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Product Code

Infosafe No™ 1CHKZ Issue Date :October 2021 RE-ISSUED by CHEMSUPP

Product Name SODIUM PERIODATE

Classified as hazardous

#### 1. Identification

**GHS Product** 

SODIUM PERIODATE

**Identifier** 

CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211) **Company Name** 

Address

38 - 50 Bedford Street GILLMAN

Telephone/Fax

SA 5013 Australia Tel: (08) 8440-2000

Number

**Emergency phone** 

number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

E-mail Address

www.chemsupply.com.au

the chemical and restrictions on use

Recommended use of Oxidising agent, oxidizing manganese compounds to permanganate: used for this purpose in analytical chemistry, also used for oxidation of some organic compounds; tissue processing fixation; periodate-methylamine degradation of ribonucleotides; in screenprinting, as emulsion remover; source of periodic

acid; analytical reagent; and laboratory reagent.

Other Names

SODIUM PERIODATE AR SA234

Sodium iodate(VII) Sodium metaperiodate Sodium tetraoxoiodate(VII)

**Other Information** 

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

### 2. Hazard Identification

GHS classification of Hazardous to the Aquatic Environment - Acute Hazard: Category 1

the

Acute Toxicity - Oral: Category 4

substance/mixture

Eye Damage/Irritation: Category 1 Oxidizing Solids: Category 1

Specific Traget Organ Toxicity - Repeated Exposure Category 1 (thymus gland)

Skin Corrosion/Irritation: Category 1A

Signal Word (s) DANGER

**Hazard Statement (s)** 

H271 May cause fire or explosion; strong oxidiser.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

Flame over circle, Health hazard, Corrosion, Environment Pictogram (s)









**Precautionary** statement -Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P220 Keep/Store away from clothing/.../combustible materials. P221 Take any precaution to avoid mixing with combustibles.





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P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

P283 Wear fire/flame resistant/retardant clothing.

**Precautionary** 

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

statement - Response P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower.

P363 Wash contaminated clothing before reuse.

P306+P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin

with plenty of water before removing clothes.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338  $\overline{\text{IF}}$  IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P371+P380+P375 In case of major fire and large quantities: Evacuate area.

Fight fire remotely due to the risk of explosion.

P370+P378 In case of fire: Use flooding quantities of water for extinction.

P405 Store locked up.

**Precautionary** statement - Storage

Precautionary

P501 Dispose of contents/container to an approved waste disposal plant.

statement - Disposal

#### 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Sodium periodate	7790-28-5	100 %

#### 4. First-aid measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately. Ap		
	artificial respiration if not breathing. If breathing is difficult, give		
	oxygen. Immediately obtain medical aid if cough or other symptoms appear.		
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.		

Skin Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical

attention.

Immediately irrigate with copious quantity of water for at least 15 minutes. Eye contact

Eyelids to be held open. Seek medical attention.

Maintain eyewash fountain and safety shower in work area. First Aid Facilities

**Advice to Doctor** Treat symptomatically based on judgement of doctor and individual reactions of

the patient.

For advice, contact a Poisons Information Centre (Phone eq Australia 13 1126; Other Information

New Zealand 0800 764 766) or a doctor.

### 5. Fire-fighting measures

Hazards from Combustion **Products** 

Toxic fumes of sodium oxides and iodine oxides, hydrogen iodide, iodine fumes, oxygen, possibly also free, or ionic iodide.

**Specific Methods** 

Small fire: USE FLOODING QUANTITIES OF WATER. Do not use dry chemicals, CO2 or foam. If safe to do so, move undamaged containers from fire area. Do not move

cargo if cargo has been exposed to heat.

Large fire: Flood fire area with water from a protected position. Cool containers with flooding quantities of water until well after fire is out - If impossible, withdraw from area and let fire burn. Avoid getting water inside containers: a violent reaction may occur. Dam fire control water for later disposal.





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Specific hazards arising from the chemical

Will accelerate burning when involved in a fire. May explode from heating, shock, friction or contamination. Some will react explosively with hydrocarbons (fuels). May ignite combustibles (wood, paper, clothing, etc).

Fire may produce irritating, poisonous, and/or corrosive gases. Containers may explode when heated. Runoff may create fire or explosion hazard.

Hazchem Code 1W

**Decomposition Temp.** 300 °C

Precautions in connection with Fire

Wear SCBA and chemical splash suit. Structural firefighter's uniform will

provide limited protection.

#### 6. Accidental release measures

Spills & Disposal

Do not contaminate. Keep combustibles (wood, paper, clothing, oil, etc.) away from spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use water spray to knock down vapours or divert vapour clouds. Prevent entry into waterways, drains or confined areas. Prevent exposure to heat.

Dry Spill

Use clean non-sparking tools to transfer material to a clean, dry plastic

container and cover loosely. Move container from spill area.

Small Liquid Spill

Use a non-combustible material like vermiculite, sand or earth to soak up the

product and place in a loosely-covered container for later disposal.

Large Liquid Spill

SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

**Personal Precautions** 

Evacuate the area of all non-essential personnel. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Personal Protection We

Wear protective clothing specified for normal operations (see Section 8)

#### 7. Handling and storage

Precautions for Safe Handling

Avoid ingestion and inhalation of vapours and dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Minimize dust generation and accumulation. Ensure good ventilation at the workplace. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Protect against physical damage and moisture. Keep container dry. Keep away from heat and all sources of ignition. Separate from incompatibles, combustibles, flammable substances, reducing agents, organic or other readily oxidizable materials. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Conditions for safe storage, including any incompatibilities Store in a tightly closed container, in a cool, dry, well-ventilated area away from incompatible substances. Light sensitive. Hygroscopic. Protect against physical damage, direct sunlight and moisture. Isolate from any source of heat, sparks, open flame and ignition. Avoid storage on wood floors. Separate from incompatibles, combustibles, organic or other readily oxidizable materials, flammable substances and reducing agents. Oxidising materials should be stored in a separate safety storage cabinet or room. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product. Refer Australian Standard AS 4326-1995 'The storage and handling of oxidizing

**Storage Regulations** 

agents'.
Store at room temperature (15 to 25 °C recommended).

Temperatures

Storage

### 8. Exposure controls/personal protection

# Other Exposure Information

No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m3. All atmospheric contamination should be kept to as low a level as is workable. These Workplace Exposure Standards are guides to be





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used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative

toxicity.

**Appropriate** engineering controls Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

Respiratory **Protection** 

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

**Eye Protection** 

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and

be selected and used in accordance with AS 1336.

**Hand Protection** 

Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This

can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous

**Personal Protective Equipment** 

Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

**Body Protection** 

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

**Hygiene Measures** 

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or

re-using.

### 9. Physical and chemical properties

**Form** 

White, colourless to light yellow crystalline powder or granules. **Appearance** 

Odourless Odour 300 °C **Decomposition** 

**Temperature** 

300 °C (decomposes). **Melting Point** 

Soluble (107 g/l water @ 20  $^{\circ}$ C). Solubility in Water

3.86 at 16 °C **Specific Gravity** 

pH 3.5-5.5 (107g/1 H2O @ 25 °C) pН

**Volatile Component** 0 %vol @ 21 °C

Not combustible but assists combustion of other substances. **Flammability** 

May explode when exposed to mechanical shock or friction or can cause **Explosion Properties** 

explosions with combustible materials. May decompose explosively when heated.

Forms explosive mixtures with reducing agents, finely powdered metals,

magnesium.

213.89 Molecular Weight

Strong oxidiser. May ignite combustible material, liberating oxygen. **Oxidising Properties** 





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Soluble in nitric, sulfuric and acetic acids. Other Information

10. Stability and reactivity

**Chemical Stability** Stable under ordinary conditions of use and storage.

Hygroscopic

Heat, flame, ignition sources, shock, friction, incompatibles, moisture, **Conditions to Avoid** 

light, dust generation.

Some organic compounds or reducing agents, finely-divided metal, such as **Incompatible** aluminium or magnesium, hydrides, ammonium perchlorate, ammonium compounds, Materials

combustible substances, easily oxidized materials, flammable substances.

Toxic fumes of sodium oxides and iodine oxides, hydrogen iodide, iodine fumes, Hazardous oxygen, possibly also free, or ionic iodide. Decomposition

**Products** Possibility of

Forms explosive mixtures with reducing agents and finely powdered metals, such

as aluminium or magnesium.

hazardous reactions Substance may react violently with some organic compounds, hydrides and

> ammonium perchlorate. Reacts with flammable substances.

Will not occur.

Hazardous **Polymerization** 

11. Toxicological Information

Harmful if swallowed. Corrosive if swallowed. Causes burns of mucous membranes Ingestion

in the mouth, pharynx, oesophagus and gastrointestinal tract. May cause gastrointestinal upset with symptoms of abdominal pain, vomiting, and

diarrhoea.

May cause irritation to mucous membranes and respiratory tract, with symptoms of burning, sneezing, coughing and possible shortness of breath. Over-exposure Inhalation

by inhalation may cause respiratory irritation. Severe over-exposure can

produce lung damage, choking, unconsciousness or death.

Causes burns, irritation or reddening of moist skin on prolonged contact. Can Skin

produce inflammation, characterized by itching, scaling, reddening, or,

occasionally, blistering.

Causes severe eye burns, irritation, redness and pain. Can cause inflammation, Eye

characterized by redness, watering, and itching. Eye contact can result in

corneal damage or blindness.

Respiratory sensitisation Not classified based on available information.

**Skin Sensitisation** 

Not classified based on available information.

Germ cell mutagenicity Not classified based on available information.

Carcinogenicity

Not listed in the IARC Monographs.

Not classified based on available information. Not classified based on available information.

Reproductive **Toxicity** STOT-single

Not classified based on available information.

exposure STOT-repeated exposure

**Chronic Effects** 

Specific Traget Organ Toxicity - Repeated Exposure Category 1 (thymus gland) H372 Causes damage to organs through prolonged or repeated exposure.

Repeated ingestions may cause kidney dysfunction or failure and blood

conditions such as haemolysis. Central nervous system may be affected. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated or prolonged inhalation of

dust may lead to chronic respiratory irritation.

Serious eye

Eye Damage/Irritation: Category 1 H314 Causes severe skin burns and eye damage. damage/irritation





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Skin Skin Corrosion/Irritation: Category 1A H314 Causes severe skin burns and eye damage. corrosion/irritation

12. Ecological information

Hazardous to the Aquatic Environment - Acute Hazard: Category 1 **Ecological** 

H400 Very toxic to aquatic life. Information

Methods for the determination of biodegradability are not applicable to Persistence and

inorganic substances. degradability

**Environmental** Do not allow to enter waters, waste water, or soil!

**Protection** 

13. Disposal considerations

Disposal Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations. Considerations

14. Transport information

Dangerous Goods of Class 5.1 Oxidising Agents are incompatible in a placard **Transport** Information

load with any of the following: - Class 1, Class 2.1, Class 2.3, Class 3, Class 4, Class 5.2, Class 7, Class 8, Fire risk substances and combustible

liquids.

3085 U.N. Number

OXIDIZING SOLID, CORROSIVE, N.O.S. - (Sodium periodate) **UN** proper shipping

5.1 **Transport hazard** 

class(es)

8 Sub.Risk

1W **Hazchem Code** 

**Packing Group** Ι **EPG Number** 5C2

IERG Number 31

15. Regulatory information

All the constituents of this product are listed on the Australian Inventory of Regulatory Chemical Substances ( AICS ), or exempted. Not listed under WHS Regulation Information

2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and

restricted hazardous chemicals.

**Poisons Schedule** Not Scheduled

16. Other Information

'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth Literature References

National Road Transport Commission, 'Australian Code for the Transport of

Dangerous Goods by Road and Rail 7th. Ed.'.

Safe Work Australia, 'National Code of Practice for the Preparation of Safety

Data Sheets for Hazardous Chemicals'

Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency

Response Guide', Standards Australia/Standards New Zealand.

Safe Work Australia, 'Hazardous Chemical Information System'

Safe Work Australia, 'National Code of Practice for the Labelling of Safe

Work Hazardous Substances'.

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants

in the Occupational Environment'.

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:

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representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we





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