# SAFETY DATA SHEET

Revision date 17-October-2022

1. Identification			
Product identifier			
Product Name	METHYL IODIDE, REAGENT		
Other means of identification			
Product Code(s)	M1270		
UN/ID no	UN2644		
Synonyms	None		
Recommended use of the chemical and restrictions on use			
Recommended use	No information available		
Restrictions on use	No information available		
Details of the supplier of the safety data sheet			
Supplier Address Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000			
Emergency telephone number			
Emergency Telephone	Chemtrec 1-800-424-9300		

## 2. Hazard(s) identification

#### **Classification**

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Vapors)	Category 2
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

## Hazards not otherwise classified (HNOC)

Not applicable

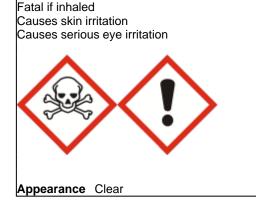
#### Label elements

Danger

Hazard statements	_
Hazard statements Toxic if swallowed	
Toxic in contact with s	skin



Revision Number 2



Physical state Liquid

Odor Pungent or Ethereal

#### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Wear respiratory protection

#### **Precautionary Statements - Response**

Specific treatment is urgent (see .? on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of water and soap Call a POISON CENTER or doctor if you feel unwell Take off immediately all contaminated clothing and wash it before reuse If skin irritation occurs: Get medical advice/attention IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER or doctor IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth

#### **Precautionary Statements - Storage**

Store locked up. Store in a well-ventilated place. Keep container tightly closed

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Unknown acute toxicity

#### Other information

Toxic to aquatic life with long lasting effects.

#### 3. Composition/information on ingredients

#### Substance

Chemical name	CAS No	Weight-%
Methyl Iodide	74-88-4	100

#### 4. First-aid measures

#### **Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. IF exposed or concerned: Get medical advice/attention.	
Inhalation	If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.	
Eye contact	Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area.	
Skin contact	Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.	
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe vapor or mist. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Coughing and/ or wheezing. Difficulty in breathing. May cause redness and tearing of the eyes. Burning sensation.	
Indication of any immediate medical attention and special treatment needed		

Note to physicians Treat symptomatically.

# 5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.	
Large Fire		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	No information available.	
Hazardous combustion products	Chloroform does not burn, but may decompose upon heating to produce the following if involved in a fire: carbon monoxide, carbon dioxide, hydrogen chloride and chlorine. Calcium oxides. Carbon dioxide (CO2).	
Explosion data Sensitivity to mechanical impact none.		
Sensitivity to static discharge	none.	
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Do not breathe vapor or mist. Keep people away from and upwind of spill/leak.		
Other information	Refer to protective measures listed in Sections 7 and 8.		
Methods and material for containment and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Pick up and transfer to properly labeled containers.		

## 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. Do not breathe vapor or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product.
Conditions for safe storage,	including any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

## 8. Exposure controls/personal protection

#### Control parameters

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl Iodide	No data available	5 ppm TWA	-
74-88-4		28 mg/m <sup>3</sup> TWA	

#### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

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Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do
	not eat, drink or smoke when using this product. Remove and wash contaminated clothing

and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not breathe vapor or mist. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	Clear	
Color	Colorless	
Odor	Pungent or Ethereal	
Odor threshold	No information available	
Property_	Values	Remarks • Method
H	no data available	None known
Melting point / freezing point	-67 °C / -88.6 °F	None known
Boiling point / boiling range	43 °C / 109.4 °F	None known
Flash point	no data available	None known
Evaporation rate	no data available	None known
Flammability (solid, gas)	no data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	54	None known
Vapor density	5	None known
Relative density	2.3	None known
Water solubility	Soluble in water	None known
Solubility(ies)	Soluble in Acetone	None known
Solubility(103)	Soluble in Carbon tetrachloride	
	Miscible with Ether	
	Misciple with alcohol	
Partition coefficient	No data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature		None known
Kinematic viscosity	no data available	None known
Dynamic viscosity	No data available	None known
Dynamic viscosity	NU Uala avaliable	
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
	No information available	
Softening point		
Molecular weight	No information available No information available	
VOC Content (%)	No information available	
Liquid Density		
Bulk density	No information available	

## 10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Excessive heat.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.
Hazardous decomposition products None known based on information supplied.	

## 11. Toxicological information

### Information on likely routes of exposure

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#### **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on components). May cause irritation of respiratory tract.	
Eye contact	Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.	
Skin contact	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components). Toxic in contact with skin.	
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Toxic if swallowed. (based on components).	
Symptoms related to the physical, chemical and toxicological characteristics		

# Symptoms

Coughing and/ or wheezing. Difficulty in breathing. Redness. May cause redness and tearing of the eyes.

#### Acute toxicity

Numerical measures of toxicity

#### Unknown acute toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl Iodide 74-88-4	= 51 mg/kg (Rat) = 76 mg/kg (Rat)	800 mg/kg (guinea pig)	= 1300 mg/m³(Rat)4 h

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	Contains a known or suspected carcinogen. Classification based on data available for
	ingredients. May cause cancer.
The table below indicates whether each agency has listed any ingredient as a carcinogen.	

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Chemical name	ACGIH	IARC	NTP	OSHA
Methyl Iodide	-	Group 3 - Not	-	-
74-88-4		Classifiable - Monograph		
		71 [1999]		
		Supplement 7 [1987]		
		Monograph 41 [1986]		

## Legend

Reproductive toxicity	No information available.	
STOT - single exposure STOT - repeated exposure Target organ effects	May cause respiratory irritation. No information available. kidney, respiratory system, Eyes, Skin, central nervous system, lungs, Gastrointestinal tract (GI).	
Aspiration hazard	No information available.	
Other adverse effects	No information available.	

No information available.

## 12. Ecological information

Ecotoxicity	Toxic to aquatic life with long lasting effects.			
Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Methyl Iodide 74-88-4	-	LC50: =1.4mg/L (96h, Oncorhynchus mykiss)	-	-

# Persistence and degradability Bioaccumulation

No information available. Inherently biodegradable.

#### **Component Information**

Chemical name	Partition coefficient
Methyl Iodide	1.51 - 1.69
74-88-4	

Other adverse effects

No information available.

# 13. Disposal considerations Waste treatment methods Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Contaminated packaging Do not reuse empty containers.

## 14. Transport information

DOT UN/ID no Proper Shipping Name: Hazard class Packing group: Special Provisions Description: Emergency Response Guide Number	UN2644 Methyl iodide 6.1 I 2, B9, B14, B32, T20, TP2, TP13, TP38, TP45 UN2644, Methyl iodide, 6.1, I, Marine pollutant 151
TDG Description:	Forbidden not regulated Forbidden
MEX UN-No Proper Shipping Name Hazard class Special Provisions Packing Group Description	UN2644 Methyl iodide 6.1 354 I UN2644, Methyl iodide, 6.1, I
ICAO (air) Description:	Forbidden BY PASSENGER AIR Forbidden
IATA Description:	Forbidden BY PASSENGER AIR Forbidden Forbidden

IMDG UN number Proper shipping name Transport hazard class(es) Packing group EmS-No Special Provisions Marine pollutant Description	UN2644 Methyl iodide 6.1 I F-A, S-A 354 P UN2644, Methyl iodide, 6.1, I, Marine pollutant
<u>RID</u> UN number Proper Shipping Name: Transport hazard class(es) Packing group Classification code Special Provisions Description: Labels	UN2644 METHYL IODIDE 6.1 I T1 354 UN2644, METHYL IODIDE, 6.1, I, ENVIRONMENTALLY HAZARDOUS 6.1
ADR UN number Proper Shipping Name: Transport hazard class(es) Packing group Classification code Tunnel restriction code Special Provisions Description: Labels	UN2644 Methyl iodide 6.1 I T1 (C/D) 354 UN2644, Methyl iodide, 6.1, I, (C/D), ENVIRONMENTALLY HAZARDOUS 6.1
ADN UN/ID No Proper shipping name Transport hazard class(es) Packing Group Classification code Special Provisions Description Hazard label(s) Limited quantity (LQ) ventilation Equipment Requirements	UN2644 Methyl iodide 6.1 I T1 354, 802 UN2644, Methyl iodide, 6.1, I, ENVIRONMENTALLY HAZARDOUS 6.1 0 VE02 PP, EP, TOX, A

## 15. Regulatory information

#### International Inventories

TSCA

Complies

DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	This product complies with ENCS:
IECSC	This product complies with China:
KECL	Complies
PICCS	Complies
AICS	All the constituents of this material are listed on the Australian Inventory of Chemical
AICS	All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List **EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

- **IECSC** China Inventory of Existing Chemical Substances
- KECL Korean Existing and Evaluated Chemical Substances
- **PICCS** Philippines Inventory of Chemicals and Chemical Substances

#### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Methyl Iodide - 74-88-4	1.0

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Methyl Iodide	100 lb final RQ	-
74-88-4	45.4 kg final RQ	

#### US State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65	
Methyl Iodide - 74-88-4	carcinogen	

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Methyl Iodide	sn 1266	Present(carcinogen;	Environmental hazard
74-88-4		Extraordinarily hazardous)	Special hazardous substance

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

#### 16. Other information

NFPA\_\_\_\_\_\_ Health hazards 4 Flammability 0 Instability 0 Physical and chemical properties -<u>HMIS\_\_\_\_\_\_\_</u> Health hazards 4 \* Flammability 0 Physical hazards 0 Personal protection X Chronic Hazard Star Legend

\* = Chronic Health Hazard

#### Key or legend to abbreviations and acronyms used in the safety data sheet

LegendSection 8: EXPOSURE CONTROLS/PERSONAL PROTECTIONTWATWA (time-weighted average)STELCeilingMaximum limit value

STEL (Short Term Exposure Limit)

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date Revision Note 17-October-2022 No information available.

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet