

# Safety Data Sheet

## Methyltrioctylphosphonium methylcarbonate, 50% in Methanol

Revision Date: 20/05/2016

Date Issued: 2/8/2018

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Methyltrioctylphosphonium methylcarbonate, 50%<br>in Methanol   |
| <b>Product code</b>        | IN-0031   |
| <b>CAS</b>                 | n/a   |
| <b>REACH No.</b>           | A registration number is not available for this<br>substance as the substance or its uses are<br>exempted from registration, the annual tonnage<br>does not require a registration or the registration is<br>envisaged for a later registration deadline. |
| <b>Identified uses</b>     | Laboratory chemicals, Manufacture of substances   |
| <b>Supplier</b>            | IoLiTec<br>Ionic Liquids Technologies GmbH<br>Salzstraße 184<br>D – 74076 Heilbronn<br>Germany  |
| <b>Telephone</b>           | +49 (0)7131-89839-0   |
| <b>Fax</b>                 | +49 (0)7131-89839-109   |
| <b>Emergency telephone</b> | +49 (0)176-84850874   |
| <b>Email</b>               | <a href="mailto:msds@iolitec.de">msds@iolitec.de</a>  |

### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids (Category 3)

Acute toxicity, Inhalation (Category 4)

# Safety Data Sheet

## Methyltrioctylphosphonium methylcarbonate, 50% in Methanol

Revision Date: 20/05/2016

Date Issued: 2/8/2018

---

Acute toxicity, Dermal (Category 4)

Acute toxicity, Oral (Category 4)

Skin irritation (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)

Specific target organ toxicity - single exposure (Category 1)

### Classification (67/548/EEC or 1999/45/EC)

Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects

through inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)



Signal word

Danger

#### *Hazard statements*

#### H-phrases

|      |                                   |
|------|-----------------------------------|
| H226 | Flammable liquid and vapour.      |
| H302 | Harmful if swallowed.             |
| H312 | Harmful in contact with skin.     |
| H315 | Causes skin irritation.           |
| H319 | Causes serious eye irritation.    |
| H332 | Harmful if inhaled.               |
| H335 | May cause respiratory irritation. |
| H370 | Causes damage to organs.          |

# Safety Data Sheet

## Methyltrioctylphosphonium methylcarbonate, 50% in Methanol

Revision Date: 20/05/2016

Date Issued: 2/8/2018

---

### *Precautionary statements*

#### **P phrases**

|                    |  |
|--------------------|--|
| P260               | Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  |
| P280               | Wear protective gloves/ protective clothing.   |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P307 + P311        | IF exposed: Call a POISON CENTER or doctor/ physician.   |

#### **Labelling (67/548/EEC or 1999/45/EC)**

|   |       |
|---|-------|
| T | Toxic |
|---|-------|

#### **Risk phrases**

|              |   |
|--------------|---|
| R23/24/25    | Toxic by inhalation, in contact with skin and if swallowed.   |
| R36/37/38    | Irritating to eyes, respiratory system and skin.  |
| R39/23/24/25 | Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. |

#### **Safety phrases**

|        |   |
|--------|---|
| S26    | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.               |
| S36/37 | Wear suitable protective clothing and gloves.   |
| S45    | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |

# Safety Data Sheet

## Methyltrioctylphosphonium methylcarbonate, 50% in Methanol

Revision Date: 20/05/2016

Date Issued: 2/8/2018

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient name  | CAS     | Contents | Health(Class)                          | Risk(R/No.)   |
|--|---------|----------|--|---|
| Methyltrioctylphosphonium methylcarbonate, 50% in Methanol | n/a     | 50%      | Skin Irrit. 2; Eye Irrit. 2; STOT SE 3 | H315, H319, H335 ,R36/37/38                             |
| Methanol   | 67-56-1 | 50%      | Flam. Liq. 2; Acute Tox. 3; STOT SE 1; | H225, H301,H311, H331, H370R10, R23/24/25, R39/23/24/25 |

### 4 FIRST AID MEASURES

|                   |  |
|-------------------|--|
| <b>General</b>    | Contaminated clothing should be removed and washed before being reused.  |
| <b>Inhalation</b> | Move the exposed person to fresh air at once. If respiratory problems, provide artificial respiration/oxygen.  |
| <b>Ingestion</b>  | Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention immediately.  |
| <b>Skin</b>       | Wash the skin immediately with soap and water.   |
| <b>Eyes</b>       | Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse. |

# Safety Data Sheet

## Methyltrioctylphosphonium methylcarbonate, 50% in Methanol

Revision Date: 20/05/2016

Date Issued: 2/8/2018

### 5 FIRE FIGHTING MEASURES

#### Extinguishing media

Use: Water spray, fog or mist. Carbon dioxides (CO<sub>2</sub>). Dry chemicals, sand, dolomite etc.

#### Special fire fighting procedures

Avoid water in straight hose stream, will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.

#### Unusual fire & explosion hazards

Fire causes formation of toxic gases.

#### Protective measures in fire

Wear self-contained breathing apparatus as combustion may produce hazardous fumes.

### 6 ACCIDENTAL RELEASE MEASURES

#### Personal precautions during spill

Wear protective clothing and avoid inhalation of vapor, skin or eye contact.

#### Precautions to protect environment

Avoid washing into water courses. Avoid contaminating public drains or water supply.

#### Spill cleanup methods

Avoid contact with skin or inhalation of spillage, dust or vapor, Avoid dust formation. Collect and reclaim or dispose in sealed containers in license waste. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

# Safety Data Sheet

## Methyltrioctylphosphonium methylcarbonate, 50% in Methanol

Revision Date: 20/05/2016

Date Issued: 2/8/2018

### 7 HANDLING AND STORAGE

|                            |  |
|----------------------------|--|
| <b>Usage precautions</b>   | Keep away from heat, sparks and open flame.<br>Do not use in confined spaces without adequate ventilation and/or respirator. |
| <b>Storage precautions</b> | Store at moderate temperatures in dry, well ventilated area.   |
| <b>Storage criteria</b>    | Chemical storage.  |

### 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

|                                 |  |
|---------------------------------|--|
| <b>Protective equipment</b>     | Safety goggles. Chemical resistant gloves.<br>Protective clothing.   |
| <b>Process control measures</b> | Provide eyewash station and safety shower.<br>Use engineering controls to reduce air contamination to permissible exposure levels. |
| <b>Ventilation</b>              | Provide adequate general and local exhaust ventilation.  |
| <b>Respirators</b>              | Use high efficiency particulate respirator with appropriate filter.  |
| <b>Other protection</b>         | Wear overalls and industrial shoes.  |

### 9 PHYSICAL AND CHEMICAL PROPERTIES

|                                |                      |
|--------------------------------|----------------------|
| <b>Appearance</b>              | Liquid.              |
| <b>Color</b>                   | Colorless to yellow. |
| <b>Odor/taste</b>              | Alcohol-like.        |
| <b>Flash Point</b>             | 26 °C                |
| <b>Explosion Limits, lower</b> | 6.00 vol %           |
| <b>Explosion Limits, upper</b> | 31.00 vol %          |

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Revision Date: 20/05/2016

Date Issued: 2/8/2018

**Solubility in water**

Miscible.

### 10 STABILITY AND REACTIVITY

**Stability**

No particular stability concerns.

**Conditions to avoid**

Avoid contact to strong oxidizers, bases and acids.

**Hazardous**

**Decomposition Products**

High temperatures generate: Corrosive gases/vapor/fumes of: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Nitrous gases (NO<sub>x</sub>).

### 11 TOXICOLOGICAL INFORMATION

**Ingestion**

not available.

**Skin**

not available.

**Eyes**

not available

**Data on the toxicity of this product are not available. Hazardous properties cannot be excluded.**

### 12 ECOLOGICAL INFORMATION

**Environmental hazards**

Avoid washing into water courses. Avoid contaminating public drains or water supply.

### 13 DISPOSAL CONSIDERATIONS

# Safety Data Sheet

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Revision Date: 20/05/2016

Date Issued: 2/8/2018

### Disposal method

Contact specialist disposal companies. Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical.

## 14 TRANSPORT INFORMATION

### ADR/RID

UN 1987, Class 3, PG III  
Alcohols, n.o.s. (Methyltrioctylphosphonium methylcarbonate 50% in Methanol)

### IMDG

UN 1987, Class 3, PG III  
Alcohols, n.o.s. (Methyltrioctylphosphonium methylcarbonate 50% in Methanol)  
Marine pollutant: No

### IATA

UN 1987, Class 3, PG III  
Alcohols, n.o.s. (Methyltrioctylphosphonium methylcarbonate 50% in Methanol)



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Revision Date: 20/05/2016

Date Issued: 2/8/2018

### 15 REGULATORY INFORMATION

#### Text of H-code(s) and R-phrases mentioned in Section 3

|              |   |
|--------------|---|
| Acute Tox.   | Acute toxicity  |
| Eye Irrit.   | Eye irritation  |
| Flam. Liq.   | Flammable liquids   |
| H225         | Highly flammable liquid and vapour.   |
| H301         | Toxic if swallowed.   |
| H311         | Toxic in contact with skin.   |
| H315         | Causes skin irritation.   |
| H319         | Causes serious eye irritation.  |
| H331         | Toxic if inhaled.   |
| H335         | May cause respiratory irritation.   |
| H370         | Causes damage to organs.  |
| Skin Irrit.  | Skin irritation   |
| STOT SE      | Specific target organ toxicity - single exposure  |
| F            | Highly flammable  |
| R11          | Highly flammable.   |
| R23/24/25    | oxic by inhalation, in contact with skin and if swallowed.  |
| R36/37/38    | Irritating to eyes, respiratory system and skin.  |
| T            | Toxic   |
| R39/23/24/25 | Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. |
| Xi           | Irritant  |

#### Country specific information

# Safety Data Sheet

## Methyltrioctylphosphonium methylcarbonate, 50% in Methanol

Revision Date: 20/05/2016

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**Germany**

WGK: 3

(Self-Classification)

### 16 OTHER INFORMATION

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