

Page: 1 of 6

Infosafe No™ 1CHBQ

Issue Date : February 2022 RE-ISSUED by CHEMSUPP

Product Name **POTASSIUM PERIODATE** 

Classified as hazardous

Section 1 Identif	"aation	
Section 1 - Identif		
<b>Product Identifier</b>	POTASSIUM PERIODATE	
Company Name	CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 00	8 264 211)
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
Telephone/Fax Number	Tel: (08) 8440-2000	
Emergency Phone Number	CHEMCALL 1800 127 406 (Australia) / +6	4-4-917-9888 (International)
E-mail Address	www.chemsupply.com.au	
Recommended use of the chemical and restrictions on use	Oxidising manganese compounds to perman solution, oxidation of some organic com	ganate, powerful oxidiser in acid pounds and laboratory reagent.
Other Names	Name	Product Code
Other Information	Potassium iodate (VII), Potassium metaperiodate, Potassium metaperiodate, Potassium tetroxoiodate POTASSIUM PERIODATE AR	PA132
	ChemSupply Australia Pty Ltd does not w for any use or purpose. The user must a before use or application intended purp before use or application is recommende upon ChemSupply Australia Pty Ltd with advice in relation to the suitability o disclaimed. Except to the extent prohib any statute as to the merchantable qual purpose is hereby excluded. This produce provisions of Part V, Division 2 of the liability of ChemSupply Australia Pty L supply of equivalent goods or payment o acquiring equivalent goods.	arrant that this product is suitable scertain the suitability of the product ose. Preliminary testing of the product d. Any reliance or purported reliance respect to any skill or judgement or f this product of any purpose is ited at law, any condition implied by ity of this product or fitness for any t is not sold by description. Where the Trade Practices Act apply, the td is limited to the replacement of f the cost of replacing the goods or

## Section 2 - Hazard(s) Identification

GHS Classification of the Substance/Mixture	Oxidizing Solids: Category 2 Skin Corrosion/Irritation: Category 1 Specific target organ toxicity - Single Exposure Category 3 (respiratory tract irritation) Acute Toxicity - Oral - Category 4
Signal Word	DANGER
Hazard Statement (s)	H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H371 May cause damage to organs.
Pictogram (s)	Flame over circle,Corrosion, Health Hazard , Exclamation mark
Precautionary	P210 Keep away from heat/sparks/open flames/hot surfaces No smoking.
Statement –	P220 Keep/Store away from clothing//combustible materials.
Prevention	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face



#### Page: 2 of 6

Infosafe No™	1CHBQ	Issue Date	:February	2022	RE-ISSUED by	/ CHEMSUPP
Product Name	POTASSIUM P	ERIODATE				
		Classifie	ed as hazard	lous		
Precautionary Statement – Response	protection. P302+P352 IF P332+P313 If P362 Take off P304+P340 IF position comf P312 Call a F P305+P351+P33 Remove contact P337+P313 If P370+P378 In	ON SKIN: Wash w skin irritation contaminated of INHALED: Remove fortable for bre COISON CENTER or 8 IF IN EYES: F t lenses, if pr eye irritation case of fire: U	with plenty on occurs: Get clothing and e victim to f eathing. c doctor/phys Rinse cautiou cesent and ea persists: Ge Jse flooding	f soap and medical a wash befor resh air a ician if y sly with w sy to do. t medical quantities	water. dvice/attention. e reuse. nd keep at rest ou feel unwell. ater for several Continue rinsing advice/attentior of water for ex	in a minutes. g. a. stinction.
Precautionary Statement – Storage	P403+P233 Sto P405 Store lo	ore in a well-ve ocked up.	entilated pla	ce. Keep c	ontainer tightly	closed.

PrecautionaryP501 Dispose of contents/container to an approved waste disposal plant.Statement - Disposal

## Section 3 - Composition and Information on Ingredients

Ingredients	Name	CAS	Proportion	
	Potassium periodate	7790-21-8	100 %	
Section 4 - First A	Aid Measures			

Inhalation	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If rapid recovery does not occur, obtain medical attention
Eye	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain medical attention
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

## **Section 5 - Firefighting Measures**

Hazards from Combustion Products	May evolve toxic fumes of hydrogen iodide (HI), potassium iodate, oxides of potassium, iodide ions (I-) and oxygen.
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.
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	1Y
Decomposition Temperature	> 582 °C; boiling point.



Page: 3 of 6

Infosafe No™	1CHBQ Issue Date : February 2022 RE-ISSUED by CHEMSUPP		
Product Name	POTASSIUM PERIODATE		
	Classified as hazardous		
Precautions in connection with Fire	Wear SCBA and chemical splash suit. Structural firefighter's uniform will provide limited protection.		
Section 6 - Accide	ntal 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		
Personal Precautions	Avoid raising a dust cloud. Do not breathe dust, fumes, vapour, gas. Ventilate contaminated area thoroughly. Evacuate all personnel		
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)		
Section 7 - Handli	ng and Storage		
Precautions for Safe Handling	Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. If you feel unwell, seek medical attention and show the label when possible. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Ensure good ventilation at the workplace. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from incompatibles such as reducing agents, combustible, organic and flammable materials. Keep away from heat and all sources of ignition. No smoking. Take		

	precautionary measures against electrostatic discharges. Minimize dust generation and accumulation. Containers of this material may be hazardous when empty since they contain product residue.
<b>Conditions for safe</b>	Store in tightly closed containers, in a cool, dry, well-ventilated area away
storage, including	from incompatible substances. Store away from flammable and combustible
any incompatibilities	materials. Keep away from reducing agents. Keep away from sources of heat or ignition. Heat can cause thermal decomposition and pressure build-up inside containers. Keep well closed and protected from direct sunlight and moisture. Hygroscopic. Avoid storage on wood floors. Oxidizing materials should be stored in a separate safety storage cabinet or room. Containers of this material may be hazardous when empty since they contain product residue.
Storage Regulations	Refer Australian Standard AS 4326-1995 'The storage and handling of oxidizing agents'.
Storage	Store at room temperature (15 to 25 $^\circ$ C recommended).
Temperatures	
Unsuitable Materials	Organic materials.

## Section 8 - Exposure Controls and Personal Protection

Other Exposure Information	A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for this product. There is a blanket limit of 10 mg/m <sup>3</sup> for dusts when limits have not otherwise been established.
Engineering Controls	In industrial situations 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. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is



#### Page: 4 of 6

Infosafe No™ 1CHBQ	Issue Date :February 202	22 RE-ISSUED by CHEMSUPP
Product Name <b>POTASSIUM</b>	PERIODATE	
	Classified as hazardous	
required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.		

	serection, fit testing, training, maintenance and inspection.
Eye and Face	The use of a face shield, chemical goggles or safety glasses with side shield
Protection	protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
Hand Protection	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Butyl rubber gloves Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.
Personal Protective Equipment	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
Body Protection	Flame retardant antistatic protective clothing. Clean clothing or protective clothing should be worn, preferably with an apron. 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.

## Section 9 - Physical and Chemical Properties

Form	Solid
Appearance	Colourless crystals or white fine crystalline powder.
Odour	Pungent
Melting Point	582 °C
<b>Boiling Point</b>	Decomposes.
Decomposition Temperature	> 582 °C; boiling point.
Solubility in Water	Slightly soluble (2.3 g/l water @ 20 °C) (one of the less soluble of potassium salts, owing to a large anion).
Specific Gravity	3.62 g/cm <sup>3</sup> at 20 C
pН	Slightly alkaline aqueous solution (4.5 - 5.5).
Vapour Pressure	Negligible.
Relative Vapour Density (Air=1)	7.9
<b>Evaporation Rate</b>	Negligible.
Volatile Component	0 %vol @ 21 °C.
Flammability	Not combustible but assists combustion of other substances.
Explosion Properties	May explode when shocked, or if exposed to heat, open flames, friction, reducing materials, or combustible materials. Also may act as initiation source for dust or vapour explosions.
Molecular Weight	230.00
<b>Oxidising Properties</b>	Strong oxidizing agent, can release gaseous oxygen when heated.
Solubility in other solvents (kg/m3)	Sparingly soluble in aqueous KOH.

#### Section 10 - Stability and Reactivity

Chemical Stability	Stable under ordinary conditions of use and storage.
Possibility of Hazardous Reactions	Highly reactive with reducing agents, combustible materials, organic materials, flammable substances.
Conditions to Avoid	Heat, high temperatures, flames, ignition sources, incompatible materials, combustible materials, organic materials, water, air, light and dust generation.



## Page: 5 of 6

Infosafe No™	1CHBQ Issue Date : February 2022 RE-ISSUED by CHEMSUPP	
Product Name	POTASSIUM PERIODATE	
	Classified as hazardous	
Incompatible Materials	Some organic compounds or reducing agents; finely powdered metals, such as aluminium or magnesium metal; hydrides; reducing agents; ammonium perchlorate; amines; combustible materials; manganese(IV) oxide + heat; flammable substances and sulphuric acid.	
Hazardous Decomposition Products	Toxic fumes of hydrogen iodide (HI), potassium iodate, oxides of potassium, iodide ions (I-) and oxygen.	
Hazardous Polymerization	Will not occur.	
Section 11 - Toxicological Information		
Ingestion	May be harmful if swallowed. May cause irritation of the digestive tract. May cause gastrointestinal upset with symptoms of abdominal pain, vomiting, and	
	diarrhoea. Animal experiments suggest a potential for kidney and blood cell damage, similar to that of the bromates and chlorates.	
Inhalation	May be harmful if inhaled. Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.	
Skin	May be harmful if absorbed through the skin. Causes irritation to skin. Symptoms include redness, itching, and pain.	
Eye	Causes serious eye irritation, redness, and pain. Crystals may be abrasive.	
Skin Sensitisation	Sensitization with allergic manifestations in predisposed persons.	
Carcinogenicity	Not listed in the IARC Monographs.	
Chronic Effects	Repeated ingestions may cause kidney dysfunction or failure and blood conditions such as hemolysis. Central nervous system may be affected. Effects may be delayed.	
Section 12 - Ecolo	gical Information	
Ecological Information	No ecological problems are to be expected when the product is handled and used with due care and attention.	
Ecotoxicity	Quantitative data on the ecological effect of this product are not available.	
Persistence and Degradability	Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
Environmental Protection	Do not allow to enter waters, waste water, or soil!	
Section 13 - Dispo	sal Considerations	
Disposal Considerations	Dispose of according to relevant local, state and federal government regulations.	
Section 14 - Trans	port Information	
Transport Information	Dangerous Goods of Class 5.1 Oxidising Agents are incompatible in a placard 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.	
ADG UN Number	1479	
ADG Proper Shipping Name	OXIDIZING SOLID, N.O.S (Potassium periodate)	
ADG Transport Hazard Class	5.1	
ADG Packing Group	II	
Hazchem Code	1Y	
EPG Number	5B1	
IERG Number	31	

Section 15 - Regulatory Information



Page: 6 of 6

Infosafe No™ 1CHBQ Issue Date : February 2022 RE-ISSUED by CHEMSUPP

#### Product Name **POTASSIUM PERIODATE**

Classified as hazardous

Poisons Schedule Not Scheduled

Section 16 - Any Other Relevant Information		
Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. 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	
Contact Person/Point	in the Occupational Environment'. Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: All information provided in this data sheet or by our technical 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 make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.	
Empirical Formula & Structural Formula	Empirical Formula: KIO4. Structural Formula: K-O-IO3	
	End UI MSDS	

© Copyright Chemical Safety International Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Chemical Safety International Pty Ltd.