
MATERIAL SAFETY DATA SHEET

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

Product Name: METHANOL
Index -No: 603-001-00-X
CAS-No: 67-56-1
EC-No: 200-659-6
EU REACH- Reg No: 01-2119433307-44-xxxx
Brand: Solmedia Ltd

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

Use of the Substance/Mixture: See table in front of appendix for a complete overview of identified uses

Uses advised against: At this moment we have not identified any uses advised against

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Solmedia Ltd.
- Address of Supplier: Unit 2, Vernon Drive
Battlefield Enterprise Park
Shrewsbury
SY1 3TF
UK
- Telephone: 0844 80 80 900
- Email: labsupplies@solmedialtd.com

1.4 Emergency telephone number

Emergency Phone # +44 (0)844 80 80 900

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

Classification according to Regulation (EC) No 1272/2008

Hazard Class	Hazard Category	Target Organs	Hazard Statements
Flammable liquids	Category 2	-	H225
Acute toxicity (Inhalation)	Category 3	-	H331
Acute toxicity (Dermal)	Category 3	-	H331
Acute toxicity (Oral)	Category 3	-	H301

Specific target organ toxicity - single exposure	Category 1	Eyes, Central nervous system	H370
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For the full text of the H-Statements mentioned in this Section, see Section 16

Most important adverse effects:

Human Health: See section 11 for toxicological information

Physical and chemical hazards: See section 9/10 for physicochemical information.

Potential environmental effects: See section 12 for environmental information

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

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 (Eyes, Central nervous system).

Signal words: Danger

Hazard pictograms:



Precautionary statements:

Prevention	<p>P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P260: Do not breathe dust/fumes/gas/mist/vapours/spray.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection</p>
Response	<p>P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.</p> <p>P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p>
Storage	<p>P403+233+235: Store in a well-ventilated place. Keep container tightly closed. Keep cool.</p>

Hazardous components which must be listed on the label: Methanol

2.3 Other hazards

For Results of PBT and vPvB assessment see section 12.5.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical nature: Solvent

Classification (Regulation (EC) No 1272/2008)

Hazardous Components		Amount (%)	Hazard Class/Category	Hazard Statements
Index-No	603-001-00-X	<= 10	Flam. Liq.2	H225
CAS-No	67-56-1		Acute Tox.3	H331
EC-No	200-659-6		Acute Tox 3	H311
EU REACH- Reg No	01-2119433307-44-xxxx		Acute Tox.3	H301
			STOT SE1	H370

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:	First aider needs to protect themselves! Remove from exposure, lie down. Take off all contaminated clothing immediately. Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.
Skin contact:	Wash off immediately with soap and plenty of water. Obtain medical attention.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible
Ingestion:	Rinse mouth with water. Never give anything by mouth to an unconscious person. Keep patient warm and at rest. If a person vomits when lying on his back, place him in the recovery position. Call a physician immediately
Inhalation:	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Oxygen, if needed. No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: See Section 11 for more detailed information on health effects and symptoms.

Effects: Risk of blindness! See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Highly flammable, The vapour may be invisible, heavier than air and spread along ground. Vapours may form explosive mixtures with air. Flash back possible over considerable distance.

Hazardous combustion products: Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit).

Further advice: Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise - with risk of bursting. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Keep people away from and upwind of spill/leak. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. In case of inadequate ventilation wear respiratory protection.

6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or

drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on personal protective equipment.

See Section 13 for waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Keep container tightly closed. Provide sufficient air exchange and/or exhaust in work rooms. Use personal protective equipment. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Use respirator with appropriate filter if vapours or aerosol are released. Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Store in a place accessible by authorized persons only. Keep in an area equipped with solvent resistant flooring. Suitable materials for containers: Stainless steel; Mild steel; Unsuitable materials for containers: Lead; Aluminium; Zinc; polystyrene

Advice on protection against fire and explosion: Combustible liquid. Keep away from sources of ignition - No smoking. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Take measures to prevent the build-up of electrostatic charge. Use only in an area containing explosion proof equipment.

Further information on storage conditions: Keep tightly closed in a dry and cool place. Keep in a well-ventilated place.

Advice on common storage: Keep away from food, drink and animal feeding stuffs. Do not

store together with oxidizing and self-igniting products.

7.3 Specific end use(s)

Specific use(s) Identified use: See table in front of appendix for a complete overview of identified uses.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Component Methanol CAS-No 67-56-1

Derived No Effect Level (DNEL) Derived Minimal Effect Level (DMEL)

DNEL	Workers, Acute - systemic effects, Skin contact	: 40 mg/kg bw/day
DNEL	Workers, Acute - systemic effects, Inhalation	: 260 mg/m ³
DNEL	Workers, Acute - local effects, Inhalation	: 260 mg/m ³
DNEL	Workers, Long-term - systemic effects, Skin contact	: 40 mg/kg bw/day
DNEL	Workers, Long-term - systemic effects, Inhalation	: 260 mg/m ³
DNEL	Workers, Long-term - local effects, Inhalation	: 260 mg/m ³
DNEL	Consumers, Acute - systemic effects, Skin contact	: 8 mg/kg bw/day
DNEL	Consumers, Acute - systemic effects, Inhalation	: 50 mg/m ³
DNEL	Consumers, Acute - systemic effects, Ingestion	: 8 mg/kg bw/day
DNEL	Consumers, Long-term - local effects, Inhalation	: 50 mg/m ³
DNEL	Consumers, Long-term - systemic effects, Ingestion	: 8 mg/kg bw/day
DNEL	Consumers, Long-term - systemic effects, Inhalation	: 50 mg/m ³
DNEL	Consumers, Long-term - systemic effects, Skin contact	: 8 mg/kg bw/day
DNEL	Consumers, Acute - local effects, Inhalation	: 50 mg/m ³

Predicted No Effect Concentration (PNEC)

Fresh water	: 154 mg/l
Marine water	: 15.4 mg/l
Sediment	: 570.4 mg/kg dry weight (d.w.)
Soil	: 23.5 mg/kg ww
Sewage treatment plant (STP)	: 100 mg/l
Intermittent releases	: 1540 mg/l

Other Occupational Exposure Limit Values

UK. EH40 Workplace Exposure Limits (WELs), Time Weighted Average (TWA): 200 ppm, 266 mg/m³

UK. EH40 Workplace Exposure Limits (WELs), Skin designation: Can be absorbed through the skin.

UK. EH40 Workplace Exposure Limits (WELs), Short Term Exposure Limit (STEL): 250 ppm, 333 mg/m³

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC 2009/161/EU, 2017/164/EU, Time Weighted Average (TWA): 200 ppm, 260 mg/m³
Indicative

ELV (IE), Time Weighted Average (TWA): 200 ppm, 260 mg/m³ Indicative OELV

ELV (IE), Skin designation: Can be absorbed through the skin

8.2 Exposure controls

Appropriate engineering controls: Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection:

Advice In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air. Respiratory protection complying with EN 141. Recommended Filter type:AX In case of intensive or longer exposure use self-contained breathing apparatus.

Hand protection

Advice Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Protective gloves should be replaced at first signs of wear

Material: butyl-rubber
Break through time: ≥ 8 h
Glove thickness: 0.5 mm

Material: fluorocarbon rubber
Break through time: ≥ 4 h
Glove thickness: 0.4 mm

Material: polychloroprene
Break through time: ≥ 1 h
Glove thickness: 0.5 mm

Eye protection

Advice Safety goggles

Skin and body protection

Advice Impervious clothing

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer system. Avoid

subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	liquid
Colour:	colourless
Odour:	alcohol-like
Odour Threshold:	Not applicable
pH :	Not applicable
Melting point/range:	-97.8 °C
Boiling point/boiling range:	64.7 °C
Flash point:	9.7 °C (Method: closed cup)
Evaporation rate:	no data available
Flammability (solid, gas):	Not applicable
Upper explosion limit:	38.5 %(V) (50 °C)
Lower explosion limit:	4.4 %(V)
Vapour pressure:	169.27 hPa (25 °C)
Relative vapour density:	1.1 (Air = 1.0)
Density:	0.79 g/cm ³ (20 °C)
Water solubility:	completely miscible
Solubility/qualitative:	miscible with most organic solvents
Partition coefficient: n-octanol/water:	log Kow -0.77
Auto-ignition temperature:	455 °C
Thermal decomposition:	no data available
Viscosity, dynamic:	0.544 - 0.59 mPa.s (25 °C)
Explosivity:	Product is not explosive. Formation of explosive air/vapour mixtures is possible.
Oxidizing properties:	not oxidising

9.2 Other safety information

Molecular weight:	32.04 g/mol
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SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Keep away from strong oxidizing agents and strong reducing agents.

10.6 Hazardous decomposition products

Formaldehyde, Carbon monoxide, Gives off hydrogen by reaction with metals

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Component****Methanol****CAS-No 67-56-1**

Acute toxicity	Oral	Toxic if swallowed
	Inhalation	Toxic if inhaled
	Dermal	Toxic in contact with skin
Irritation	Skin	No skin irritation (Rabbit) (BASF – Test)
	Eyes	No eye irritation (Rabbit) (OECD - Guideline 405)
Sensitisation		not sensitizing (Maximisation Test; Guinea pig) (OECD Test Guideline 406)

CMR Effects	
Carcinogenicity	Animal testing did not show any carcinogenic effects.
Mutagenicity	In vitro tests did not show mutagenic effects
	In vivo tests did not show mutagenic effects
Teratogenicity	Not classified due to data which are conclusive although insufficient
Reproductive toxicity	Not classified due to data which are conclusive although insufficient
Genotoxicity in vivo	
	negative (in vivo assay; Mammalian-Animal)
Teratogenicity	
NOAEL Teratog	1.3 mg/L (Rat)
NOAEL Teratog	2.39 mg/L (Monkey)
Reproductive toxicity	
NOAEL Parent	1.33 mg/L (Rat)

Specific Target Organ Toxicity	
Single exposure	Target Organs: Eyes, Central nervous system Causes damage to organs. Experience with human exposure
Repeated exposure	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Other toxic properties	
Repeated dose toxicity	LOAEL: 2340 mg/kg bw/day(Monkey, male)(Oral) (No guideline available)Subacute toxicity

12.1 Toxicity

12.2 Persistence and degradability

12.3 Bioaccumulative potential

BCF: < 10 The product has low potential bioaccumulation

The product is mobile in water environment.

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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.

Component**Methanol****CAS-No 67-56-1**

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

Do not allow undiluted product or large quantities of it to reach sewage system or water bodies

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product: Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services

Contaminated packaging: Dispose of contaminated packaging in the same way as the product. In accordance with local and national regulations. Do not burn, or use a cutting torch on, the empty drum. Risk of explosion.

European Waste Catalogue Number: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport information**14.1 UN number**

1230

14.2 UN proper shipping name

ADR: METHANOL
RID: METHANOL
IMDG: METHANOL

14.3 Transport hazard class(es)

ADR-Class (Labels; Classification Code; Hazard identification No; Tunnel restriction code) : 3 3, 6.1; FT1; 336; (D/E)

RID-Class (Labels; Classification Code; Hazard identification No) : 3 3, 6.1; FT1; 336

IMDG-Class (Labels; EmS) : 3 3, 6.1; F-E, S-D

14.4 Packaging group

ADR: II
 RID: II
 IMDG: II

14.5 Environmental hazards

Environmentally hazardous according to ADR: no
 Environmentally hazardous according to RID: no
 Marine Pollutant according to IMDG-Code: no

14.6 Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG: Not applicable.

SECTION 15: Regulatory information

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

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC) - Not listed

EU. REACH Annex XIV, Substances Subject to Authorization - Not listed;

Component	Methanol	CAS-No 67-56-1
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EU. Regulation EU No. 649/2012 concerning the export and import of dangerous chemicals - The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC) Point Nos.: , 3; Listed
 Point Nos.: , 40; Listed
 Point Nos.: , 69; Listed

EU. Regulation No. 1223/2009 on cosmetic products, Annex III: List of Restricted Substances in Cosmetic Products: Maximum concentration in ready for use preparation: 5 %; Denaturant for ethanol and isopropyl alcohol; See the text of the regulation for applicable exceptions or provisions

EU. Directive 2012/18/EU (SEVESO III) Annex I: 2012/18/EU
 : Lower-tier requirements: 500 tonnes; Part 2: Named dangerous substances
 : Upper-tier requirements: 5,000 tonnes; Part 2: Named dangerous substances

WGK (DE) : WGK 1: slightly water endangering: 145; Classification source is Annex 2. WGK 2: water endangering: 145; Second classification is a KBwS decision.

Notification status methanol:

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
EINECS	YES	200-659-6
ENCS (JP)	YES	(2)-201
IECSC	YES	
ISHL (JP)	YES	(2)-201
JEX (JP)	YES	(2)-201
KECI (KR)	YES	97-1-80
KECI (KR)	YES	KE-23193
NZIOC	YES	HSR001186
PICCS (PH)	YES	
TSCA	YES	

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for this substance.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

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

Abbreviations and Acronyms

BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction

COD	chemical oxygen demand
DNEL	derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
PBT	persistent, bioaccumulative and toxic
PNEC	predicted no-effect concentration
STOT	specific target organ toxicity
SVHC	substance of very high concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
vPvB	very persistent and very bioaccumulative

Other information:

Key literature references and sources for data: Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification: The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data. Hints for trainings: The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

Further information

Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use.

The above information 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. It does not represent any guarantee of the properties of the product. Solmedia

Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.