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Product Code

MA074

Infosafe No™ 3CHC1 RE-ISSUED by CHEMSUPP Issue Date : June 2021

Product Name MERCURIC IODIDE Red

Classified as hazardous

### 1. Identification

**GHS Product** 

MERCURIC IODIDE Red

**Identifier** 

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

38 - 50 Bedford Street GILLMAN Address

SA 5013 Australia Tel: (08) 8440-2000

Telephone/Fax

Number

**Emergency phone** 

number

E-mail Address

www.chemsupply.com.au

Recommended use of the chemical and restrictions on use

Analytical chemistry (Nessler's reagent, Mayer's reagent) topical antiseptic

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

and laboratory reagent.

Other Names Name

> Mercury (II) iodide MERCURIC IODIDE Red AR

**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

Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1

substance/mixture

Acute Toxicity - Dermal: Category 1 Acute Toxicity - Inhalation: Category 2 Acute Toxicity - Oral: Category 2

Specific target organ toxicity - Repeated Exposure Category 2 (Kidney)

Signal Word (s) DANGER

**Hazard Statement (s)** 

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H330 Fatal if inhaled.

H373 May cause damage to organs (kidney) through prolonged or repeated

H410 Very toxic to aquatic life with long lasting effects.

Skull and crossbones, Health hazard, Environment Pictogram (s)







**Precautionary** statement -**Prevention** 

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

P262 Do not get in eyes, on skin, or on clothing.

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.





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

protection.

Precautionary

statement - Response P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Gently wash with plenty of soap and water.

P310 Immediately call a POISON CENTER or doctor/physician. P362 Take off contaminated clothing and wash before reuse.

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.

P314 Get medical advice/attention if you feel unwell.

P391 Collect spillage.

Precautionary statement – Storage

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

P405 Store locked up.

Precautionary statement – Disposal P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Mercuric Iodide red	7774-29-0	100 %

### 4. First-aid measures

Eve contact

Inhalation

If inhaled, remove from contaminated area to fresh air immediately, avoid becoming a casualty. Make patient comfortable, keep warm and at rest until fully recovered. If breathing is difficult (or develops a bluish skin discolouration), supply oxygen by a qualified person. Apply artificial respiration with a respiratory medical device if not breathing. Do not use mouth to mouth resuscitation. Immediately medical attention is required.

Ingestion

Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDICE VOMITING. Seek immediate medical

product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical attention.

attention.

Skin Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical attention.

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

Eyelids to be held open. Seek immediate medical assistance.

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.

### 5. Fire-fighting measures

Specific Methods Small fire: Use dry chemical, CO2 or water spray.

If safe to do so, move undamaged containers from fire area. Large fire: Use water spray, fog or foam - Do not use water jets.

Cool containers with flooding quantities of water until well after fire is

out. Avoid getting water inside containers.

Specific hazards arising from the chemical

Material does not burn. Fire or heat will produce irritating, poisonous and/or corrosive gases. Runoff may pollute waterways.

Hazchem Code 2X

Precautions in Wear SCBA and chemical splash suit. Fully-encapsulating, gas-tight suits connection with Fire should be worn for maximum protection. Structural firefighter's uniform is NOT

effective for these materials.

### 6. Accidental release measures





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Spills & Disposal Do not touch or walk through spilled material. Do not touch damaged containers

or spilled material unless wearing appropriate protective clothing. Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Cover with plastic sheet to prevent spreading. Absorb with earth, sand or other non-combustible material and transfer to container. DO NOT GET WATER

INSIDE CONTAINERS. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

enclosed rooms.

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

Clean-up Methods -Small Spillages Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance

with local regulations.

### 7. Handling and storage

Precautions for Safe Handling Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Contaminated clothing should be removed and washed before reuse. Wash hands and face thoroughly after working with material. When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities Corrosiveness Store in well ventilated area. Store away from foodstuffs. Keep containers securely sealed and protected against physical damage. Keep container tightly closed in a dry, well-ventilated place away from direct sunlight.

Attacks many metals, such as copper, silver, brass, bronze and nickel-copper, zinc, lead.

Storage Regulations Refer Australian Standard AS/NZS 4452:1997 'The storage and handling of toxic

substances'.

Unsuitable Materials Aluminium foil is unsuitable as a packing material in contact with mercury

(II) salts in the presence of moisture, when vigorous amalgamation ensures.

### 8. Exposure controls/personal protection

Occupational exposure limit values	Name		STEL		TWA	
,		mg/m3	ppm	mg/m3	ppm	Footnote
	Mercuric Iodide red			0.025	0.003	Mercury, inorganic divalent compounds (as Hg)
Other E	Those Weekenlage Error	2	200 0111	dog to be	and in th	

## Other Exposure Information

These Workplace Exposure Standards are guides to be 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.

A time weighted average (TWA) has been established for Mercury, alkyl compounds (as Hg) (Safe Work Australia) of 0.01 mg/m³. The corresponding STEL level is 0.03 mg/m³. A time weighted average (TWA) has been established for Mercury elemental vapour (as Hg) (Safe Work Australia) of 0.025 mg/m³, (0.003 ppm). The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. Note: Absorption through skin may be a significant route of exposure.

# 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





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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 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

waste.

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.

Footwear Safety boots in industrial situations is advisory, foot protection should

comply with AS 2210, Occupational protective footwear - Guide to selection,

care and use.

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. Wash hands thoroughly after handling this material. Remove

metallic jewellery. Avoid using metallic tools.

9. Physical and chemical properties

Form Solid

Appearance Red crystals or powder, turn yellow when heated to 130°C, returning to red on

cooling.

Odour Odourless.

Melting Point 259 °C.

Boiling Point 349°C

Solubility in Water Almost completely insolubility (6mg/100g of water at 25°C).

Solubility in Organic

Solvents

Readily soluble in alkali iodides. Soluble in boiling alcohol and in solutions of sodium thiosulfate and potassium iodide or other hot alkali chloride solutions. Partially soluble in acetone anf castor oil. Very soluble in

alcohol, diethyl ether, olive oil and ethyl acetate. Practically insoluble in

chloroform and carbon dissulfide.

Specific Gravity 6.28

Vapour Pressure 100 mm Hg @ 261.8°C.

**Vapour Density** 

(Air=1)

16.0

**Volatile Component** 08

Flammability Non combustible material.

Molecular Weight 454.40

10. Stability and reactivity

Chemical Stability Stable under ordinary conditions of use and storage. Light sensitive.

Conditions to Avoid Light, heat, incompatibles.





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Strong oxidising agents, acetylene aluminium foil, ammonia, chlorine dioxide, Incompatible

azides, calcium, sodium carbide, alkali metals, interhalgons, copper, Materials

cyanides, fluorine, hydrogen peroxide, iodoform.

Hazardous **Decomposition**  Oxides of mercury, mercury vapour and hydrogen iodide.

**Products** Possibility of hazardous reactions

Reactive with alkalis. Chlorine trifuorine causes reaction with flame. Strong

explosion on contact with sodium and potassium.

Hazardous

Will not occur.

**Polymerization** 

### 11. Toxicological Information

Acute Toxicity - Oral LD50 (rat): 18 mg/kg. **Acute Toxicity -**LD50 (rat): 75 mg/kg.

**Dermal** Ingestion

HFatal if swallowed. Average lethal dose for inorganic mercury salts is about 1 gram. May cause burning of the mouth and pharynx, abdominal pain, vomiting, corrosive ulceration, bloody diarrhoea. May be followed by a rapid and weak pulse, shallow breathing, paleness, exhaustion, central nervous system problems, tremors and collapse. Delayed death may occur from renal failure.

Symptoms may be parallel to inhalation.

Fatal if inhaled. Inhalation of the material causes irritation to the Inhalation

respiratory tract by damaging the mucous membranes, experiencing symptoms such as nausea, headache, shortness of breath, coughing, metallic taste, vomiting, abdominal pain. Bloody diarrhoea, intestinal burns, glottal oedema (swelling of fluid in the soft tissues of the larynx), aspiration pneumonia as well as a

drop in blood pressure, cardiac dysrhythmia (irregular heart beat),

circulatory collapse and renal failure.

Fatal in contact with skin. Symptoms include redness and pain. May cause Skin

burns. Risk of skin sensitization. Can be absorbed through the skin with

symptoms to parallel ingestion.

Causes severe eye irritation. May cause eye burns. May cause eye injury. Eye

Contact with eyes causes severe lesions.

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 Mercury [7439-97-6] and inorganic mercury compounds is evaluated in the IARC Monographs (Vol. 58;1993) as Group 3: Not classifiable as to carcinogenicity to humans.

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

Reproductive **Toxicity** 

STOT-single exposure

exposure

Not classified based on available information.

STOT-repeated

Specific target organ toxicity - Repeated Exposure Category 2 (Kidney) H373 May cause damage to organs (kidney) through prolonged or repeated

exposure.

Chronic exposure through any route can produce central nervous system damage. Chronic Effects

May cause muscle tremors, personality and behavior changes, CNS effects

(impaired speech, vision, hearing, and sensitivity, loss of memory, irritability, hallucinations, delirium inter alia), metallic taste, loosening of the teeth, digestive disorders, skin rashes, brain damage and kidney damage. Can cause skin allergies and accumulate in the body. Repeated skin

contact can cause the skin to turn gray in colour.

Not classified based on available information. Mutagenicity

### 12. Ecological information





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May cause long-term adverse effects in Highly toxic for aquatic organisms. **Ecotoxicity** 

the aquatic environment.

The toxicity of mercury (II) ions for water organisms depends on the water

hardness.

**Bioaccumulative** 

This substance is expected to significantly bioaccumulate.

**Environmental** 

**Potential** 

**Protection** 

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

Acute Toxicity -

Daphnia

Daphnia magna EC50: 0.0052 mg/l/48hr (Hg (II)ions)

13. Disposal considerations

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

14. Transport information

**Transport** Dangerous Goods of Class 6 (Toxic and Infectious Substances) are incompatible in a placard load with any of the following: -Class 1, Class 3, if the Class 3 Information

dangerous goods are nitromethane, Class 8, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids; and are incompatible with

food and food packaging in any quantity.

1638 U.N. Number

**UN proper shipping** 

MERCURY IODIDE

name

**Transport hazard** 

class(es)

6.1 2X

**Hazchem Code** ΙI **Packing Group** 6A5 **EPG Number** 

**IERG Number** 

**Environmental** Hazards

Highly toxic to aquatic organisms. May cause long term adverse effects in the

aquatic environment.

15. Regulatory information

Regulatory Information All the constituents of this product are listed on the Australian Inventory of

Chemical Substances ( AICS ), or exempted. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and

restricted hazardous chemicals.

**Poisons Schedule** 

16. Other Information

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

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





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**Empirical Formula** & Structural Formula

HgI2

...End Of MSDS...

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