

Infosafe No™

1CHJC

Issue Date :July 2018

RE-ISSUED by CHEMSUPP

Product Name : **IODOMETHANE**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	IODOMETHANE						
<b>Company Name</b>	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)						
<b>Address</b>	38 - 50 Bedford Street GILLMAN SA 5013 Australia						
<b>Telephone/Fax Number</b>	Tel: (08) 8440-2000 Fax: (08) 8440-2001						
<b>Recommended use of the chemical and restrictions on use</b>	Organic synthesis, microscopy, testing for pyridine, component in fire extinguishers, methylating agent, light sensitive etching agent for electronic circuits and laboratory reagent.						
<b>Other Names</b>	<table><thead><tr><th><u>Name</u></th><th><u>Product Code</u></th></tr></thead><tbody><tr><td>Methyl iodide</td><td></td></tr><tr><td>IODOMETHANE LR</td><td>IL039</td></tr></tbody></table>	<u>Name</u>	<u>Product Code</u>	Methyl iodide		IODOMETHANE LR	IL039
<u>Name</u>	<u>Product Code</u>						
Methyl iodide							
IODOMETHANE LR	IL039						
<b>Other Information</b>	EMERGENCY CONTACT NUMBER: +61 08 8440 2000 Business hours: 8:30am to 5:00pm, Monday to Friday.						

Chem-Supply 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 Chem-Supply 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 Chem-Supply 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

<b>GHS classification of the substance/mixture</b>	Carcinogenicity: Category 2 Acute Toxicity - Inhalation: Category 3 Acute Toxicity - Oral: Category 3 Eye Damage/Irritation: Category 1 Skin Corrosion/Irritation: Category 2 Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation)
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H301 Toxic if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H331 Toxic if inhaled. H335 May cause respiratory irritation. H351 Suspected of causing cancer.
<b>Pictogram (s)</b>	Skull and crossbones,Health hazard,Corrosion



<b>Precautionary statement – Prevention</b>	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. 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 protection. P281 Use personal protective equipment as required. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
<b>Precautionary statement – Response</b>	



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<b>Precautionary statement – Storage</b>	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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P308+P313 IF exposed or concerned: Get medical advice/attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
<b>Precautionary statement – Disposal</b>	P501 Dispose of contents/container to an approved waste disposal plant.

## 3. Composition/information on ingredients

Chemical Characterization Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Methyl iodide	74-88-4	100 %		

## 4. First-aid measures

<b>Inhalation</b>	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.
<b>Ingestion</b>	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.
<b>Skin</b>	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical attention.
<b>Eye contact</b>	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.
<b>First Aid Facilities</b>	Maintain eyewash fountain and drench facilities in work area.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
<b>Other Information</b>	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

## 5. Fire-fighting measures

<b>Specific hazards arising from the chemical</b>	Non combustible. Fire or heat will produce irritating, poisonous and/or corrosive gases. Runoff may pollute waterways.
<b>Hazchem Code</b>	2X
<b>Decomposition Temp.</b>	270 °C
<b>Precautions in connection with Fire</b>	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.
<b>Extinguishing Media - Small Fires</b>	Usr dry chemical, CO2, alcohol resistant foam or water spray.

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	Ventilate area of leak or spill. Do NOT touch or walk through this product. 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, confined areas. Cover with plastic sheet to minimize 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.
<b>Personal Precautions</b>	Evacuate the area of all non-essential personnel. Avoid inhalation and ingestion. Avoid contact with skin, eyes and clothing. Ventilate contaminated area thoroughly.



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<b>Personal Protection</b>	Wear appropriate personal protective equipment as specified in Section 8.
<b>Clean-up Methods - Small Spillages</b>	Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.
<b>Clean-up Methods - Large Spillages</b>	Seek expert advice on handling and disposal.
<b>Environmental Precautions</b>	Prevent contamination of soil and water.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Do not breathe (dust, vapor or spray mist) Do not use in areas without adequate ventilation. Keep container closed when not in use. Wear suitable protective clothing, including gloves.
<b>Conditions for safe storage, including any incompatibilities</b>	Store away from oxidizing agents. Store away from sources of heat or ignition. Keep containers closed at all times. Do not store in unsuitable, unlabelled or incorrectly labelled containers. Keep container tightly closed and in a well-ventilated place.
<b>Storage Regulations</b>	Store away from bases. Protect from light.

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

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	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 methyl iodide (Safe Work Australia) of 12 mg/m <sup>3</sup> , (2 ppm). 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.
<b>Appropriate engineering controls</b>	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. These methods should be used in preference to personal protective equipment.
<b>Respiratory Protection</b>	Where sufficient ventilation is not available, avoid breathing dusts by wearing an AS 1716 approved P1 or P2 particulate filter respirator. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.  An approved respirator must be worn if the occupational exposure limit is likely to be exceeded. If significant mists, vapours or aerosols are generated an approved respirator is recommended, selected and used in accordance with AS/NZS 1715 and AS/NZS 1716. 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.
<b>Eye Protection</b>	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.
<b>Hand Protection</b>	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.  Recommendation: laminated film, viton (consider your own risk assessment, e.g. breakthrough times, rates of diffusion and degradation, tasks under taken).
<b>Personal Protective Equipment</b>	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.
<b>Footwear</b>	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.
<b>Hygiene Measures</b>	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



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<b>Form</b>	Liquid
<b>Appearance</b>	Colourless liquid, turns brown on exposure to light.
<b>Odour</b>	Acrid odor.
<b>Decomposition Temperature</b>	270 °C
<b>Melting Point</b>	-66.1 °C
<b>Boiling Point</b>	42 °C
<b>Solubility in Water</b>	14.0 g/100g at 20°C
<b>Solubility in Organic Solvents</b>	Soluble in alcohol, chloroform and ether.
<b>Specific Gravity</b>	2.24-2.27
<b>Vapour Pressure</b>	400 mm Hg @ 25 °C
<b>Vapour Density (Air=1)</b>	4.9
<b>Partition Coefficient: n-octanol/water</b>	log Pow: 1.5 at 20°C.
<b>Flammable Limits - Lower</b>	8.5%
<b>Flammable Limits - Upper</b>	66%
<b>Molecular Weight</b>	141.94

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable at room temperature in sealed containers, stabilised with copper foil. Turns yellow, red, or brown on exposure to light, due to decomposition and liberation of free iodine. Decomposes at 270°C.
<b>Conditions to Avoid</b>	Risk of explosion with phosphines, sodium.
<b>Incompatible Materials</b>	Strong oxidisers, strong bases, powdered metals, mercury, mercury oxides, oxygen and silver salts.
<b>Hazardous Decomposition Products</b>	Oxides of carbon, hydrogen iodide gas and iodide.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

<b>Toxicology Information</b>	Oral LD50 (rat): 76 mg/kg; LD50 s.c. (mouse): 0.78 mmol/kg - International Agency for Research on Cancer (IARC), 1986.
<b>Ingestion</b>	Ingestion may damage the gastro-intestinal tract. Severe intoxication can occur with symptoms of central nervous system depression. Coma, convulsions, and death may follow.
<b>Inhalation</b>	Inhalation of vapors can irritate the respiratory tract. Overexposure may produce symptoms of vertigo, delirium and mental disturbances. Other symptoms may include slurred speech, drowsiness, coughing, nausea and vomiting. Higher exposures can cause a build up of fluid in the lungs which can cause death. 'Acute inhalation exposure of humans to methyl iodide has resulted in nausea, vomiting, vertigo, ataxia, slurred speech, drowsiness, skin blistering, and eye irritation' (US EPA, 2000).
<b>Skin</b>	Causes irritation, rash and blister formation. Prolonged contact can cause skin burns. Can be absorbed through skin with toxic effects.
<b>Eye</b>	Vapors can cause irritation. Splashes may cause severe irritation with eye damage.
<b>Skin Sensitisation</b>	Based on the available data, the chemical is not expected to be a skin sensitisier.
<b>Carcinogenicity</b>	IACR - Category 3. Substances suspected of having carcinogenic potential are those substances which have possible carcinogenic effects on humans but in respect of which the available information is not adequate for making a satisfactory assessment. There is some evidence from appropriate animal or epidemiological studies, but this is insufficient to place the substance in Category 2. The chemical is classified as hazardous—Category 3 carcinogenic substance—with the risk phrase 'Limited evidence of carcinogenic effect' (Xn; R40) in HSIS (Safe Work Australia). Based on the available experimental data, there is conflicting evidence on the chemical's ability to induce cancers in

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<b>Reproductive Toxicity</b>	humans, which is insufficient to amend the classification. Based on the information available, the chemical is not considered to have specific reproductive or developmental toxicity.
<b>Chronic Effects</b>	Prolonged or repeated exposure to smaller doses cause primarily central nervous system effects. Symptoms may include slurred speech, blurred vision, Parkinsonian rigidity and memory defects. Has been shown to cause cancer in animals and may be linked to cancer in humans.
<b>Respiratory Irritation</b>	H335 May cause respiratory irritation.
<b>Skin corrosion/irritation</b>	H318 Causes serious eye damage.
<b>Other Information</b>	Persons with pre-existing skin disorders or eye problems, or impaired respiratory function may be more susceptible to the effects of the substance. NICNAS - Methane, iodo-: Human health tier II assessment

## 12. Ecological information

<b>Ecotoxicity</b>	Quantitative data not available.
<b>Environmental Fate</b>	When released into the soil, this material is expected to quickly evaporate. When released into the water, this material is expected to have a half-life of greater than 30 days. This material has an estimated bioconcentration factor (BCF) of less than 100. When released into the air, this material may be moderately degraded by photolysis.

## 13. Disposal considerations

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.
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## 14. Transport information

<b>Transport Information</b>	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.
<b>U.N. Number</b>	2644
<b>UN proper shipping name</b>	METHYL IODIDE
<b>Transport hazard class(es)</b>	6.1
<b>Hazchem Code</b>	2X
<b>Packing Group</b>	I
<b>EPG Number</b>	6A3
<b>IERG Number</b>	34

## 15. Regulatory information

<b>Regulatory Information</b>	Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. Listed in the Australian Inventory of Chemicals Substances (AICS).
<b>Poisons Schedule</b>	S7

## 16. Other Information

<b>Literature References</b>	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Substances Information System, 2005. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances
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(2011)'.

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.

**Contact Person/Point**

Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:

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**Empirical Formula & CH<sub>3</sub>I**

**Structural Formula**

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