

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Version no. : 2.0  
Prepared on : 18.03.2026  
Revised on : -

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

### 1.1 Product identifiers

**Product name** Butyl methyl ether  
**Product Number** PSR50217  
**Brand** PureSynth research chemicals  
**CAS No.** 628-28-4

### 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

**Company** PureSynth Research Chemicals GmbH  
64683 Einhausen Marie-Curie-Str. 3, Germany

### 1.4 Emergency telephone number

**Worldwide Helpline No.:** 1800-8908-260

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

Flammable liquids (Category 2), H225

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 Label elements

**Labelling according Regulation (EC) No 1272/2008**

**Pictogram**



**Signal word** Danger

**Hazard statement(s)**

H225 Highly flammable liquid and vapor.

**Precautionary statement(s)**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.

**Supplemental Hazard information (EU)**

EUH019

May form explosive peroxides.

### 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.

## SECTION 3: Composition / information on ingredients

### 3.1 Substances

Common names & Synonyms	Mol. formula	CAS number
α-Methoxybutane, 1-Methoxybutane, Methyl butyl ether, Methyl n-butyl ether, n-Butyl methyl ether	C <sub>5</sub> H <sub>12</sub> O	628-28-4
Component	Classification	Concentration
Butyl methyl ether	-	-

## SECTION 4: First aid measures

### Description of first aid measures

<b>General advice</b>	Show this material safety data sheet to the doctor in attendance.
<b>If inhaled</b>	After inhalation: fresh air.
<b>In case of skin contact</b>	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
<b>In case of eye contact</b>	After eye contact: rinse out with plenty of water. Remove contact lenses.
<b>If swallowed</b>	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.
<b>Most important symptoms and effects, both acute and delayed</b>	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
<b>Indication of any immediate medical attention and special treatment needed</b>	No data available

## SECTION 5: Firefighting measures

<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Foam Carbon dioxide (CO <sub>2</sub> ) Dry powder
<b>Unsuitable extinguishing media</b>	For this substance/mixture no limitations of extinguishing agents are given.
<b>Special hazards arising from the substance or mixture</b>	Carbon oxides Combustible. Pay attention to flashback. Vapours are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire.
<b>Advice for fire-fighters</b>	Forms explosive mixtures with air at ambient temperatures. In the event of fire, wear self-contained breathing apparatus.

**Further information**

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**SECTION 6: Accidental release measures**

<b>Personal precautions, protective equipment and emergency procedures</b>	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
<b>Environmental precautions</b>	Do not let product enter drains. Risk of explosion.
<b>Methods and materials for containment and cleaning up</b>	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.
<b>Reference to other sections</b>	For disposal see section 13.

**SECTION 7: Handling and storage**

<b>Precautions for safe handling</b>	<p><b>Advice on protection against fire and explosion</b> Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.</p> <p><b>Hygiene measures</b> Change contaminated clothing. Wash hands after working with substance. For precautions see section 2.2.</p>
<b>Conditions for safe storage, including any incompatibilities</b>	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Store under inert gas. Air sensitive. Test for peroxide formation periodically and before distillation.
<b>Specific end use(s)</b>	Storage class (TRGS 510): 3: Flammable liquids Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**SECTION 8: Exposure controls / Personal protection**

<b>Control parameters</b>	Ingredients with workplace control parameters
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	No data available
<b>Personal protective equipment:</b>	
<b>Eye / face protection</b>	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses
<b>Body protection</b>	Flame retardant antistatic protective clothing.
<b>Hand Protection</b>	No data available
<b>Respiratory protection</b>	required when vapours/aerosols are generated. Recommended Filter type: Filter type ABEK The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
<b>Control of environmental exposure</b>	Do not let product enter drains. Risk of explosion.

**SECTION 9: Physical and chemical properties**

<b>Appearance</b>	Form: Liquid Colour: Colourless
<b>Odour</b>	No data available
<b>pH - Value</b>	No data available
<b>Density</b>	0.744 g/mL at 25 °C - lit.
<b>Boiling Point</b>	70 - 71 °C - lit.
<b>Melting Point</b>	-115.5 °C
<b>Solubility in water</b>	No data available
<b>Flash point</b>	-10 °C - closed cup
<b>Vapour pressure</b>	185 hPa at 25 °C
<b>Auto -ignition temperature</b>	No data available
<b>Vapour density</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Partition coefficient: n- octanol / water</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	Not classified as explosive
<b>Upper / lower flammability or explosive limits</b>	No data available
<b>Oxidizing properties</b>	No data available

**Other safety information:** No data available

## SECTION 10: Stability and reactivity

<b>Reactivity</b>	Formation of peroxides possible. Vapours may form explosive mixture with air.
<b>Chemical stability</b>	The product is chemically stable under standard ambient conditions (room temperature).
<b>Possibility of hazardous reactions</b>	Violent reactions possible with: strong oxidising agents
<b>Condition to avoid</b>	Warming. Moisture.
<b>Incompatible materials</b>	Oxidizing agents, Strong acids
<b>Hazardous decomposition products</b>	Peroxides In the event of fire: see section 5

## SECTION 11: Toxicological information

<b>Acute toxicity</b>	Oral: No data available Inhalation: No data available Dermal: No data available
<b>Skin corrosion/irritation</b>	Remarks: No data available
<b>Serious eye damage/eye irritation</b>	Remarks: No data available
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available

<b>Specific target organ toxicity - single exposure</b>	No data available
<b>Specific target organ toxicity - repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>Additional Information</b>	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. RTECS: KN5240000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12: Ecological information

### Toxicity

Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to algae	No data available
Toxicity to bacteria	No data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	No data available

**Persistence and degradability** No data available

**Bioaccumulation** No data available

**Mobility in soil** No data available

**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.

**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.

**Other adverse effects** No data available

## SECTION 13: Disposal considerations

**Waste treatment methods** No data available

**Contaminated packaging** No data available

## SECTION 14: Transport information

	UN no.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>ADR / RID</b>	2350	BUTYL METHYL ETHER	3	II	no
<b>IMDG</b>	2350	BUTYL METHYL ETHER	3	II	no
<b>IATA</b>	2350	Butyl methyl ether	3	II	no

## SECTION 15: Regulatory information

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

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

**National legislation**

P5c

FLAMMABLE LIQUIDS

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

**15.2 Other regulations**

Take note of Dir 94/33/EC on the protection of young people at work.

**15.3 Chemical safety assessment**

No data available

**SECTION 16: Other information**

The information in this SDS is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The user must be determined suitability of this information for his application.