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Infosafe No™ 1CHBS

Issue Date : May 2021

RE-ISSUED by CHEMSUPP

## Product Name **LEAD IODIDE**

Classified as hazardous

1. Identification		
GHS Product Identifier	LEAD IODIDE	
Company Name	CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)	
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
Telephone/Fax Number	Tel: (08) 8440-2000	
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	
E-mail Address	www.chemsupply.com.au	
Recommended use of the chemical and restrictions on use	Bronzing, printing, photography, thermoelectric materials, cloud seeding, gold pencils, mosaic gold and laboratory reagent.	
Other Names	Name Product Code	
	LEAD IODIDE LR LL011 Lead (II) Iodide	
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

the substance/mixture	Acute toxicity - Oral: Category 4 Acute toxicity - Inhalation: Category 4 Carcinogenicity: Category 2 Germ cell mutagenicity: Category 2 Specific target organ toxicity (repeated exposure: Category 1 Reproductive toxicity: Category 1A Short-term (acute) aquatic hazard: Category 1 Long-term (chronic) aquatic hazard: Category 1 DANGER
Signal Word (s)	DANGER
Hazard Statement (s)	<ul><li>H302 Harmful if swallowed.</li><li>H332 Harmful if inhaled.</li><li>H341 Suspected of causing genetic defects.</li><li>H351 Suspected of causing cancer.</li><li>H360Df May damage the unborn child. Suspected of damaging fertility.</li><li>H372 Cause damage to organs through prolonged or repeated exposure.</li><li>H410 Very toxic to aquatic life with long lasting effects.</li></ul>
Pictogram (s)	Health hazard, Exclamation mark, Environment
2 ()	



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Product Name	LEAD	IODIDE			
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Precautionary statement – Prevention	P202 P260 P264 P270 P271 P273	Obtain special instruct Do not handle until all Do not breathe dust/fur Wash thoroughly after h Do not eat, drink or sr Use only outdoors or in Avoid release to the er Use personal protective	l me ha mc n nv	safety precaut /gas/mist/vapo ndling. ke when using a well-ventila rironment.	ions have been read and understood. prs/spray. this product. ted area.
Precautionary statement – Response	P301+ unwel P330 P304+ posit P312 P308+	P312 IF SWALLOWED: Call 1. Rinse mouth.	l e ea	a POISON CENTE victim to fres thing. doctor/physici	R or doctor/physician if you feel n air and keep at rest in a an if you feel unwell.
Precautionary statement – Storage Precautionary statement – Disposal	P405	Store locked up.	nt	ainer to an ap	proved waste disposal plant.

## 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion	
	Lead Iodide	10101-63-0	100 %	
4. First-aid meas	ures			
Inhalation	If inhaled, remove from contaminated area to fresh air immediately. Apply 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 medical advice if effects persist.			
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Wash contaminated clothing before re-use. Seek medical advice.			
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.			
<b>First Aid Facilities</b>	Maintain eyewash fo	ountain and safety show	er in work area.	
Advice to Doctor	tor Treat symptomatically based on judgement of doctor and individual reactions the patient.			
Other Information	-	a Poisons Information 54 766) or a doctor.	Centre (Phone eg Australia 13 1126;	

# 5. Fire-fighting measures

Hazards from Combustion Products	Irritating and toxic fumes and gases. Hydrogen iodide, lead oxides.
Specific Methods	No limitations to the type of extinguishing media. Use extinguishing media most appropriate for the surrounding fire. 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.
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 connection with Fire	Wear SCBA and chemical splash suit. Fully-encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.



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#### 6. Accidental release measures

Personal Precautions	Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms. Evacuate the area of all non-essential personnel.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.
Environmental Precautions	Prevent from entering into drains, ditches, rivers or the sea.

# 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. Use with adequate ventilation. Avoid ingestion and inhalation of material.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed and dry, away from direct sunlight. Keep in a cool place Store away from foodstuffs.
Storage Regulations	Refer Australian Standard AS/NZS 4452:1997 'The storage and handling of toxic substances'.

## 8. Exposure controls/personal protection

Occupational exposure limit values	Name	S	FEL	5	rwa.	
	Lead Iodide	<u>mg/m3</u>	ppm	<b>mg/m3</b> 0.15	mqq	Footnote Lead, inorganic dusts & fumes (as Pb)

Other Exposure Information	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. 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.
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. 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.



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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.
<b>Body Protection</b>	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. Wash hands, forearms, face and neck before exiting restricted area. Launder contaminated clothing before re-use.

#### 9. Physical and chemical properties

Form	Solid
Appearance	Yellow to orange powder or crystals.
Odour	Odourless.
<b>Melting Point</b>	402 °C
<b>Boiling Point</b>	954 °C
Solubility in Water	Very slightly soluble in cold water.
Solubility in Organic Solvents	Insoluble in alcohol.
Specific Gravity	6.16
Vapour Pressure	1 mmHg (479 °C)
Flammability	Non combustible material.
Molecular Weight	461.0
Other Information	Soluble in potassium iodide and concentrated sodium acetate solutions.

#### **10. Stability and reactivity**

Chemical Stability	Stable at room temperature in closed containers under normal storage and handling conditions.						
Conditions to Avoid	Incompatible materials, light, dust generation, excess heat, strong oxidants.						
Incompatible Materials	Oxidising agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine and fluorine).						
Hazardous Decomposition	Irritating and toxic fumes and gases, hydrogen iodide, lead/lead oxides.						
Products							
Hazardous Polymerization	Will not occur.						

#### **11. Toxicological Information**

Ingestion Harmful if swallowed. May cause moderate to severe gastrointestinal tract irritation with abdominal pain and spasms, nausea, vomiting, headache and diarrhoea. Symptoms of ingestion of a very large dose over a short time period may include headache, fatigue, nausea, abdominal cramps, and joint pain. Acute poisoning can cause or lead to vomiting and constipation or bloody diarrhoea, joint and muscle pain, weakness of the extensor muscles (frequently the hand and wrist), depression, 'lead line' on the gums, metallic taste in the mouth, definite loss of appetite, insomnia, dizziness, possible convulsions, high lead levels in blood and urine with shock, coma and death in extreme cases. May affect behaviour/brain, metabolism, liver, cardiovascular system, urinary system, and blood. Exposure may cause anaemia and other blood abnormalities.



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	High body levels produce increased cerebrospinal pressure, brain damage, and stupor leading to coma and often death. If left untreated, neuromuscular dysfunction, possible paralysis, and encephalopathy can result. The following applies to lead compounds in general: due to the poor absorbability via the gastrointestinal tract, only very high doses lead to acute cases of intoxication.							
Inhalation	Harmful if inhaled. Inhalation of dusts may cause irritation of the nose, throat and respiratory system (local irritation of the bronchia, and lungs). Symptoms such as metallic taste, chest and abdominal pain, and increased lead blood levels may follow. Effects such as headache, fatigue, joint pain, nausea, vomiting, abdominal cramps and constipation or bloody diarrhoea may occur upon inhalation of large amounts. Lead can be absorbed through the respiratory system. See symptoms of ingestion. Lead accumulates in the body and inorganic lead compounds are well known to cause significant health effects following chronic exposure. If a significant amount of lead has accumulated in the body, symptoms of long-term toxicity may develop after what may seem to be a short-term acute exposure. See Chronic Effects.							
Skin	Inorganic lead compounds are not known to cause skin irritation and are poorly absorbed through the skin. Open cuts, abraded or irritated skin should not be exposed to this material. Contact over short periods may cause local irritation, redness and pain. May be harmful if absorbed through the skin on prolonged exposure. See symptoms for ingestion.							
Eye	Concentrated solutions or high levels of dust or fumes may cause eye irritation or abrasion, with redness, tearing, stinging, blurred vision, temporary impairment of vision and/or other transient eye damage/ulceration. Absorption may occur through eye tissues.							
Respiratory sensitisation Skin Sensitisation	Not classified based on available information.							
Germ cell	Not classified based on available information.							
mutagenicity Carcinogenicity	Lead compounds, inorganic is evaluated in the IARC Monographs (Vol. 87; in preparation) as Group 2A: Probably carcinogenic to humans. Carcinogenicity - Category 2 H351 Suspected of causing cancer.							
Reproductive Toxicity STOT-single	Reproductive toxicity - Category 1A H360Df May damage the unborn child. Suspected of damaging fertility. Not classified based on available information.							
exposure								
STOT-repeated exposure	Specific target organ toxicity (repeated exposure) – Category 1 H372 Causes damage to organs through prolonged or repeated exposure							
Chronic Effects	Lead is a cumulative poison and exposure even to small amounts can raise the body's content to toxic levels. Long-term health effects of inorganic lead compounds, including lead acetate, are similar following inhalation or ingestion. Long-term lead toxicity is commonly referred to as 'plumbism' and may include effects on the nervous system (forgetfulness, irritability, tiredness, headache, fatigue, impotence, decreased libido, dizziness, depression, encephalopathy, behavioural effects, altered mood states, disturbances in hand-eye coordination, reaction times, visual motor performance, and mental performance, disturbances to vision, changes in hearing, weakness of the arms and legs and weakness and paralysis of the wrist, fingers and ankles, decreased hand dexterity, footdrop and wristdrop), heart/blood vessels (reduced haemoglobin production and reduced life span and function of red blood cells, anaemia, increased blood pressure), digestive system (loss of appetite, inflammation of the stomach walls (gastritis) and colic, with severe abdominal pain, cramps, nausea, vomiting, constipation, anorexia (loss of appetite), weight loss and decreased urination, deposition of blue lead-line on the gums), kidneys/urinary system (reversible/irreversible kidney damage) and endocrine system.							
Subchronic/Chronic Toxicity	Repeated exposure to lead has caused many toxic effects including: neurological changes, kidney damage, and blood abnormalities.							



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12. Ecological information						
Ecological Information	Harmful to the environment.					
Ecotoxicity	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Hazard for drinking water supplies.					
Persistence and degradability	Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. Toxicity of the Products of Biodegradation: The products of degradation are more toxic.					
Environmental Fate	Lead is a naturally occurring element. It does not break down in soil or water but lead compounds are changed by sunlight, air and water. If released to the air from industry or burning of fossil fuels or waste, lead may remain airborne for about 10 days, depending on weather conditions. Lead will stay in soil, dust and sediments for many years.					
<b>Biological Properties</b>	Because lead does not break down and is highly persistent in water, it is expected that fish tissues will contain lead from polluted waters.					
<b>Other Precautions</b>	Do not allow to enter waters, waste water, or soil!					

#### 13. Disposal considerations

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

#### 14. Transport information

Transport Information	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 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.							
U.N. Number	2291							
UN proper shipping name	LEAD COMPOUND, SOLUBLE, N.O.S.							
Transport hazard class(es)	6.1							
Hazchem Code	2X							
Packing Group	III							
EPG Number	685							
IERG Number	34							
Environmental Hazards	Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment. Dangerous for the 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. S6

Poisons Schedule

#### 16. Other Information

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



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Contact Person/Point	Safe Work Safe in th Paul All i repre since and t make or ac accep may b for r	Work Australia Hazardous Subst Work Australia, e Occupational McCarthy Ph. (( nformation prov sentatives is o data, safety s he conditions o no warranty eit curacy to the is ts no responsible e obtained by (	A, 'Natic ances'. 'Nation Environm 08) 8440 vided in compiled standards of handli ther expr nformationity who	anal Code of Pra aal Exposure Sta ment'. 2000 DISCLAI this data sheet from the best k and government ing and use, or ressed or implie on contained he atsoever for it from using the	nformation System'. ctice for the Labelling of Safe ndards for Atmospheric Contaminants MER STATEMENT: or by our technical nowledge available to us. However, regulations are subject to change misuse, are beyond our control, we d, with respect to the completeness rein. ChemSupply Australia Pty Ltd s accuracy or for any results that data and disclaims all liability s data sheet or by our technical			
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