**SODIUM TRIPOLYPHOSPHATE IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australian Inventory of Industrial Chemicals (AIIC)

**SECTION 16 OTHER INFORMATION****Revision Schedule**

|                      |            |
|----------------------|------------|
| <b>Revision Date</b> | 15/07/2021 |
| <b>Initial Date</b>  | 08/12/2016 |

**SDS Version Summary**

| Version | Issue Date | Sections Updated                                                      |
|---------|------------|-----------------------------------------------------------------------|
| 2.1     | 07/01/2021 | Sections 1, 2, 3, 5, 8, 11, 12, 15, 16 have been updated or corrected |
| 2.2     | 15/07/2021 | Sections 1, 3 and 14                                                  |

**Other information**

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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**Definitions and abbreviations**

|          |                                                         |
|----------|---------------------------------------------------------|
| PC-TWA;  | Permissible Concentration-Time Weighted Average         |
| PC-STEL; | Permissible Concentration-Short Term Exposure Limit     |
| IARC:    | International Agency for Research on Cancer             |
| ACGIH:   | American Conference of Government Industrial Hygienists |
| STEL:    | Short Term Exposure Limit                               |
| TEEL:    | Temporary Emergency Exposure Limit                      |
| IDLH:    | Immediate Danger to Life or Health Concentrations       |
| OSF:     | Odour Safety Factor                                     |
| NOAEL:   | No Observed Effects Level                               |
| TLV:     | Threshold Limit Value                                   |
| LOD:     | Limit Of Detection                                      |
| OTV:     | Odour Threshold Value                                   |
| BCF:     | Bio Concentration Factors                               |
| BEI:     | Biological Exposure Index                               |

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**End of SDS**