

Date of Issue/re-issue: 13/02/2019

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**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Company Name

**ECP Limited**

Address:

39 Woodside Ave, Northcote, Auckland , New Zealand

Emergency Tel: 0800 243 622 or .....0800 CHE M CA LL		Tel +64 9 480 4386			FAX +64 9 480 4385	
Product	Iodomethane				Code	806064
CAS#	HSNO#	UN #	DG Class/es	Packing group #	Tracking?	Handlers Certificate?
74-88-4	HSR003006	2644	6.1	I	6.1A, 9.3A	6.1A, 9.3A

**Recommended use:** Laboratory Investigations**2. Hazards identification****2.1 GHS Classification**

Acute toxicity, Oral (Category C)

Acute toxicity, Inhalation (Category B)

Acute toxicity, Dermal (Category C)

Skin irritation (Category A)

Serious eye damage (Category A)

Respiratory sensitisation (Category A)

Skin sensitisation (Category B)

Carcinogenicity (Category B)

**2.2 GHS Label elements, including precautionary statements**

Pictogram

Signal word **Danger**

Hazard statement(s)

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H351 Suspected of causing cancer.

Precautionary statement(s)

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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

P264 Wash skin thoroughly after handling.

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

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/eye protection/face protection.

P284 Wear respiratory protection.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
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/doctor.  
P330 Rinse mouth.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P361 Remove/Take off immediately all contaminated clothing.  
P362 Take off contaminated clothing and wash before reuse.

Storage  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

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

2.3 Other hazards  
Vesicant, rapidly absorbed through skin.

### 3. Composition/information on ingredients

Substance/Mixture: Substance

#### 3.1 Substances

Hazardous components

Component	Classification	Concentration
Methyl iodide		
	6.1 C; 6.1 B; 6.1 C; 8.2 A; 8.3 A; 6.5 A; 6.5 B; 6.7 B; H301, H330, H311, H314, H318, H334, H317, H351	<= 100%

### 4. First aid measures

#### 4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.

Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

Nausea, dizziness, headache, blurred vision, weakness, drowsiness, ataxia, confusion, convulsions, narcosis, pulmonary oedema. Effects may be delayed. Symptoms of systemic copper poisoning may include capillary damage, headache, cold sweat, weak pulse, and kidney and liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by

humans with Wilson's disease. It has also been reported that copper poisoning has led to haemolytic anaemia and accelerates arteriosclerosis.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

### 5. Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

No data available

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

No data available

### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### 7. Handling and storage

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature 2 - 8 °C

Light sensitive. Moisture sensitive.

#### 7.3 Specific end use(s)

No data available

### 8. Exposure controls/personal protection

#### 8.1 Control parameters

Occupational Exposure Limits Table

Component	CAS No	Value	Control parameters	Basis
Methyl iodide	74-88-4	WES-TWA	2 ppm 12 mg/m <sup>3</sup>	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
	Remarks	Skin absorption		

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards.

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

#### Full contact

Material: Fluorinated rubber

Minimum layer thickness: 0.7 mm

Break through time: > 480 min

#### Splash contact

Material: Fluorinated rubber

Minimum layer thickness: 0.7 mm

Break through time: > 480 min

#### Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### a) Appearance

Form: liquid

#### b) Odour

No data available

#### c) Odour Threshold

No data available

#### d) pH

No data available

#### e) Melting point/freezing point

Melting point/range: -64 °C - lit.

#### f) Initial boiling point and boiling range

41 - 43 °C - lit.

#### g) Flash point

No data available

#### h) Evaporation rate

No data available

#### i) Flammability (solid, gas)

No data available

#### j) Upper/lower flammability or explosive limits

Upper explosion limit: 66 %(V)

Lower explosion limit: 8.5 %(V)

#### k) Vapour pressure

544 hPa at 20 °C 1,660 hPa at 55 °C

#### l) Vapour density

4.90 - (Air = 1.0)

m) Relative density  
2.28 g/cm<sup>3</sup> at 25 °C  
n) Water solubility  
14 g/l at 20 °C  
o) Partition coefficient: n-octanol/water  
log Pow: 1.5 at 20 °C  
p) Auto-ignition temperature  
No data available  
q) Decomposition temperature  
No data available  
r) Viscosity  
No data available

## **10. Stability and reactivity**

10.1 Reactivity  
No data available  
10.2 Chemical stability  
No data available  
Contains the following stabiliser(s): Copper, (100 ppm)  
10.3 Possibility of hazardous reactions  
No data available  
10.4 Conditions to avoid  
No data available  
10.5 Incompatible materials  
Strong oxidizing agents, Strong bases, Oxygen  
10.6 Hazardous decomposition products  
Hazardous decomposition products formed under fire conditions  
Carbon oxides, Hydrogen iodide

## **11. Toxicological information**

11.1 Information on toxicological effects  
Acute toxicity  
LD50 Oral - Rat - 76 mg/kg  
LC50 Inhalation - Rat - 4 h - 1,300 mg/m<sup>3</sup>  
LD50 Dermal - Guinea pig - 800 mg/kg  
Skin corrosion/irritation  
Skin - Rabbit - Causes severe burns. - Draize Test  
Serious eye damage/eye irritation  
Eyes - Rabbit - Risk of serious damage to eyes. - Draize Test  
Respiratory or skin sensitisation  
May cause allergic respiratory and skin reactions  
Germ cell mutagenicity  
No data available  
Carcinogenicity  
This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification. Limited evidence of carcinogenicity in animal studies.  
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
Reproductive toxicity  
No data available  
Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation

May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Causes respiratory tract irritation.

Ingestion

Toxic if swallowed. Causes burns.

Skin Toxic if absorbed through skin. Causes skin burns.

Eyes

Causes eye burns.

Signs and Symptoms of Exposure

Nausea, dizziness, headache, blurred vision, weakness, drowsiness, ataxia, confusion, convulsions, narcosis, pulmonary oedema. Effects may be delayed. Symptoms of systemic copper poisoning may include capillary damage, headache, cold sweat, weak pulse, and kidney and liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson's disease. It has also been reported that copper poisoning has led to haemolytic anaemia and accelerates arteriosclerosis.

Additional Information

RTECS: Not available

## **12. Ecological information**

### **12.1 Toxicity**

No data available

### **12.2 Persistence and degradability**

Biodegradability aerobic - Exposure time 28 d

Result: 16 % - Not readily biodegradable.

Method: Closed Bottle test

### **12.3 Bioaccumulative potential**

No data available

### **12.4 Mobility in soil**

No data available

### **12.5 Results of PBT and vPvB assessment**

No data available

### **12.6 Other adverse effects**

No data available

## **13. Disposal considerations**

### **13.1 Waste treatment methods**

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

#### 14. Transport Information Table

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
14.1	UN Number	2644	2644	2644
14.2	UN Proper Shipping name	METHYL IODIDE	METHYL IODIDE	Methyl iodide
14.3	Transport Hazard Class	6.1	6.1	6.1
14.4	Packaging group	I	I	-
14.5	Environmental Hazards	No	No	No
14.6	Special precautions for user	No data available		

#### 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

HSNO Group Standard Approval: Outside of Group Standard

Tracking Required: 6.1A, 9.3A

Approved Handler Cert.: 6.1A, 9.3A

#### 16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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