# Material Safety Data Sheet METHYL IODIDE FOR SYNTHESIS 99% (Iodomethane) Product Code: 16284 VERSION: 02 DATE OF ISSUE: 26-08-2019 SUPERSEDES: 01 Page 1 of 9

# 1. Identification of the substance/mixture and of the company/undertaking

# 1.1. Product identifier

**Trade name:** METHYL IODIDE FOR SYNTHESIS 99%

Product code: 16284

**Identification of the product**: Iodomethane

CAS No: 74-88-4

**Chemical formula** : CH<sub>3</sub>I

1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use**: Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

**Company identification**: MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel:

+91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

Email: info@molychem.net

Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co.,

Kulgaon, Badlapur (E), Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number: +91 22 4066 8111 (10:00am - 6:00 pm).

### 2. Hazards identification -DSD

### 2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification: Carc. Cat. 3; R40

T; R23/25 Xn; R21 Xi: R37/38

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

**Health hazards**: Carcinogenicity - Category 2 - Warning (CLP: Carc. 2) H351 Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -

Category 3 - Warning (CLP: STOT SE 3) H335

Acute toxicity, Oral - Category 3 - Danger (CLP: Acute Tox. 3) H301 Acute toxicity, dermal - Category 4 - Warning (CLP: Acute Tox. 4) H312

Acute toxicity, Inhalation - Category 3 - Danger (CLP : Acute Tox. 3) H331

Skin irritation - Category 2 - Warning (CLP: Skin Corr. 2) H315

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s): T: Toxic

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**R Phrase(s)**: R21: Harmful in contact with skin. R23/25: Toxic by inhalation and if swallowed. R37/38: Irritating to respiratory system and skin. R40: Limited evidence of a carcinogenic effect.

**S Phrase(s)**: S1/2: Keep locked up and out of reach of children.

S36/37: Wear suitable protective clothing and gloves.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S45: In case of accident or if you feel unwell, seek medical advice immediately (

show the label when possible).

# **Labelling Regulation EC 1272/2008 (CLP)**

# Hazard pictograms





Signal words: Danger

**Hazard statements**: H301: Toxic if swallowed.

H331: Toxic if inhaled.

H351 : Suspected of causing cancer. H312 : Harmful in contact with skin.

H315: Causes skin irritation.

H335: May cause respiratory irritation.

### **Precautionary statements**

• General: P102: Keep out of reach of children.

P103: Read label before use.

P101: If medical advice is needed, have product container or label at hand.

P201: Obtain special instructions before use.

• **Prevention**: P280: Wear protective gloves, protective clothing, eye protection, face protection.

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

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling.

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

• Response : P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor

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

P308+P313: If exposed or concerned: get medical advice.

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P332+P313: If skin irritation occurs: Get medical advice.

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P363: Wash contaminated clothing before reuse.

- **Storage**: P403+P233: Store in well-ventilated place. Keep container tightly closed. P405: Store locked up.
- **Disposal considerations**: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

**Other hazards**: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

# 3. Composition/information on ingredients

Substance / Preparation : Iodomethane

CAS No: 74-88-4

Substance.

**Substance name Contents CAS No Iodomethane**:

100 %

74-88-4

Contains no other components or impurities which will influence the classification of the product.

## 4. First aid measures

# 4.1. Description of first aid measures

**Inhalation**: Call a POISON CENTER or doctor if you feel unwell. Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing. Specific treatment (see on this label).

**Skin contact**: Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. Wash with plenty of soap and water. Specific treatment (see on this label). If skin irritation occurs: Get medical advice.

**Eye contact**: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

**Ingestion**: Rinse mouth. Do NOT induce vomiting. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.

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

**Symptoms relating to use**: Danger of serious damage to health by prolonged exposure through inhalation. Suspected of causing cancer. Swallowing a small quantity of this material will result in serious health hazard.

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Causes skin irritation. May cause respiratory irritation. Repeated exposure to this material can result in absorption through skin causing significant health hazard.

**4.3.** Indication of any immediate medical attention and special treatment needed General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

## 5. Fire-fighting measures

# 5.1. Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media**: Do not use a heavy water stream.

**Surrounding fires**: Use water spray or fog for cooling exposed containers.

# 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products**: Under fire conditions, hazardous fumes will be present.

# **5.3.** Advice for fire-fighters

**Protection against fire**: Do not enter fire area without proper protective equipment, including respiratory protection.

**Special procedures**: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

### 6. Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders: Equip cleanup crew with proper protection.

Ventilate area.

**For non-emergency personnel**: Evacuate unnecessary personnel.

### **6.2.** Environmental precautions

**Environmental precautions**: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

**Clean up methods**: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

### **6.4.** Reference to other sections

See section 8. Exposure controls/personal protection

### 7. Handling and storage

### 7.1. Precautions for safe handling

**Handling**: Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Obtain special instructions before use. Avoid breathing dust, fume, gas, mist, vapours, spray. Use only outdoors or in a well-ventilated area.

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**Technical protective measures**: Provide good ventilation in process area to prevent formation of vapour.

**Special precautions**: Avoid breathing dust, fume, gas, mist, vapours, spray.

# 7.2. Conditions for safe storage, including any incompatibilities

**Storage**: Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)
Specific end use(s): None.

### 8. Exposure controls/personal protection

# 8.1. Exposure controls

**Personal protection**: Avoid all unnecessary exposure.

- **Respiratory protection**: In case of insufficient ventilation, wear suitable respiratory equipment.
- Hand protection : Wear protective gloves.
- Skin protection : Wear suitable protective clothing.
- Eve protection : Chemical goggles or safety glasses.
- Others: When using, do not eat, drink or smoke.

### **8.2.** Control parameters

Occupational Exposure Limits : No data available.

# 9. Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Liquid. Odour threshold : No data available.

pH value: No data available.
Melting point [°C]: -66.10C
Decomposition point [°C]: N/A
Critical temperature [°C]: N/A
Auto-ignition temperature [°C]: N/A

Flammability (solid, gas): N/A

Flash point  $[^{\circ}C]$ : N/A Boiling point  $[^{\circ}C]$ : 420C Initial boiling point  $[^{\circ}C]$ : N/A Final boiling point  $[^{\circ}C]$ : N/A

**Evaporation rate**: N/A

Vapour pressure [20°C] : N/A

Vapour pressure mm/Hg: 400 mm Hg @ 250C

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Vapour density: 4,9 Density [g/cm3]: 2,28

Relative density, gas (air=1) : N/A Relative density, liquid (water=1) : N/A

Solubility in water [% weight]: 14 g/100 g water @ 2

**Solubility in water** : N/A

Log Pow octanol / water at 20°C : No data available.

**Solubility**: N/A

Viscosity at 40°C [mm2/s]: N/A

**9.2. Other information Explosive properties**: N/A

Explosion limits - upper [%]: N/A
Explosion limits - lower [%]: N/A
Oxidising properties: No data available.

# 10. Stability and reactivity

10.1. Reactivity

**Reactivity**: Not established. **10.2. Chemical stability** 

Chemical stability: Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions Hazardous reactions** : Not established.

10.4. Conditions to avoid

**Conditions to avoid**: Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

**Materials to avoid**: Strong acids. Strong bases. **10.6. Hazardous decomposition products** 

Hazardous decomposition products: Fumes. Carbon monoxide. Carbon dioxide.

# 11. Toxicological information

# 11.1. Information on toxicological effects

**Acute toxicity** 

• Inhalation : Toxic if inhaled.

• Dermal: Harmful in contact with skin.

• **Ingestion** : Toxic if swallowed.

**Corrosion**: Based on available data, the classification criteria are not met.

**Irritation**: Causes skin irritation. May cause respiratory irritation.

**Sensitization**: Based on available data, the classification criteria are not met. **Mutagenicity**: Based on available data, the classification criteria are not met.

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Carcinogenicity: Suspected of causing cancer.

**Toxic for reproduction**: Based on available data, the classification criteria are not met. **STOT-single exposure**: Based on available data, the classification criteria are not met. **STOT-repeated exposure**: Based on available data, the classification criteria are not met.

**Aspiration hazard**: Based on available data, the classification criteria are not met.

# 12. Ecological information

### 12.1. Toxicity

**Toxicity information**: Not established.

12.2. Persistence - degradability

**Persistence - degradability**: Biodegradable.

12.3. Bioaccumulative potential

**Bioaccumulative potential**: Not established.

12.4. Mobility in soil

Mobility in soil: Not established.

12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment**: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### 12.6. Other adverse effects

**Environmental precautions**: Avoid release to the environment.

### 13. Disposal considerations

### 13.1. Waste treatment methods

**General**: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Special precautions**: Hazardous waste due to toxicity.

### 14. Transport information

# 14.1. Land transport (ADR-RID)

**Proper shipping name**: METHYL IODIDE

UN N°: 2644 H.I. nr: 66 ADR - Class: 6.1

**Labelling - Transport**: 6.1: Toxic substances.

**ADR - Classification code** : T1

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ADR - Group : I

**ADR - Packing instructions**: P602

**ADR - Limited Quantity**: 0

**ADR - Tunnel code**: C/D: Tank carriage: Passage forbidden through tunnels category C, D and E. Other carriage: Passage forbidden through tunnels of category D and E.

14.2. Sea transport (IMDG) [English only] Proper shipping name : METHYL IODIDE

UN N°: 2644

**IMO-IMDG - Class or division**: 6.1: Toxic substances.

**IMO-IMDG - Packing group**: I

IMO-IMDG - Packing instructions: P001 IMO-IMDG - Limited quantities: None IMO-IMDG - Marine pollution: No

EMS-Nr: F-A S-A

14.3. Air transport (ICAO-IATA) [English only]

**Proper shipping name**: METHYL IODIDE

UN N°: 2644

**IATA - Class or division**: 6.1: Toxic substances.

**IATA - Packing group**: I

IATA - Passenger and Cargo Aircraft : NOT ALLOWED

IATA - Cargo only: NOT ALLOWED

ERG-Nr: 6L

### 15. Regulatory information

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

**Safety, health and environmental**: Ensure all national/local regulations are observed. **regulations/legislation specific for the substance or mixture** 

**REACH Restrictions - Annex XVII**: The components of this product are not subject to restrictions.

**REACH Authorisation - Annex XIV**: The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment: It has not been carried out.

### 16. Other information

**Abbreviations and acronyms**: PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used: REGULATION (EC) No 1272/2008 OF THE EUROPEAN

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PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 **Further information**: None.

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### **End of document**

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