

according to Regulation (EC) No 1907/2006 **TributyImethylphosphonium methyl sulfate**

Revision Date: 9/4/2025 Version: 3

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

1.1 Product identifier

Product name Tributylmethylphosphonium methyl sulfate

Product code IN-0013

CAS 69056-62-8

EC-Number 629-127-5

REACH No. A registration number is not available for this

substance as the substance or its uses are

exempted from registration, the annual tonnage

does not require a registration or the registration

is envisaged for a later registration deadline.

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

against

Identified uses Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Supplier loLiTec

Ionic Liquids Technologies GmbH

Im Zukunftspark 9

D - 74076 Heilbronn

Germany

Telephone +49 (0)7131-89839-0

Fax +49 (0)7131-89839-109

Email msds@iolitec.de

1.4 Emergency telephone number

Emergency telephone +49 (0)151-41255671

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2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULTATION (EC) No 1272/2008)

Skin sensitization (Category 1)

Germ cell mutagenicity (Category 1B)

Carcinogenicity (Category 2)

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



Pictogram

Signal word Danger

Additional Labelling Element: "Restricted for professional users."

H-phrases

H317 May cause an allergic skin reaction.

H340 May cause genetic defects.

H351 Suspected of causing cancer.

P phrases

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.

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P272		Contaminated work clothing should not be
		allowed out of the workplace.
P280		Wear protective gloves/ protective clothing/
		eye protection/ face protection.
P302 + P352		IF ON SKIN: Wash with soap and water.
P308 + P313		IF exposed or concerned: Get medical
		advice/attention.
P333 + P313		If skin irritation or a rash occurs: Get medical
		advice/attention.
P362 + P364		Take off contaminated clothing and wash it
		before reuse.
P405		Store locked up.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

3 COMPOSITION/INFORMATION ON INGREDIENTS

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3.1 Substances

Tributylmethylphosphonium methyl sulfate

CAS: 69056-62-8

EC-Number: 629-127-5

Ingredient nameContentsClassificationTributyImethyIphosphonium methyI sulfate>95%Substance not yet fully tested!DimethyI sulfate<1%</td>Carc. 1B, Muta. 2, Acute Tox. 2,
Skin Corr. 1B, Skin Sens 1

4 FIRST AID MEASURES

4.1 Description of first aid measures

General

Take off contaminated clothing and wash it before reuse. Contaminated clothing should not be allowed out of the workplace.

Inhalation

Move the exposed person to fresh air at once. If respiratory problems, provide artificial respiration/oxygen. Get medical attention if you feel unwell.

Ingestion

Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention.

Skin

Wash the skin immediately with soap and water. If skin irritation or rash occurs: Get medical attention.

Eyes

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention. Continue to rinse.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

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No data available

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use: Water spray, fog or mist. Carbon dioxides (CO₂). Dry chemicals, sand, dolomite etc.

5.2. Special hazards arising from the substance or mixture

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. Fire causes formation of toxic gases.

5.3. Advice for firefighters

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

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

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.

6.4 Reference to other sections

For disposal see section 13.

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7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat, sparks and open flame. Do not use in confined spaces without adequate ventilation and/or respirator

7.2 Conditions for safe storage, including any incompatibilities

Store at moderate temperatures in dry, well-ventilated area. Chemical storage.

Storage class (TRGS 510): LGK 6.1C

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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Respiratory protection

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For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Physical state Low-melting solid. b) Color White to yellow. c) Odor No characteristic odor d) Melting point/freezing point 34°C no data available e) Initial boiling point f) Flammability no data available g) Upper/lower explosive limits no data available no data available h) Flash point no data available i) Autoignition temperature j) Decomposition temperature no data available k) pH no data available

384 mm²/s I) Kinematic viscosity

m) Water solubility no data available n) Partition coefficient no data available o) Vapor pressure no data available

1.066 g/cm³ p) Density

q) Relative vapor density no data available no data available r) Particle characteristics no data available s) Explosive properties t) Oxidizing properties no data available



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9.2 Other safety information

No data available

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

No particular stability concerns.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Avoid contact to strong oxidizers and bases.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

High temperatures generate: Corrosive gases/ vapor/ fumes of: Carbon dioxide (CO₂).

Carbon monoxide (CO). Phosphorous oxides (POx), sulfurous oxides (SOx).

11 TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

May cause an allergic skin reaction. (Derived from Dimethylsulfate)

Germ cell mutagenicity

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May cause genetic defects. (Derived from Dimethylsulfate)

Carcinogenicity

Suspected of causing cancer. (Derived from Dimethylsulfate)

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation no data availableIngestion no data available

Skin May cause an allergic skin reaction.

Eves no data available

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

11.2 Additional Information

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU)2018/605 at levels of 0.1% or higher.

Additional Information

Not available

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12 ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU)2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Contact specialist disposal companies. Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical. Do not dispose in communal waste water.

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14 TRANSPORT INFORMATION

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: 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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

no data available

Country specific information

Germany WGK: 3 (Self-Classification)

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16 OTHER INFORMATION

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