

Material Safety Data Sheet Chlorinated Trisodium Phosphate

1. IDENTIFICATION

Product Name Chlorinated Trisodium Phosphate

Other Names Chlorinated Trisodium Phosphate; Sodium hypochlorite phosphate (Na13(CIO)(PO4)4)

DETERGENTS, STAIN REMOVER, CLEANING AND STERILISING Uses

Chemical Family No Data Available

(Na3PO4.11H20)4.NaOCI **Chemical Formula**

Chemical Name Chlorinated Trisodium Phosphate

Product Description No Data Available

Contact Information Organisation Location Telephone Ask For

> Redox Pty Ltd 2 Swettenham Road Minto NSW 2566

Australia

11 Mayo Road +64-9-2506222

Wiri Auckland 2104 New Zealand

Poisons Information Centre Westmead NSW 1800-251525

131126

+61-2-97333000

MSDS Officer

Chemcall Australia 1800-127406 New Zealand 0800-243622

+64-3-3530199

National Poisons Centre New Zealand 0800-764766

2. HAZARD IDENTIFICATION

ADG Code Non-Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code).

ASCC Hazard Classification Hazardous according to the criteria of ASCC [NOHSC:1008(2004)]

Χi Irritant Categories

R36/37/38 Irritating to eyes, respiratory system and skin. Risk Phrases

S22 Do not breathe dust. Safety Phrases

> S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S46 If swallowed, seek medical advice immediately and show this container or label.

HSNO Hazard Classification

Poisons Schedule (Aust) 5

This Material Safety Data Sheet may not provide exhaustive guidance for all HSNO Controls assigned to this substance. The EPA (New Zealand) web site should be consulted for a full list of triggered controls and cited regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Phone +61 2 9733 3000 +61 2 9733 3111 E-mail svdnev@redox com www.redox.com 92 000 762 345

Adelaide Brisbane Melbourne Perth Sydney

Auckland Hawke's Bay Kuala Lumpur



Chemical Entity	Formula	CAS Number	Proportion
Trisodium Phosphate, Chlorinated	No Data Available	11084-85-8	>99.0 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed For advice, contact a Poisons Information Centre (Phone Australia 131126, New Zealand 0800 764 766) or a

doctor. If swallowed, do NOT induce vomiting.

Eye If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to

stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

FIRST AID FACILITIES: Potable water should be available to rinse eyes or skin. Provide eye baths and safety

showers.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue

flushing until advised to stop by the Poisons Information Centre or a doctor.

InhaledRemove from source of exposure to fresh air. Seek medical assistance if the effects persist.Advice to DoctorTreat symptomatically based on judgement of doctor and individual reactions of patient.Medical Conditions Aggravated byNo information available on medical conditions aggravated by exposure to this product.

Exposure

5. FIRE FIGHTING MEASURES

Flammability Conditions The product is non-combustible

Extinguishing Media Water spray, foam, carbon dioxide or dry chemical powder.

Fire and Explosion Hazard The product is non-combustible; The product in sufficient quantity and reduced particle size is capable of creating

a dust explosion.

Hazardous Products of

Combustion

Hazardous fumes such as chlorine may be produced when involved in a fire. The packaging material may burn to

emit noxious fumes.

Special Fire Fighting Instructions Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.

Personal Protective EquipmentFire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

Flash Point

No Data Available

Lower Explosion Limit

No Data Available

Upper Explosion Limit

No Data Available

Auto Ignition Temperature

No Data Available

Hazchem Code No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Ensure adequate ventilation, work up wind or increase ventilation. Keep spectators away - rope off the area.

Avoid accidents, clean up immediately. Slippery when spilt. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools and

equipment.

Clean Up Procedures Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a

suitable, labelled container and dispose of promptly as hazardous waste. DO NOT INCINERATE. The by-products

can be hazardous.

Containment Stop leak if safe to do so. Isolate the danger area. Contain the spill and prevent contamination into confined areas,

drains and waterways.

Decontamination Wash area down with plenty of water, flushing residues to drain, if permitted.

Environmental Precautionary Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental

Measures Protection Authority or your local Waste Management.

Evacuation Criteria Evacuate all unnecessary personnel.

Personal Precautionary Measures Personnel involved in the clean up should wear full protective clothing as listed in section 8.

7. HANDLING AND STORAGE

Handling Keep containers closed at all times - check regularly for leaks or spills. Transport and store upright. Avoid eye

contact and repeated or prolonged skin contact. Do not eat, drink or smoke in contaminated areas. Always remove contaminated clothing and wash hands before eating, drinking, smoking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Keep containers closed when not in use to ensure contamination does not occur. Check regularly for leaks. Do not combine part drums of the same

product, as this may be a source of contamination. Do not mix with other chemicals, especially acids.

Storage Storage Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for

deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Protect from direct sunlight and keep away from foodstuffs. This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By

Road and Rail.

Container Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No exposure standard has been established for this product by the Australian Safety and Compensation Council

(ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m3 (for inspirable dust) and

3mg/m3 (for respirable dust).

Exposure Limits No Data Available

Biological Limits No information available on biological limit values for this product.

Engineering Measures Use with local exhaust ventilation or while wearing a respirator. A system of local and/or general exhaust is

recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general

work area. Ensure ventilation is adequate to maintain air concentrations below Exposure Standards.

Personal Protection Equipment RESPIRATOR: Avoid breathing dust. Where ventilation is not adequate, respiratory protection may be required.

Any P1 or P2 particulate filter respirator will be suitable (AS1715/1716). EYES: Wear safety glasses/goggles with side shield protection (AS1336/1337).

HANDS: Wear elbow-length natural rubber, nitrile or PVC impervious gloves. Always check with the glove manufacturer or your personal protective equipment supplier regarding the correct type of glove to use (AS2161). CLOTHING: Wear waterproof apron, coveralls, trousers, long sleeved shirt, closed in shoes and/or safety footwear

(AS3765/2210).

Special Hazards Precaustions Protective equipment must be worn at all times. Risk assessments should always be conducted to identify the

hazards and in turn determine the appropriate personal protective equipment for the hazard.

Work Hygienic Practices No Data Available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid
Appearance Powder

Odour Slight chlorine odour

Colour White or pink pH 11.7 1% Solution

Vapour Pressure Practically none (@ No Data Available)

Relative Vapour Density

No Data Available

Boiling/Melting Point

No Data Available

Solubility Soluble in water - 20 g per 100g °C

Freezing Point

No Data Available

Specific Gravity

No Data Available

Flash Point

No Data Available

Auto Ignition Temp

No Data Available

Evaporation Rate

No Data Available

Bulk Density

0.65 - 0.75 g/mL

Corrosion Rate

No Data Available

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Decomposition Temperature No Data Available Density No Data Available Specific Heat No Data Available Molecular Weight No Data Available **Net Propellant Weight** No Data Available No Data Available Octanol Water Coefficient No Data Available Particle Size Partition Coefficient No Data Available **Saturated Vapour Concentration** No Data Available Vapour Temperature No Data Available No Data Available Viscosity Volatile Percent No Data Available **VOC Volume** No Data Available **Additional Characteristics** No Data Available Potential for Dust Explosion No Data Available Fast or Intensely Burning No Data Available Characteristics Flame Propagation or Burning No known fire hazard. Rate of Solid Materials Non-Flammables That Could No Data Available Contribute Unusual Hazards to a

Reactions That Release Gases or

Properties That May Initiate or

Contribute to Fire Intensity

Vapours

Release of Invisible Flammable Vapours and Gases

No Data Available

No Data Available

No Data Available

10. STABILITY AND REACTIVITY

General Information SHELF LIFE: 2 years from manufacturing date (when stored as directed).

Chemical Stability

The product may be unstable above 60 deg C. The amount of available chlorine slowly diminishes: cool storage

prolongs viability. The shelf life is 2 years.

Conditions to Avoid Do not combine part drums of the same product, as this may be a source of contamination. DO NOT mix with

acidic compounds as toxic Chlorine gas may be liberated.

Materials to Avoid Acids, oxidisers, and aluminium.

Hazardous Decomposition

Products

Decomposes above 60 deg C first losing water then chlorine to yield a sodium phosphate residue which melts at

>1000 deg C. The packaging material may burn to emit noxious fumes.

Hazardous Polymerisation May react with acids to liberate a toxic chlorine gas. Avoid contact also with caustic alkalis, peroxy-salts

(perborate and percarbonate), reducing agents, cationic surfactants and many readily chlorinated non-ionic

surfactants.

11. TOXICOLOGICAL INFORMATION

General Information Oral LD50 Rat: 5000 - 10000 mg/Kg

CHRONIC TOXICITY:

Due to its hypochlorite and high pH values this product can irritate skin, eye and mucous membranes particularly

under wet conditions when inflammation can occur.

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the

product label.

Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Eyelritant Can severely irritate the eyes. May cause severe damage.

IngestionCan be severely irritating if swallowed.InhalationCapable of causing irritation if dusty.

SkinIrritant Capable of causing skin irritation and may defat the skin with continual use.

Carcinogen Category 0

12. ECOLOGICAL INFORMATION

Ecotoxicity No specific data avialable but high concentrations in receiving waters will harm aquatic life by raising pH and by

chlorination effects. The orthophosphate can act as a plant nutrient and precipitate heavy metals. Avoid contaminating waterways. The product is highly alkaline. If large spills occurred a water pH rise could be responsible for an environmental effect on aquatic organisms. If not neutralised this product could potentially be toxic for aquatic organisms because of its alkalinity (pH> 9 can have an effect on fish, with possible fish death).

pH> 8.5 could be destroying for algae.

Persistence/Degradability No organic components: AS4351 does not apply.

Mobility No information available.

Environmental FateNo Data AvailableBioaccumulation PotentialNo Data AvailableEnvironmental ImpactNo Data Available

13. DISPOSAL CONSIDERATIONS

General Information Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of

in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

Special Precautions for Land Fill Contact a specialist disposal company or the local waste regulator for advice. The product is suitable for disposal

by landfill through an approved agent. Incineration of the product is not recommended, as it is unlikely to

adequately burn.

14. TRANSPORT INFORMATION

ADG Code Non-Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code).

Air

IATA

Proper Shipping Name Chlorinated Trisodium Phosphate

Class No Data Available
Subsidiary Risk(s) No Data Available
UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Land

Australia: ADG Code

Proper Shipping Name Chlorinated Trisodium Phosphate

Class No Data Available
Subsidiary Risk(s) No Data Available
EPG No Data Available
UN Number No Data Available

Hazchem No Data Available No Data Available Pack Group **Special Provision** No Data Available

New Zealand: NZS5433

Proper Shipping Name Chlorinated Trisodium Phosphate

Class No Data Available Subsidiary Risk(s) No Data Available **EPG** No Data Available **UN Number** No Data Available Hazchem No Data Available Pack Group No Data Available **Special Provision** No Data Available

Sea

IMDG Code

Chlorinated Trisodium Phosphate **Proper Shipping Name**

Class No Data Available Subsidiary Risk(s) No Data Available **UN Number** No Data Available No Data Available Hazchem No Data Available **Pack Group Special Provision** No Data Available **EMS** No Data Available

Marine Pollutant No

15. REGULATORY INFORMATION

General Information No Data Available

Poisons Schedule (Aust) 5

AICS Name Sodium hypochlorite phosphate (Na13(CIO)(PO4)4)

16. OTHER INFORMATION

CHTRSO2500, CHTRSO2800, CHTRSO3800, CHTRSO4000, CHTRSO5000, CHTRSO6000, CHTRSO7000, **Related Product Codes**

CHTRSO1800, CHTRSO1801, CHTRSO1802

Revision

Revision Date 22-Feb-2012

Key/Legend < Less Than

> Greater Than

AICS Australian Inventory of Chemical Substances atm Atmosphere CAS Chemical Abstracts Service (Registry Number)

cm² Square Centimetres

CO2 Carbon Dioxide
COD Chemical Oxygen Demand deg C (°C) Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

g Grams

g/cm3 Grams per Cubic Centimetre

g/I Grams per Litre

HSNO Hazardous Substance and New Organism IDLH Immediately Dangerous to Life and Health

immiscible Liquids are insoluable in each other.

inHg Inch of Mercury

inH2O Inch of Water

K Kelvin kg Kilogram

kg/m³ Kilograms per Cubic Metre

Ib Pound

LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours. LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component

mm Millimetre

mmH2O Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit TLV Threshold Limit Value

tne Tonne

torr Millimetre of Mercury

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours

UN United Nations

wt Weight