

**SAFETY DATA SHEET**

According to 1907/2006/EC, Article 31

Revision number: 2

Revision date: 04/11/2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifiers**

Product name: Methanol [for Spectrophotometry]
Product code: M0097

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

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet**Supplier:**

TCI EUROPE N.V.
 Boerenveldseweg 6
 Haven 1063
 B-2070 Zwijndrecht
 Telephone: +32(0)3 735 07 00
 E-mail: sales-eu@tcichemicals.com

1.4 Emergency telephone number: +32(0)70 245 245

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Flammable liquids	Category 2
Acute toxicity (Oral)	Category 3
Acute toxicity (Dermal)	Category 3
Acute toxicity (Inhalation)	Category 3
Specific target organ toxicity - Single exposure [Category 1]	Organs

2.2 Label elements**Pictograms or hazard symbols****Signal word**

Danger

Hazard statements

H225-Highly flammable liquid and vapour.
 H301+H311+H331-Toxic if swallowed, in contact with skin or if inhaled.
 H370-Causes damage to organs.

Precautionary statements

P260-Do not breathe mist, vapours or spray.
 P280-Wear protective gloves, protective clothing, eye protection.
 P301+P310+P330-IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth.
 P302+P352+P312+P361+P364-IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse.
 P304+P340+P311-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor.
 P308+P311-If exposed or concerned: Call a POISON CENTER or doctor.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable
vPvB: Not applicable

SECTION 3: Composition/information on ingredients

3.1 Substances

Components:	Methanol [for Spectrophotometry]
Percent:	>99.8%(GC)
CAS RN:	67-56-1
EC-No:	200-659-6
Synonyms:	Methyl Alcohol
Chemical Formula:	CH ₄ O

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Call a POISON CENTER or doctor/physician.
Ingestion:	Call a POISON CENTER or doctor/physician. Rinse mouth.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, foam, water in large amounts, carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so. When extinguishing fire, be sure to wear personal protective equipment

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc

6.2 Environmental precautions

Prevent product from entering drains

6.3 Methods and materials for containment and cleaning up

Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid all contact!

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
ACGIH TLV(TWA):	200 ppm (skin)
ACGIH TLV(STEL):	250 ppm (skin)
OSHA PEL(TWA):	200 ppm
JSOH OELs(TWA):	200 ppm (skin)
8.2 Exposure controls	Install a closed system or local exhaust. Also install safety shower and eye bath.
Respiratory protection:	Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless
Odour:	Characteristic
Odour threshold:	100 ppm
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/range:	64°C
Flash point:	12°C
Evaporation rate(Butyl Acetate=1):	No data available
Flammability(solid, gas):	No data available
Flammability or explosive limits:	
Lower:	5.5%
Upper:	44%
Vapour pressure:	12.3kPa/20°C
Vapour density:	1.1
Relative density:	0.79
Solubility(ies):	
[Water]	Miscible
[Other solvents]	
Miscible:	Ether, Benzene, Ethanol, Many organic solvents
Partition coefficient:	-0.82/-0.66
n-octanol/water:	
Autoignition temperature:	464°C
Decomposition temperature:	No data available
Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available
9.2 Other safety information	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under proper conditions.
10.3 Possibility of hazardous reactions	No special reactivity has been reported.
10.4 Conditions to avoid	Spark, Open flame, Static discharge
10.5 Incompatible materials	Oxidizing agents, Acid chlorides, Acid anhydrides, Reducing agents
10.6 Hazardous decomposition products	Carbon dioxide, Carbon monoxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute Toxicity:	ihl-hmn TCLo:86000 mg/m ³ ihl-rat LC50:64000 ppm/4H orl-hmn LDLo:143 mg/kg orl-rat LD50:5600 mg/kg skn-rbt LD50:15800 mg/kg
Skin corrosion/irritation:	skn-rbt 20 mg/24H MOD
Serious eye damage/irritation:	eye-rbt 100 mg/24H MOD
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	dni-hmn-lym 300 mmol/L mmo-mus-lym 7900 mg/L (+S9) mmo-smc 12 pph (-S9)
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	ihl-rat TCLo:2.6 mg/m ³ (1-22D preg) ihl-rat TCLo:15000 ppm/7H (7-19D preg) orl-rat TDLo:5200 uL/kg (10D preg) orl-rat TDLo:200 ppm/20H (78W male)
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available
RTECS Number:	PC1400000

SECTION 12: Ecological information

12.1 Toxicity

Fish:	48h LC50:1400 mg/L (<i>Oryzias latipes</i>) 96h LC50:20100 mg/L (<i>Oncorhynchus mykiss</i>)
Crustacea:	48h EC50:24500 mg/L (<i>Daphnia magna</i>)
Algae:	No data available

12.2 Persistence and degradability 92 % (by BOD) , 100 % (by GC) , 99 % (by TOC)

12.3 Bioaccumulative potential <10

12.4 Mobility in soil

Log Pow:	-0.82/-0.66
Soil adsorption (Koc):	2.75
Henry's Law (PaM³/mol):	0.46

12.5 Results of PBT and vPvB assessment

PBT:	Not applicable
vPvB:	Not applicable

12.6 Other adverse effects No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. Observe all federal, state and local regulations when disposing of the substance.

SECTION 14: Transport information

14.1 UN number	1230
14.2 UN proper shipping name	
ADR/RID	Methanol
IMDG/IMO	Methanol
ICAO/IATA	Methanol
14.3 Transport hazard class(es)	
ADR/RID	3: Flammable liquid
Subsidiary risk:	6.1: Toxic substance.
IMDG/IMO	3: Flammable liquid
Subsidiary risk:	6.1: Toxic substance.
ICAO/IATA	3: Flammable liquid
Subsidiary risk:	6.1: Toxic substance.
14.4 Packaging group	
ADR/RID	II
IMDG/IMO	II
ICAO/IATA	II
14.5 Environmental hazards	
Marine pollutant	-
14.6 Special precautions for user	No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
Water Hazard Classes (WGK) :	Class 2 - Hazard to waters
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006	Listed (Candidate List)
15.2 Chemical safety assessment	A chemical safety assessment has not been carried out.

SECTION 16: Other information

Prepared by:	TCI EUROPE N.V.
Issue date:	04/11/2019

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet