

#### 1. IDENTIFICATION

**Product Name Chlorinated Trisodium Phosphate** 

Other Names Trisodium phosphate, chlorinated [CAS#11084-85-8]

Uses Cleaning, water softening, disinfecting and deodorising agent for food and beverage applications.

**Chemical Family** No Data Available

**Chemical Formula** [Na3PO4-11H2O] · 1/4 NaOCI

**Chemical Name** Trisodium phosphate, chlorinated, hydrate

**Product Description** Available chlorine: min. 3.3%

## **Contact Details of the Supplier of this Safety Data Sheet**

Organisation Location Telephone Redox Ltd 2 Swettenham Road +61-2-97333000 Minto NSW 2566

Australia

Redox Ltd 11 Mayo Road +64-9-2506222

> Wiri Auckland 2104 New Zealand

3960 Paramount Boulevard Redox Inc. +1-424-675-3200

Suite 107

Lakewood CA 90712

USA

Redox Chemicals Sdn Bhd Level 2, No. 8, Jalan Sapir 33/7 +60-3-5614-2111

Seksyen 33, Shah Alam Premier Industrial Park

40400 Shah Alam Sengalor, Malaysia

### **Emergency Contact Details**

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Poisons Information Centre	Westmead NSW	1800-251525 131126
Chemcall	Australia	1800-127406 +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420

### 2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled +1-703-527-3887



New Zealand

Auckland

London

#### **Globally Harmonised System**

Hazard Classification Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Hazard Categories Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Irritation - Category 2A

Specific Target Organ Toxicity (Single Exposure) - Category 3

**Pictograms** 



Signal Word Warning

Hazard Statements H315 Causes skin irritation.

H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 AUH031 Contact with acids liberates toxic gas

Precautionary Statements Prevention P280 Wear protective gloves/protective clothing/eye protection/face protection.

**P261** Avoid breathing dusts or mists.

P271 Use only outdoors or in a well-ventilated area.

Response P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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

P312 Call a POISON CENTER or doctor if you feel unwell.

**P332 + P313** If skin irritation occurs: Get medical advice.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

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

P362 + P364 Take off contaminated clothing and wash it before reuse.

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

**P405** Store locked up.

Disposal **P501** Dispose of contents/container in accordance with local / regional / national /

international regulations.

#### **National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Storage

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Trisodium phosphate, chlorinated, hydrate	[Na3PO4·11H2O] · 1/4 NaOCI	56802-99-4	100 %

#### 4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then drink plenty of water. Do not induce vomiting. Get medical advice/attention. Never

give anything by mouth to an unconscious person.

Eye IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting

the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Get

medical advice/attention immediately.

Skin IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation

occurs, get medical advice/attention.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Centre or

doctor/physician for advice. Apply resuscitation if victim is not breathing - Administer oxygen if breathing is difficult.

Advice to Doctor Treatment based on judgment of attending physician.

Medical Conditions Aggravated by No information available.

**Exposure** 

### **5. FIRE FIGHTING MEASURES**

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Flammability Conditions Non-combustible material.

**Extinguishing Media** If material is involved in a fire, use fire-extinguishing media appropriate for surrounding materials.

Fire and Explosion Hazard Hazardous fumes such as chlorine may be produced when involved in a fire.

Hazardous Products of Combustion

Fire or heat may produce irritating, toxic and/or corrosive fumes, including Chlorine gas, Carbon monoxide, Carbon

dioxide

Special Fire Fighting Instructions

 $\label{lem:control} \textbf{Contain runoff from fire control or dilution water-Runoff may pollute waterways.}$ 

**Personal Protective Equipment** 

Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may

provide limited protection.

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. ELIMINATE all ignition sources. Do not touch or walk through spilled material. Clear up spills

immediately. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.

Clean Up Procedures Collect material; Shovel into dry containers for disposal (see SECTION 13). Avoid generation and spreading of dust.

Containment Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud.

**Decontamination** Flush area with water.

**Environmental Precautionary** 

Measures

Prevent entry into drains and waterways.

**Evacuation Criteria** Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

Personal Precautionary Measures Use personal protective equipment as required (see SECTION 8).

#### 7. HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

adequate ventilation - Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety practice. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin and

clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8).

Storage Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Protect from humidity

and water. Keep away from extreme heat and sources of ignition - No smoking. Keep away from foodstuffs and

incompatible materials (see SECTION 10). Store locked up.

**Container** Keep in the original container.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No specific exposure standards are available for this product. For dusts from solid substances without specific

occupational exposure standards:

- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m3 (measured as inhalable dust).

- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m3; TWA = 3 mg/m3 (respirable dust).

**Exposure Limits** No Data Available

**Biological Limits** No information available.

Engineering Measures 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.

Personal Protection Equipment - Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Dust

mask/particulate filter respirator. For higher level protection, use type ABEK-P2 respirator cartridges (refer to AS/NZS 1715

& 1716).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses with side-

hields

- Hand protection: Handle with gloves. Recommended: Impervious gloves.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Impervious clothing; The type of protective equipment must be selected according to the concentration and amount of the hazardous

substance(s) at the specific workplace.

Special Hazards Precaustions No info

No information available.

Work Hygienic Practices

Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday. Wash contaminated clothing and other protective equipment before storage or re-use.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid
Appearance Powder

Odour Slight, Chlorine

**Colour** White/off-white or pink

pH 11.4 - 11.7 (1%)

Vapour Pressure No Data Available

Relative Vapour Density No Data Available

Boiling Point No Data Available

Melting Point No Data Available

Freezing Point No Data Available

Solubility Soluble in water

Specific Gravity 0.65 - 0.75

Flash Point

Auto Ignition Temp

No Data Available

Evaporation Rate

No Data Available

Bulk Density

No Data Available

Corrosion Rate

No Data Available

No Data Available

Decomposition Temperature

No Data Available

DensityNo Data AvailableSpecific HeatNo Data AvailableMolecular WeightNo Data AvailableNet Propellant WeightNo Data Available

Net Propellant WeightNo Data AvailableOctanol Water CoefficientNo Data AvailableParticle SizeNo Data AvailablePartition CoefficientNo Data Available

Saturated Vapour ConcentrationNo Data AvailableVapour TemperatureNo Data AvailableViscosityNo Data AvailableVolatile PercentNo Data AvailableVOC VolumeNo Data Available

Additional CharacteristicsNo information available.Potential for Dust ExplosionNo information available.Fast or Intensely BurningNo information available.

Characteristics

Flame Propagation or Burning

No information available.

Rate of Solid Materials
Non-Flammables That Could

No information available.

Contribute Unusual Hazards to a Fire

Properties That May Initiate or Contribute to Fire Intensity

Non-combustible material.

Reactions That Release Gases or

Vapours

vapours

 $Fire \ or \ heat \ may \ produce \ irritating, \ toxic \ and/or \ corrosive \ fumes, \ including \ Chlorine \ gas, \ Carbon \ monoxide, \ monoxid$ 

dioxide.

Release of Invisible Flammable

Vapours and Gases

No information available.

## 10. STABILITY AND REACTIVITY

**General Information** Contact with acids liberates toxic gas. The amount of chlorine slowly diminishes at high temperature; Cool storage

prolongs viability.

**Chemical Stability**Stable under normal conditions. The product may be unstable above 60 °C. **Conditions to Avoid**Avoid generating dust. Avoid excessive heat and sources of ignition.

Materials to Avoid Incompatible/reactive with acids, oxidising agents.

**Hazardous Decomposition** 

**Products** 

Fire or heat may produce irritating, toxic and/or corrosive fumes, including Chlorine gas, Carbon monoxide, Carbon

dioxide.

Hazardous Polymerisation Does not occur.

#### 11. TOXICOLOGICAL INFORMATION

General Information - Acute toxicity: May cause discomfort/gastrointestinal irritation if swallowed. Symptoms may include abdominal pain,

stomach upset, nausea, vomiting and diarrhoea.
- Skin corrosion/irritation: Causes skin irritation.

- Eye damage/irritation: Causes serious eye irritation. Symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea and impaired vision.

- Respiratory/skin sensitisation: No sensitising effects known.

- Germ cell mutagenicity: No information available.

- Carcinogenicity: No information available.

Reproductive toxicity: May cause respiratory irritation.
STOT (single exposure): No information available.
STOT (repeated exposure): No information available.

- Aspiration toxicity: No information available.

Acute

**Ingestion** Acute toxicity (Oral):

- LD50, Rat: >2,000 mg/kg [Supplier's SDS].

Carcinogen Category None

### 12. ECOLOGICAL INFORMATION

Ecotoxicity High concentrations in receiving waters will injure aquatic life by raising pH and by chlorination effect. The

orthophosphate can act as a plant nutrient and precipitate heavy metals.

Persistence/Degradability No information available.

**Mobility** No information available.

**Environmental Fate** Avoid release to the environment.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

### 13. DISPOSAL CONSIDERATIONS

**General Information** Dispose of waste and residues in accordance with local/regional/national authority requirements.

Special Precautions for Land Fill Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection

equipment is used (see SECTION 8).

### 14. TRANSPORT INFORMATION

## Land Transport (Australia)

ADG Code

**Proper Shipping Name** Chlorinated Trisodium Phosphate

Class No Data Available
Subsidiary Risk(s) No Data Available

No Data Available

**UN Number** No Data Available

HazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for LAND transport.

### Land Transport (Malaysia)

ADR Code

Proper Shipping Name Chlorinated Trisodium Phosphate

Class No Data Available
Subsidiary Risk(s) No Data Available
No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

### Land Transport (New Zealand)

NZS5433

**UN Number** 

Proper Shipping Name Chlorinated Trisodium Phosphate

Class No Data Available
Subsidiary Risk(s) No Data Available
No Data Available

No Data Available

HazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for LAND transport.

## **Land Transport (United States of America)**

US DOT

**Proper Shipping Name** Chlorinated Trisodium Phosphate

Class No Data Available
Subsidiary Risk(s) No Data Available
No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

### **Sea Transport**

**IMDG** Code

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 GroupNo Data AvailableSpecial ProvisionNo Data AvailableEMSNo Data Available

Marine Pollutant No

Comments NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport IATA DGR

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

Comments NON-DANGEROUS GOODS: Not regulated for AIR transport.

## **National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**Dangerous Goods Classification**NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

### 15. REGULATORY INFORMATION

**General Information** CHLORINATING COMPOUNDS (other preparations containing 4 % or less of available chlorine).

Poisons Schedule (Aust) Not Scheduled

#### **Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Cleaning Products Subsidiary Hazard Group Standard 2020 HSR002530

#### **National/Regional Inventories**

Australia (AIIC) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

**Europe (EINECS)** Not Determined

**Europe (REACh)** Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Not Determined

### **16. OTHER INFORMATION**

Related Product Codes CHTRSO1000, CHTRSO1001, CHTRSO1002, CHTRSO1003, CHTRSO1004, CHTRSO1005, CHTRSO1006, CHTRSO1007,

CHTRSO1008, CHTRSO1009, CHTRSO2000, CHTRSO2001, CHTRSO2002, CHTRSO2003, CHTRSO2004, CHTRSO3000,

CHTRSO3001, CHTRSO3002, CHTRSO3003

Revision 4

Revision Date19 Aug 2019Reason for IssueUpdate SDSKey/Legend< Less Than</th>

> Greater Than

**AICS** Australian Inventory of Chemical Substances

atm Atmosphere

**CAS** Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 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

 $\mathbf{g} \; \mathsf{Grams}$ 

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 present.

mm Millimetre

mmH20 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

**TWA** Time Weighted Average

ug/24H Micrograms per 24 Hours

**UN** United Nations

wt Weight