

## SAFETY DATA SHEET

pursuant to Regulation (EC) No 1907/2006 of the European Parliament  
and of the Council (REACH), as amended

### Methyl Alcohol

Date of creation	01.04.2016	Version number	8.0
Date of revision	10.05.2023		

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

##### 1.1. Product identifier

Methyl
alcohol Substance/mixture
Substance
Chemical name
Methanol
CAS number
67-56-1
Index number
603-001-00-X
EC number (EINECS)
200-659-6
Registration number
01-2119433307-44-xxxx
Other names of the substance
Methanol, methylated spirit, carbinol

##### 1.2. Relevant identified uses of the substance or mixture and non-recommended uses Identified uses of the substance

Chemical production, analytical chemistry, laboratory synthesis, industrial applications.

##### Non-recommended uses of the substance

The product must not be used in ways other than those specified in Section 1.

##### 1.3. Details of the supplier of the safety data sheet

###### Supplier

Name or business name	Ing. Petr Švec - PENTA s.r.o.
Address	Radiová 1122/1, Prague 10, 102 00
	Czech Republic
Identification number (ID number)	02096013
TAX ID	CZ02096013
Phone	+420 226 060 681
Email	info@pentachemicals.eu
Website address	www.pentachemicals.eu

###### E-mail address of the competent person responsible for the safety data sheet

Name	Ing. Petr Švec - PENTA s.r.o.
Email	info@pentachemicals.eu

##### 1.4. Emergency telephone number

Toxicology Information Centre, Department of Occupational Medicine, General University Hospital in Prague (24-hour service) +420 224 91 92 93, 224 915 402. 112

#### SECTION 2: Hazard identification

##### 2.1. Classification of the substance or mixture

###### Classification of the substance according to Regulation (EC) No 1272/2008

The substance is classified as hazardous.

Flam. Liq. 2, H225  
Acute Tox. 3,  
H301+H311+H331 STOT SE 1,  
H370

The full text of all classifications and H-phrases is given in Section 16.

###### Most serious adverse physicochemical effects

Highly flammable liquid and vapour.

###### Most serious adverse effects on human health and the environment

Causes organ damage. Toxic by ingestion, skin contact or inhalation.

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#### 2.2. Elements of marking

##### Hazard warning symbol



##### Signal word

Danger

##### Dangerous substance

Methanol  
(Index: 603-001-00-X; CAS: 67-56-1)

##### Standard hazard statements

H225 Highly flammable liquid and vapour.  
H370 Causes damage to organs.  
H301+H311+H331 Toxic by ingestion, skin contact or inhalation.

##### Instructions for safe handling

P210 Protect from heat, hot surfaces, sparks, open flames and other sources of ignition.  
No smoking.  
P233 Keep the packaging tightly closed.  
P260 Do not inhale vapours.  
P280 Wear protective gloves/protective clothing.  
P301+P310 IF INGESTED: Call a doctor immediately.  
P308+P311 IF exposed or suspected: call a doctor.

#### 2.3. Other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. The substance does not meet the criteria for PBT or vPvB substances in accordance with Annex XIII, Regulation (EC) No 1907/2006 (REACH), as amended.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

##### Chemical characteristics

The substance below.

Identification numbers	Name of substance	Content in % by weight	Classification according to Regulation (EC) No. 1272/2008	Remarks
Index: 603-001-00-X CAS: 67-56-1 EC: 200-659-6 Registration number: 01-2119433307-44-xxxx	<b>the main component of the substance</b> Methanol	≥99	Flam. Liq. 2, H225 Acute Tox. 3, H301, H311, H331 STOT SE 1, H370 Specific concentration limit: STOT SE 1, H370: C ≥ 10 % STOT SE 2, H371: 3 % ≤ C < 10 %	1, 2, 3

##### Notes

- 1 A substance for which exposure limits are set.
- 2 A substance for which there are biological limits.
- 3 The use of the substance is restricted in Annex XVII of

REACH The full text of all classifications and H-phrases is

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#### SECTION 4: Instructions for first aid

##### 4.1. Description of first aid

Take care of your own safety. If you experience any health problems or if you are in doubt, notify your doctor and provide him/her with the information in this MSDS. In case of unconsciousness, place the victim in a stable position on his/her side, with head slightly inclined, and ensure airway patency, never induce vomiting. If the casualty vomits on his/her own, take care not to inhale vomit. In life-threatening conditions, resuscitate the casualty first and arrange for medical assistance. Respiratory arrest - perform artificial respiration immediately. Cardiac arrest - immediately perform indirect cardiac massage.

##### If inhaled.

Immediately discontinue exposure, transport the affected person to fresh air. Take care of your own safety, do not let the victim walk! Beware of contaminated clothing. Depending on the situation, call emergency services and arrange medical treatment due to the frequent need for follow-up for at least 24 hours.

##### In contact with skin

Remove stained clothing. Before or during washing, remove rings, watches, bracelets, if they are in the area of the affected skin. Rinse affected areas with a stream of preferably lukewarm water for 10-30 minutes; do not use a brush, soap or neutraliser. Call emergency services as appropriate and always ensure medical treatment. Rinse skin with water or shower.

##### In case of eye contact

Immediately flush the eyes with running water, open the eyelids (even by force); if the affected person has contact lenses, remove them immediately. Do not neutralise under any circumstances! Rinse for 10-30 minutes from the inner corner to the outer corner, so that the other eye is not affected. Depending on the situation, call emergency services or arrange medical treatment as soon as possible. Everyone must be sent for examination, even in the case of a small lesion.

##### When ingested

INDUCE VOMITING! Only induce vomiting in a conscious person within 1 hour after ingestion. If you are not sure whether to induce vomiting, contact the Poison Information Centre and provide the substance or composition information from the original packaging or the product safety data sheet. AFTER INHALATION OF TOXIC OR HIGHLY TOXIC SUBSTANCES, TAKE 10-20 DILUTED TABLETS OF ACTIVE COAL DISSOLVED IN WATER WITHIN 5 MINUTES - regardless, whether the vomiting was induced. Call emergency services.

##### 4.2. Most important acute and delayed symptoms and effects if inhaled Cough, headache. In contact with skin not specified

Not expected in case of eye contact.

If swallowed Irritation, nausea.

##### 4.3. Instructions for immediate medical assistance and special treatment

Symptomatic treatment.

#### SECTION 5: Fire-fighting measures

##### 5.1. Extinguishing agents Suitable extinguishing agents

Alcohol-resistant foam, carbon dioxide, powder, water splinter stream, water mist.

##### Unsuitable extinguishing agents

Water - full stream.

##### 5.2. Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide and other toxic gases can be produced during a fire. Inhalation of hazardous decomposition (pyrolysis) products can cause serious damage to health.

##### 5.3. Instructions for firefighters

Separate breathing apparatus and chemical protective clothing only if personal (close) contact with the chemical is likely. Use an isolation breathing apparatus and full body protective suit. Cool closed containers of product near fire with water. Do not allow contaminated fire extinguishing agent to escape into drains, surface water or groundwater.

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## SECTION 6: Precautions in the event of accidental spillage

## 6.1. Measures to protect persons, protective equipment and emergency procedures

Ensure sufficient ventilation. The fabric is flammable. Remove all sources of ignition. Wear personal protective equipment. Follow the instructions in Sections 7 and 8. Do not breathe fog/vapour/aerosols. Avoid contact with skin and eyes.

## 6.2. Environmental protection measures

Prevent soil contamination and leakage to surface or groundwater.

## 6.3. Methods and materials for containment and cleaning

Cover the spilled product with suitable (non-combustible) absorbent material (sand, diatomaceous earth, soil and other suitable absorbent materials), collect in tightly closed containers and dispose of as described in Section 13. In the event of a large spill, notify the fire department and other competent authorities. After removal of the product, wash the contaminated area with plenty of water. Do not use solvents.

## 6.4. Link to other sections

See sections 7, 8 and 13.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Prevent the formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the maximum permissible concentrations for the working atmosphere. Use the product only where it does not come into contact with open flames and other ignition sources. Use non-sparking tools. Antistatic clothing and footwear are recommended. Do not breathe mist/vapour/aerosols. Avoid contact with skin and eyes. Do not smoke. Wash hands and affected body parts thoroughly after handling. Do not eat, drink or smoke while using this product. Use only outdoors or in well-ventilated areas. Wear personal protective equipment according to section 8. Observe applicable health and safety legislation. Ground and secure the packaging and sampling device. Use electrical/ventilation/lighting equipment in explosive atmospheres. Take precautions against static electricity discharges.

## 7.2. Conditions for the safe storage of substances and mixtures, including incompatible substances and mixtures

Store in tightly sealed containers in cool, dry and well-ventilated places. Do not expose to sunlight. Store locked. Keep the container tightly closed. Keep cool.

Storage class

6,CB

## Specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they can form an explosive mixture when mixed with air.

## 7.3. Specific end use(s)

n/a

## SECTION 8: Exposure limitation/personal protective equipment

## 8.1. Control parameters

Czech Republic  
195/2021 Coll.

Government Regulation No

Name of substance (constituent)	Type	Value	Conversion to ppm	Note
Methanol (CAS: 67-56-1)	PEL	250 mg/m <sup>3</sup>	0,751	skin penetration of the factor is significant during exposure
	NPK-P	1000 mg/m <sup>3</sup>	0,751	

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#### European Union 2006/15/EC

#### Commission Directive

Name of substance (constituent)	Type	Value	Note
Methanol (CAS: 67-56-1)	OEL 8 hours	260 mg/m <sup>3</sup>	Leather
	OEL 8 hours	200 ppm	

#### Biological limit values

#### Czech Republic

#### Decree No. 107/2013 Coll.

Name	Parameter	Value	Material tested	Time of sampling
Methanol (CAS: 67-56-1)	Methanol	15 mg/l	The Power of	End of shift
		0,47 mmol/l		

#### 8.2. Limiting exposure

Remove contaminated clothing and wash before reuse. Observe the usual occupational health precautions and in particular good ventilation. This can only be achieved by local extraction or effective general ventilation. Do not eat, drink or smoke while working. Wash your hands thoroughly with soap and water after work and before breaks for eating and resting.

##### Eye and face protection

Protective goggles or face shield (depending on the nature of the work being done).

##### Skin protection

Hand protection: Protective gloves resistant to the product (butyl rubber, Viton). Follow the recommendations of the specific glove manufacturer when selecting the appropriate thickness, material and permeability. Wash thoroughly if skin becomes dirty. Other protection: protective work clothing.

##### Respiratory protection

Respirator. Mask with filter against organic vapours in poorly ventilated environments. Isolation breathing apparatus when exposure limits for substances are exceeded or in poorly ventilated environments.

##### Thermal hazards

Not specified.

##### Limiting environmental exposure

Take the usual precautions to protect the environment, see section 6.2.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Grouping	Liquid
Colour	Colourless
Odour	Alcoholic
Melting point/freezing point	-98 °C
Boiling point or initial boiling point and boiling point range	65 °C
Flammability	Highly flammable liquid and vapour.
Lower and upper explosive limits	
lower	5,5 %
Top	44 %
Flash point	11 °C
Autoignition temperature	not available
Decomposition temperature	figure not available
pH	data not available
Kinematic viscosity	not available
Solubility in water	not available

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Partition coefficient n-octanol/water (logarithmic value)	-0,77
Steam pressure	128 hPa
Density and/or relative density	
Density	0,791 g/cm <sup>3</sup>
relative density	data not available
Relative vapour density	figure not available
Particle characteristics	data not available

## 9.2. Further information

Evaporation rate	figure not available
Ignition temperature	455 °C

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

The substance is highly flammable.

## 10.2. Chemical stability

Under normal conditions, the product is stable.

## 10.3. Possibility of dangerous reactions

They are unknown.

## 10.4. Conditions to be avoided

Under normal use, the product is stable and decomposition does not occur. Protect from flames, sparks, overheating and freezing.

## 10.5. Incompatible materials

Protect from strong acids, alkalis and oxidizing agents.

## 10.6. Hazardous decomposition products

They do not arise under normal use. Hazardous products such as carbon monoxide and carbon dioxide are formed at high temperatures and in case of fire.

## SECTION 11: Toxicological information

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data are available for the substance. Inhalation of solvent vapours in excess of the occupational exposure limits may result in acute inhalation poisoning, depending on the level of concentration and the duration of exposure.

## Acute toxicity

Causes organ damage. Toxic by ingestion, skin contact or inhalation.

Methanol					
The path of exposure	Parameter	Value	Exposure time	Type	Gender
Oral	LD <sub>50</sub>	100.1 mg/kg		Rat	
Dermally	LD <sub>50</sub>	300,1 mg/kg		Rat	
Inhalation (vapour)	LC <sub>50</sub>	3,1 mg/l	4 hours	Rat	

## Corrosivity/irritation to skin

Based on the available data, the criteria for classification are not met.

## Serious eye damage/irritation

Based on the available data, the criteria for classification are not met.

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#### Respiratory sensitisation / skin sensitisation

Based on the available data, the criteria for classification are not met.

#### Mutagenicity in germ cells

Based on the available data, the criteria for classification are not met.

#### Carcinogenicity

Based on the available data, the criteria for classification are not met.

#### Reproductive toxicity

Based on the available data, the criteria for classification are not met.

#### Specific target organ toxicity - single exposure

Causes organ damage.

#### Specific target organ toxicity - repeated exposure

Based on the available data, the criteria for classification are not met.

#### Danger if inhaled

Based on the available data, the criteria for classification are not met.

#### 11.2. Information on other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### SECTION 12: Environmental information

#### 12.1. Toxicity

n/a

##### Acute toxicity

Methyl Alcohol				
Parameter	Value	Exposure time	Type	Environment
EC <sub>50</sub>	>10000 mg/l	48 hours	Daphnia (Daphnia magna)	

Methanol				
Parameter	Value	Exposure time	Type	Environment
LC <sub>50</sub>	15400 mg/l	96 hours	Fish (Lepomis macrochirus)	
EC <sub>50</sub>	>10 000 mg/kg	48 hours	Daphnia (Daphnia magna)	

#### 12.2. Persistence and degradability

n/a

##### Biodegradability

Methyl Alcohol					
Parameter	Method	Value	Exposure time	Environment	Result
					Easily biodegradable

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Methanol					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301D	99 %		Sweet water	Easily biodegradable

**12.3. Bioaccumulation potential**

Not specified.

**12.4. Mobility in soil**

Not specified.

**12.5. Results of PBT and vPvB assessment**

The product does not contain substances meeting the criteria for PBT or vPvB substances in accordance with Annex XIII, Regulation (EC) No 1907/2006 (REACH), as amended.

**12.6. Endocrine disrupting properties**

With regard to non-target organisms, the substance does not have endocrine disrupting properties as it does not meet the criteria set out in Annex B to Regulation (EU) 2017/2100.

**12.7. Other adverse effects**

Not specified.

**SECTION 13: Disposal instructions****13.1. Waste management methods**

Danger of environmental contamination, proceed according to Act No. 541/2020 Coll. on Waste, as amended, and the implementing regulations on waste disposal. Follow the applicable waste disposal regulations. Place the unused product and contaminated packaging in marked waste collection containers and hand it over for disposal to an authorised waste disposal contractor (specialised company). Do not dispose of unused product down the drain. It must not be disposed of with municipal waste. Empty packaging may be used for energy recovery in an incinerator or disposed of in a landfill of the appropriate classification. Completely cleaned packaging may be sent for recycling.

**Waste legislation**

Act No. 541/2020 Coll., on waste, as amended. Decree No. 8/2021 Coll., on the Waste Catalogue and the assessment of waste properties (Waste Catalogue). Decision 2000/532/EC establishing a list of wastes, as amended. Act No 545/2020 Coll. amending Act No 477/2001 Coll. on packaging and amending certain acts (Packaging Act), as amended. Decree No 273/2021 Coll., on details of waste management, as amended.

**SECTION 14: Transport information****14.1. UN number or ID number**

UN 1230

**14.2. Official (UN) name for transport**

METHANOL

**14.3. Hazard class(es) for transport**

3 Flammable liquids

**14.4. Packaging group**

II - substances of medium hazard

**14.5. Environmental hazard**

not relevant

**14.6. Special precautions for users**

Reference in sections 4 to 8.

**14.7. Maritime bulk transport according to IMO instruments**

not relevant



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#### Additional information

Hazard identification number

336

UN number

1230

Classification code

FT1

Safety signs

3+6.1



#### Air transport - ICAO/IATA

Packing instructions passenger

352

Packing instructions kargo

364

#### Maritime transport - IMDG

EmS (emergency plan)

F-E, S-D

### SECTION 15: Information on regulations

#### 15.1. Safety, health and environmental regulations/specific legislation relating to the substance or mixture

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93, Commission Regulation (EC) No 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council, as amended. Act No 350/2011 Coll., on chemical substances and chemical mixtures and amending certain acts (Chemical Act). Act No 258/2000 Coll., on the protection of public health, as amended. Government Regulation No. 361/2007 Coll., laying down conditions for occupational health protection, as amended. Decree No. 415/2012 Coll., on the permissible level of pollution and its detection and on the implementation of certain other provisions of the Air Protection Act, as amended. Act No 541/2020 Coll., on waste, as amended. Act No 201/2012 Coll., on air protection, as amended. Decree No. 432/2003 Coll., laying down the conditions for categorising work, limit values for indicators of biological exposure tests, conditions for the collection of biological material for the performance of biological exposure tests and the requirements for reporting work with asbestos and biological agents, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### Restrictions under Annex XVII, Regulation (EC) No 1907/2006 (REACH), as amended

Methanol

Restrictions	Restrictive conditions
69	Shall not be placed on the market to the general public after 9 May 2019 in windscreen washer fluid or windscreen defrosting fluid at a concentration equal to or greater than 0,6 % by weight.

#### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

### SECTION 16: Further information

#### List of standard hazard statements used in the safety data sheet

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic by inhalation.
H370	Causes damage to organs.

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H371 May cause damage to organs.

H301+H311+H331 Toxic by ingestion, skin contact or inhalation.

#### List of safety instructions used in the safety data sheet

P210 Protect from heat, hot surfaces, sparks, open flames and other sources of ignition.  
No smoking.

P233 Keep the packaging tightly closed.

P260 Do not inhale vapours.

P280 Wear protective gloves/protective clothing.

P301+P310 IF INGESTED: Call a doctor immediately.

P308+P311 IF exposed or suspected: call a doctor.

#### Other information relevant to human health and safety

The product shall not - without the specific consent of the manufacturer/importer - be used for any purpose other than those specified in section 1. The user is responsible for compliance with all relevant health protection regulations.

#### Legend to abbreviations and acronyms used in the safety data sheet

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

BCF Bioconcentration factor

CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

EC<sub>50</sub> Concentration of a substance at which 50% of the population is affected

EINECS European Inventory of Existing Commercial Chemicals

EmS Contingency plan

ES The EC number is the numerical identifier of the substances on the EC list

EU European Union

EuPCS European Product Categorisation System

IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships  
Carrying Dangerous Chemicals in Bulk

ICAO International Civil Aviation Organisation

IMDG International maritime transport of dangerous goods

IMO International Maritime Organisation

INCI International Nomenclature of Cosmetic Ingredients

ISO International Organization for Standardization

IUPAC International Union of Pure and Applied Chemistry

LC<sub>50</sub> The lethal concentration of a substance at which 50% of the population can be  
expected to die

LD<sub>50</sub> The lethal dose of a substance that can be expected to cause the death of 50% of the  
population

log K<sub>ow</sub> Octanol-water partition coefficient

NPK Maximum permissible concentration

OEL Occupational exposure limits

PBT Persistent, bioaccumulative and toxic

PEL Permissible Exposure Limit

ppm Number of particles per million (millionth)

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Agreement concerning the carriage of dangerous goods by rail

UN Four-digit identification number of the substance or article taken from the UN Model  
Regulations

UVCB Substance of unknown or variable composition, complex reaction product or  
biological material

VOC Volatile organic compounds

vPvB Highly persistent and highly bioaccumulative

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Flam. Liq.

Flammable liquid

STOT SE

Specific target organ toxicity - single exposure

#### Instructions for training

Familiarize workers with recommended use, mandatory protective equipment, first aid and prohibited product handling.

#### Recommended restrictions of use

n/a

#### Information on the sources of data used in the compilation of the safety data sheet

Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH), as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council, as amended. Act No 350/2011 Coll., on chemicals and chemical mixtures, as amended. Data from the manufacturer of the substance/mixture, if available - data from the registration dossier.

#### Changes made (which information has been added, deleted or modified)

Version 8.0 replaces the BL version of 21.2.2023. Changes have been made in sections 2 and 16.

Classification procedure - calculation method.

#### Statement

The safety data sheet contains information to ensure occupational health and safety and environmental protection. The information given is in accordance with the current state of knowledge and experience and complies with the applicable legislation. They cannot be taken as a guarantee of the suitability and applicability of the product for a particular application.