

# SAFETY DATA SHEET

Product Name: Tricleanium

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Issued: 22 April 2025

## Section 1 - Identification of The Material and Supplier

Tradeware  
46 Birralelee Rd  
Regency Park, SA 5010

Phone: 1300 658 494 (office hours)  
Fax: 1300 658 453

**Product Name:** Tricleanium  
**Chemical name:** Trisodium Phosphate  
**Synonyms:** Disodium phosphate dodecahydrate; Phosphoric acid, trisodium salt, dodecahydrate  
**Recommended Use of the Chemical and Restrictions on Use:** Detergent for cleaning and stain removal  
**Emergency Telephone:** 131126 (Poisons Information Centre - 24 hours)  
000 (Transport, fire, ambulance only)

**Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information."**

## Section 2 - Hazards Identification

### Statement of Hazardous Nature

This product is classified as a. Hazardous substance according to the criteria of GHS and as listed in Australian HCIS database.

It is a Dangerous Good according to Australian Dangerous Goods (ADG) Code 7.9,

**POISONSCCHEDULE:** S5

### GHS Category and Hazard Statement(s)

Skin corrosion irritation – category 1C	H314	Causes severe skin burns and eye damage
Eye damage/irritation- Category 2A	H319	Causes serious eye irritation.
Specific Target Organ Toxicity (Single Exposure) - Category 3	H335:	May cause respiratory irritation
Hazardous to aquatic environment Short term/ (Acute) hazard - Category 3	H402	Harmful to aquatic life

**GHS Signal word:** Danger



### Precautionary statements

#### Prevention:

P260: Do not breathe dusts or mists  
P264: Wash contacted areas thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear eye protection and protective gloves  
P273: Avoid release to the environment. - if this is not the intended use

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**SAFTETY DATA SHEET****Response:**

P301+P330+P331: IF SWALLOWED: rinse mouth, Do NOT induce vomiting

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

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER/doctor/...if you feel unwell.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P391: Collect Spillage

**Storage:**

P405: Store locked up

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

**Disposal:**

P501: Dispose of contents/ container to.in accordance with local/ regional/ national/ international Regulations

**Section 3 - Composition/Information on Ingredients**

Ingredients	CAS No	Conc,% w/w
Trisodium phosphate	10101-89-0	98 - 100

**Section 4 - First Aid Measures****General Information:**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

**Inhalation:** If irritation occurs, contact a Poisons Information Centre, or call a doctor. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. In severe cases, symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.

**Skin Contact:** Quickly and gently brush away excess particles. Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical attention.

**Eye Contact:** Quickly and gently brush particles from eyes. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

**Ingestion:** If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information

**Section 5 - Fire Fighting Measures**

Centre, or call a doctor.

**Fire and Explosion Hazards:** There is no risk of an explosion from this product under normal circumstances if it is

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involved in a fire. It is not combustible.

**Suitable Extinguishing Media:** Use extinguishing media suited to surrounding burning materials.

**Specific hazards arising from the chemical:** When involved in a fire, this material may decompose and produce irritating vapours, acrid smoke and toxic gases, including oxides of phosphorous.

**Special protective equipment and precautions for firefighters:** Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

**Hazchem: 2X HIN: 88/80**

## Section 6 - Accidental Release Measures

**Accidental release:** This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For minor spills, clean up, rinsing to sewer and put empty container in garbage. Although no special protective clothing is normally necessary because of occasional minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products. In the event of a major spill, stop leak if you can do so without risk. Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing. Prevent spillage from entering drains or water courses and call emergency services.

## Section 7 - Handling and Storage

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10. Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation,

**Storage:** This product is a hazardous substance. Observe the Health and Safety at Work (Hazardous Substances) Regulations 2017 regarding sale, transport and storage of this substance. Make sure that containers of this product are kept tightly closed and in original containers. Keep containers dry and away from water. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label. \*Use corrosion-resistant structural materials, lighting and ventilation systems in the storage area. Floors should be sealed to prevent absorption of this material. Have appropriate extinguishing equipment in the storage area.

## Section 8 - Exposure Controls and Personal Protection

The following Australian/New Zealand Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

### Exposure Standards

Worksafe New Zealand has not set any workplace exposure standards. For dusts from solid substances without specific occupational exposure standards:- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m<sup>3</sup> (measured as inhalable dust). - New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m<sup>3</sup> (total); TWA = 3 mg/m<sup>3</sup> (respirable).

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation:** No special ventilation requirements are normally necessary for this product. However, make sure that the work environment remains clean and that dust is minimised.

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**Eye Protection:** Protective glasses or goggles must be worn when this product is being used. Failure to protect your eyes may lead to severe harm to them or to general health. Emergency eye wash facilities must also be available in an area close to where this product is being used.

**Skin Protection:** Prevent skin contact by wearing impervious gloves, clothes and, preferably, an apron. Make sure that all skin areas are covered. See below for suitable material types.

**Protective Material Types:** We suggest that protective clothing be made from the following materials: rubber, PVC.

**Respirator:** If there is a significant chance that dusts are likely to build up in the area where this product is being handled, we recommend that you use a suitable dust mask.

Eyebaths or eyewash stations and safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

**Section 9 - Physical and Chemical Properties:**

<b>Physical Description &amp; colour:</b>	White crystalline powder.
<b>Odour:</b>	No odour.
<b>Boiling Point:</b>	Not applicable t.
<b>Freezing/Melting Point:</b>	No specific data. Solid at normal temperatures.
<b>Volatiles:</b>	Not applicable.
<b>Vapour Pressure:</b>	Negligible at normal ambient temperatures.
<b>Vapour Density:</b>	Not applicable t.
<b>Specific Gravity:</b>	Not applicable t.
<b>Bulk Density:</b>	Bulk density 1.6
<b>Water Solubility:</b>	280g/L at 16°C
<b>pH:</b>	12.1 (1% in water).
<b>Volatility:</b>	Negligible at normal ambient temperatures.
<b>Odour Threshold:</b>	No data.
<b>Evaporation Rate:</b>	Not applicable.
<b>Coeff Oil/water Distribution:</b>	No data
<b>Viscosity:</b>	Not applicable.
<b>Autoignition temp:</b>	Not applicable - does not burn.

**Section 10 - Stability and Reactivity**

**Reactivity:** Trisodium Phosphate can react with air to form disodium phosphate and sodium carbonate. Trisodium phosphate forms strong caustic solution, similar to soda lye. Trisodium phosphate will react with metals such as aluminium, zinc and galvanized iron to form flammable hydrogen gas. Trisodium phosphate may react violently with magnesium.

**Chemical Stability:** Stable under conditions of standard temperature and pressure. This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts. Contact the supplier for advice on shelf life properties.

**Conditions to Avoid:** Avoid high temperatures, exposure to air and incompatible materials.

**Materials to Avoid:** Trisodium phosphate is incompatible with strong acids and may react violently; in solution reaction may cause splattering. In solution, Trisodium phosphate can be corrosive to some metals, including aluminium, zinc and tin. Trisodium phosphate is corrosive to grey cast iron at high temperatures and may be corrosive to steel or brass, if wet

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**Hazardous Decomposition Products:** This material may decompose and produce irritating vapours, acrid smoke and toxic gases, including oxides of phosphorous. Solutions can react with metals such as aluminium, zinc and galvanized iron to produce highly flammable hydrogen gas that may explode if ignited.

**Hazardous Polymerisation:** Will not occur.

## Section 11 - Toxicological Information

**Acute toxicity:** Acute toxicity (Oral) - LD50, Rat: 7,400 mg/kg. Acute toxicity (Dermal)- LD50, Rat: >7,940 mg/kg.

### Potential Health Effects

**Acute toxicity:** Ingestion of this product in large volumes may irritate or burn the tissues of the mouth, oesophagus and other tissues of the digestive system. Symptoms of exposure can include vomiting, diarrhoea, and nausea. In severe cases, death may result. The estimated fatal dose of sodium phosphates is 50 g.

**Skin corrosion/irritation:** Causes skin irritation. This product can cause moderate to severe irritation of the skin, depending on duration and concentration of exposure. Severe exposure or contact in the presence of moisture, or if product is in solution can cause burns. Alkalis penetrate skin slowly. The extent of damage therefore depends on duration of contact. Repeated skin contact to low levels may lead to dermatitis (red, cracked skin).

**Eye damage/irritation:** Causes serious eye irritation. Exposure to particulates or solution of this product may cause moderate to severe irritation of the eyes, including burns, depending on duration and concentration of contact. Severe contact with the eyes can cause corneal injury, including clouding and burns, which could lead to blindness. Permanent damage (cloudiness of the cornea) has resulted from contact with Trisodium phosphate, anhydrous solution, in two case reports, one involving hot solution. Concentrations were not reported. In another case report, injury occurred as a result of a splash of aqueous solution but healed within 48 hours (concentration not reported).

**Respiratory/skin sensitisation:** No information available.

**Germ cell mutagenicity:** No information available.

**Carcinogenicity:** Trisodium phosphate is not considered carcinogenic by ACGIH, IARC, NIOSH, NTP or OSHA.

**Reproductive toxicity:** No information available.

**STOT (single exposure):** May cause respiratory irritation. Breathing dusts or particulates generated by this product or to mists if in solution, can lead to moderate to severe irritation of the nose, throat or respiratory system, depending on duration and concentration of exposure. Symptoms of minor exposure could include coughing, wheezing, and shortness of breath. Severe inhalation exposure can result in pulmonary edema (a condition of fluid in the lungs), which can be fatal.

**STOT (repeated exposure):** Long term skin overexposure to this product may lead to dermatitis (red, itchy skin).-  
Aspiration toxicity: No information available. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

## Section 12 – Ecological Information

Salts, acids and bases are typically diluted and neutralised when released to the environment in small quantities. However, until diluted or neutralised it will kill all aquatic organisms it contacts due to extreme pH.

**Toxicity:** No data available .

**Persistence and degradability:** The methods for determining the biological degradability are not applicable to inorganic substances.

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**Bioaccumulative potential:** No data available.

**Mobility in soil:** No data available .

**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted .

**Endocrine disrupting properties:** No data available 12.7 Other adverse effects No data available.

## Section 13 - Disposal Considerations

**Disposal:** Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, dispose of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

## Section 14 - Transport Information

Consult the ADG 7.9, IMDG and ICAO/IATA Codes for all the transport requirements for the specified UN Number.

	Land Transport (ADG 7.8)	Sea Transport (IMDG)	Air Transport (ICAO/IATA)
UN Number	3262	3262	3262
UN proper shipping name	SOLID, BASIC, INORGANIC, N.O.S. (Trisodium Phosphate)	SOLID, BASIC, INORGANIC, N.O.S. (Trisodium Phosphate)	SOLID, BASIC, INORGANIC, N.O.S. (Trisodium Phosphate),
Transport Hazard Class	8	8	98
Packaging Group	II	II	II
Marine Pollutant		No	No
Special Provisions*	274		
Limited Quantities*	1 kg		
Packing instructions*	P002		

\* Applies to land transport only. Consult IMDG Code for sea transport and ICAO/IATA Code for air transport provisions and instructions.

P002. Page 531 ADG 7.9. As apples to Tricleanium - Plastic Inner packaging maximum 50 kg.  
Special Provision 274 related to inclusion of trisodium phosphate with the proper shipping name.

Hazchem: 2X HIN: 88/80

## Section 15 - Regulatory Information

<b>Poisons Standard (Scheduling):</b>	Schedule 5 (ALKALINE SALTS, being the carbonate, silicate or phosphate salts of sodium or potassium alone or in any combination: in solid preparations, the pH of which in a 10 g/L aqueous solution is more than 11.5;)
<b>APVMA Product Number:</b>	Registration not required
<b>Listing in the Australian Inventory of Chemical Substances (AICS)</b>	Listed as Phosphoric acid, trisodium salt, dodecahydrate

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## Section 16 - Other Information

### Glossary:

<b>ADG</b>	Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.8, 2023
<b>AS/NZS</b>	Australian Standard/New Zealand Standard
<b>CAS Number:</b>	Unique Chemical Abstracts Service Registry Number
<b>GHS:</b>	Globally Harmonized System of classification and labelling of chemicals (GHS)
<b>Hazchem Code:</b>	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters ( <a href="https://www.ricardo.com/en/news-and-insights/insights/dangerous-goods-emergency-action-code-list-2023#contact-us">https://www.ricardo.com/en/news-and-insights/insights/dangerous-goods-emergency-action-code-list-2023#contact-us</a> . )
<b>HCIS:</b>	Hazardous Chemical Information System. ( <a href="http://hcis.safeworkaustralia.gov.au/HazardousChemical">http://hcis.safeworkaustralia.gov.au/HazardousChemical</a> )
<b>HIN</b>	Hazard Identification Number
<b>IARC:</b>	International Agency for Research on Cancer
<b>IC<sub>50</sub></b>	International Agency for Research on Cancer
<b>LD<sub>50</sub>:</b>	Half maximal inhibitory concentration (IC <sub>50</sub> ) is a measure of the potency of a substance in inhibiting a specific biological or biochemical function.
<b>IDLH:</b>	Immediately dangerous to life or health (IDLH) is <b>defined</b> by the US National Institute for Occupational Safety and Health (NIOSH)
<b>LC<sub>50</sub>:</b>	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population.
<b>NTP:</b>	National Toxicology Program (USA)
<b>Peak Limitation:</b>	A maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.
<b>SDS:</b>	Safety Data Sheet
<b>STEL:</b>	Short term exposure limit (STEL) means the time-weighted average maximum airborne concentration of a substance calculated over a 15-minute period.
<b>TWA:</b>	8-hour Time-weighted average (TWA) means the maximum average airborne concentration of a substance when calculated over an eight-hour working day, for a five-day working week.
<b>WES:</b>	Workplace exposure standard
<b>UN Number:</b>	United Nations Dangerous Goods Number

### References:

Section 3 of this SDS is based on information provided by the manufacturer.

Work Safe Australia Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (June 2023). The exposure standards comply with the Australian Workplace Exposure Standards for Airborne Contaminants. The Dangerous Goods Classification complies with the Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.9, 2024. Other information from ChemIDPlus and linked databases and the European Chemicals Agency Classification and Labelling database.

**Sections Revised:** 2 & 16

**Replaces revision:** 13 March 2025

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This Safety Data Sheet (SDS) has been prepared in compliance with the Work Safe Australia Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (June 2023). The information in this SDS should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Tradeware shall not be held liable for any damage resulting from handling or from contact with the above product.

**This SDS contains only safety-related information. For other data see product literature.  
Please read all labels carefully before using product.**

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

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