

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

### 1.1 Product identifier

**Material Name**

Methanol

**Synonyms**

Methyl alcohol, wood alcohol, methyl hydroxide

**Chemical Family**

Alcohols

**Substance Registration Number(s)**

01-2119433307-44-0031

**EC Number**

200-659-6

**CAS Number**

67-56-1

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

**Identified uses**

Industrial use: Distribution of substance. Formulation & (re)packing of substances and mixtures. Use as a fuel. Use in cleaning agents. Use as laboratory reagent. Water treatment chemicals, wastewater. Professional use: Use as a fuel. Use in cleaning agents. Use as laboratory reagent. Use in oil and gas field drilling and production operations. Consumer use: Use in cleaning agents.

**Uses advised against**

None identified

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

Methanex Europe SA/NV I  
Waterloo Office Park - Building P  
Drève Richelle 161 - box 31  
B-1410 Waterloo  
Belgium  
Phone: +(32) 2 352 06 70  
E-mail: reach@methanex.com  
Fax: +(32) 2 352 06 99

### 1.4 Emergency telephone number

+44 (0) 1235 239 670 (24h/7d)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Flammable Liquids - Category 2

Acute Toxicity - Oral - Category 3

Acute Toxicity - Dermal - Category 3

Acute Toxicity - Inhalation - Vapor - Category 3

Specific Target Organ Toxicity - Single Exposure - Category 1 (optic nerve, central nervous system )

### 2.2 Label elements

**Labeling according to Regulation (EC) No. 1272/2008 [CLP]****Hazard symbols**



**Signal word**

Danger

**Hazard statements**

**H225** Highly flammable liquid and vapor.

**H301** Toxic if swallowed.

**H311** Toxic in contact with skin.

**H331** Toxic if inhaled.

**H370** Causes damage to organs.

**Precautionary statements**

**Prevention**

**P233** Keep container tightly closed.

**P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**P240** Ground/Bond container and receiving equipment.

**P241** Use explosion-proof electrical/ventilating/lighting equipment.

**P243** Take action to prevent static discharges.

**P242** Use non-sparking tools.

**P271** Use only outdoors or in a well-ventilated area.

**P280** Wear protective gloves/protective clothing/eye protection/face protection.

**P260** Do not breathe dust/fume/gas/mist/vapors/spray.

**P264** Wash thoroughly after handling.

**P270** Do not eat, drink or smoke when using this product.

**Response**

**P370+P378** In case of fire: Use appropriate media to extinguish.

**P308+P311** If exposed or concerned: Call a POISON CENTER or doctor/physician.

**P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

**P361+P364** Take off immediately all contaminated clothing and wash it before reuse.

**P301+P310** IF SWALLOWED: Immediately call a POISON CENTER/doctor.

**P330** Rinse mouth.

**P311** Call a POISON CENTER or doctor.

**P321** Specific treatment (see label).

**Storage**

**P403+P233** Store in a well-ventilated place. Keep container tightly closed.

**P235** Keep cool.

**P405** Store locked up.

**Disposal**

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Statement of Unknown Toxicity**

0% of the mixture consists of ingredient(s) of unknown acute toxicity.

**2.3 Other hazards**

If swallowed there is a risk of blindness.

**SECTION 3: Composition / information on ingredients**

CAS EC No Registration No	Component Name Synonyms	1272/2008 (CLP)	Percent
67-56-1 200-659-6 01-2119433307-44-0031	Methanol	Flam. Liq. 2 - H225 Acute Tox. (Oral) 3 - H301 Acute Tox. (Vapour) 3 - H331 Acute Tox. (Gas) 3 - H331 Acute Tox. (Dermal) 3 - H311 Acute Tox. (Dust/Mist) 3 - H331 STOT SE 1 - H370 STOT SE 2 - H371	100

**Component Related Regulatory Information**

Specific concentration limit (SCL): STOT SE 1; H370:  $C \geq 10\%$ , STOT SE 2; H371:  $3\% \leq C < 10\%$

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Administer oxygen if breathing is difficult. Immediately call a POISON CENTER or doctor.

**Skin**

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Wash with plenty of water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

**Eyes**

IF IN EYES: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.

**Ingestion**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

**4.2 Most Important Symptoms/Effects**

**Acute**

Poison. May be fatal if swallowed. If swallowed there is a risk of blindness. Toxic if swallowed, in contact with skin or if inhaled. Ingestion causes nausea, weakness and central nervous system effects, headache, vomiting, dizziness, symptoms of drunkenness. Coma and death due to respiratory failure may follow severe exposures: Medical treatment necessary. A latent period of several hours may occur between exposure and the onset of symptoms.

**Delayed**

Causes damage to organs through prolonged or repeated exposure.

**4.3 Indication of Immediate Medical Attention and Special Treatment**

Treat symptomatically and supportively. The severity of symptoms depends upon the length and concentration of the exposure. If ingested, get immediate medical attention. Antidote: Fomepizole enhances elimination of metabolic formic acid. Antidote should be administered by qualified medical personnel.

**Note to Physicians**

Treat symptomatically. The severity of outcome following methanol ingestion may be more related to the time between ingestion and treatment, rather than the amount ingested. Therefore, there is a need for rapid treatment of any ingestion exposure. Call a POISON CENTER.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide, regular dry powder, water spray, alcohol resistant foam, sand. Use water spray to cool fire fire-exposed containers. Water will not cool methanol below its flash point. Collect spillage.

#### Unsuitable Extinguishing Media

Do not use high-pressure water streams.

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

Highly flammable liquid and vapor. Mixtures >20% methanol with water: flammable. May form explosive mixture with air. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Containers may rupture or explode if exposed to heat. Dangerous gases may accumulate in confined spaces. Toxic.

#### Combustion

Releases toxic gases, vapors. Carbon monoxide, carbon dioxide, formaldehyde.

### 5.3 Advice for firefighters

Methanol: Burns with invisible flame. Flame may not be visible in daylight. Cool containers with water spray until well after the fire is out.

#### Fire Fighting Measures

Do not allow run-off from fire-fighting to enter drains or water courses. Keep unnecessary people away, isolate hazard area and deny entry.

#### Protective Equipment and Precautions for Firefighters

Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment. Move container from fire area if it can be done without risk. Do not breathe gas/fume/vapor/spray. Avoid contact with eyes and skin.

### 6.2 Environmental precautions

Avoid release to the environment. Biodegradable at low concentrations. Soluble in water. When released, this product is expected to evaporate. Contact authorities in the event of pollution of soil and aquatic environment or discharge into drains. Dispose in accordance with all applicable federal, state/regional and local laws and regulations.

### 6.3 Methods and Materials for Containment and Cleaning Up

Wear suitable protective clothing and eye/face protection. Stop leak if this can be done without risk. Do not touch or walk through spilled material. Evacuate the area promptly and keep upwind of the spilled material. Ensure adequate ventilation. Avoid inhalation of mists or vapors. Avoid contact with eyes, skin and clothing. Remove all sources of ignition. Avoid friction, static electricity and sparks. Small spills: Absorb with sand or other non-combustible material. Use non-sparking tools and equipment. Collect spilled material in appropriate container for disposal. Clean contaminated surface thoroughly. Large spills: Contain the released material by diking the containment area with absorbent. A vapor suppressing foam may be used to reduce vapors. Collect spilled material in appropriate container for reuse or disposal.

### 6.4 Reference to other sections

Safe handling: see section 7. Personal protection equipment (PPE): see section 8. Disposal: see section 13.



**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Use in a well ventilated area. Wear personal protective clothing and equipment, see Section 8. Eliminate all sources of ignition. No smoking. Do not enter confined spaces unless adequately ventilated. Clean up contamination/spills as soon as they occur. Decontaminate personnel, spill area and all tools and equipment. Use explosion-proof equipment. Use good industrial hygiene practices in handling this material. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and leaving work. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care. Do not breathe vapor.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

Store locked up.

Keep/Store only in original container. Keep out of direct sunlight, and away from heat, water, and incompatible materials. Ground/Bond container and receiving equipment. Provide appropriate fire extinguishers and spill cleanup equipment in or near storage area. Store at room temperature. Store in a dry area. Store in fireproof room. Keep unauthorized personnel away.

**Incompatible Materials**

Lead, Aluminum, zinc, oxidizing agents, strong acids, strong bases, polyethylene, PVC (Polyvinyl chloride), nitrile

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

**8.1 Control parameters**

**Component Exposure Limits**

<b>Methanol</b>	<b>67-56-1</b>
EU (IOELV):	200 ppm TWA ; 260 mg/m3 TWA
	Possibility of significant uptake through the skin
ACGIH:	200 ppm TWA
	250 ppm STEL
Austria:	200 ppm TWA [TMW ] ; 260 mg/m3 TWA [TMW ]
	800 ppm STEL [KZW ] 4 X 15 min ; 1040 mg/m3 STEL [KZW ] 4 X 15 min
	skin notation
Belgium:	200 ppm TWA ; 266 mg/m3 TWA
	250 ppm STEL ; 333 mg/m3 STEL
	Skin
Bulgaria	200 ppm TWA ; 260 mg/m3 TWA
	Skin notation
Croatia	200 ppm TWA [GVI]; 260 mg/m3 TWA [GVI]

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) as amended  
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	Skin Notation
Cyprus	200 ppm TWA ; 260 mg/m3 TWA
	Skin-potential for cutaneous absorption
Czech Republic	250 mg/m3 TWA
	1000 mg/m3 Ceiling
	Potential for cutaneous absorption
Denmark.	200 ppm TWA ; 260 mg/m3 TWA
	Potential for cutaneous absorption
Estonia	200 ppm TWA ; 260 mg/m3 TWA
	250 ppm STEL ; 350 mg/m3 STEL
	Skin notation
Finland:	200 ppm TWA ; 270 mg/m3 TWA
	250 ppm STEL ; 330 mg/m3 STEL
	Potential for cutaneous absorption
France:	200 ppm TWA [VME ] (restrictive limit ) ; 260 mg/m3 TWA [VME ] (restrictive limit )
	1000 ppm STEL [VLCT ] ; 1300 mg/m3 STEL [VLCT ]
	Risk of cutaneous absorption
Germany (TRGS):	200 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed ) exposure factor 4 ; 270 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed ) exposure factor 4
	skin notation
	skin notation
Germany (DFG):	200 ppm TWA MAK ; 270 mg/m3 TWA MAK
	800 ppm Peak ; 1080 mg/m3 Peak
	skin notation
Greece:	200 ppm TWA ; 260 mg/m3 TWA
	250 ppm STEL ; 325 mg/m3 STEL



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	skin - potential for cutaneous absorption
Hungary	260 mg/m3 TWA [AK]
	potential for cutaneous absorption
Ireland:	200 ppm TWA ; 260 mg/m3 TWA
	600 ppm STEL (calculated ) ; 780 mg/m3 STEL (calculated )
	Potential for cutaneous absorption
Italy:	200 ppm TWA Media Ponderata nel Tempo ; 260 mg/m3 TWA Media Ponderata nel Tempo
	skin - potential for cutaneous absorption
	200 ppm TWA ; 262 mg/m3 TWA
	Skin - potential for cutaneous absorption
Latvia	200 ppm TWA ; 260 mg/m3 TWA
	skin - potential for cutaneous exposure
Lithuania	200 ppm TWA [IPRD]; 260 mg/m3 TWA [IPRD]
	Skin notation
Luxembourg	200 ppm TWA; 260 mg/m3 TWA
Malta	200 ppm TWA ; 260 mg/m3 TWA
	possibility of significant uptake through the skin
Netherlands:	133 mg/m3 TWA ; 100 ppm TWA
	skin notation
Poland	100 mg/m3 TWA [NDS]
Portugal:	200 ppm TWA [VLE-MP ] (indicative limit value ) ; 260 mg/m3 TWA [VLE-MP ] (indicative limit value )
	250 ppm STEL [VLE-CD
	skin - potential for cutaneous exposure (indicative limit value )
Romania	200 ppm TWA ; 260 mg/m3 TWA
	200 ppm TWA ; 260 mg/m3 TWA
Slovak Republic	200 ppm TWA ; 260 mg/m3 TWA

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) as amended  
**Material Name: Methanol** **SDS ID: Methanol-EU**

	Potential for cutaneous absorption
Slovenia	200 ppm TWA ; 260 mg/m <sup>3</sup> TWA
Spain:	200 ppm TWA [VLA-ED ] (indicative limit value ) ; 266 mg/m <sup>3</sup> TWA [VLA-ED ] (indicative limit value )
	skin - potential for cutaneous exposure
Sweden:	200 ppm LLV ; 250 mg/m <sup>3</sup> LLV
	250 ppm Indicative STLV ; 350 mg/m <sup>3</sup> Indicative STLV
	Skin notation
United Kingdom:	200 ppm TWA ; 266 mg/m <sup>3</sup> TWA
	250 ppm STEL ; 333 mg/m <sup>3</sup> STEL
	Potential for cutaneous absorption

**Component Biological Exposure Limits**

<b>Methanol</b>	<b>67-56-1</b>
ACGIH:	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific )
Czech Republic	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific )

**Derived No Effect Levels (DNELs)**

<b>Methanol</b>	<b>67-56-1</b>
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects, dermal	40 mg/kg bw/day
Acute - systemic effects, inhalation	260 mg/m <sup>3</sup>
Acute - local effects, dermal	not quantifiable
Acute - local effects, inhalation	260 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	40 mg/kg bw/day
Long-term - systemic effects, inhalation	260 mg/m <sup>3</sup>
Long-term - local effects, dermal	not quantifiable
Long-term - local effects, inhalation	260 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	

Acute - systemic effects, dermal	8 mg/kg bw/day
Acute - systemic effects, inhalation	50 mg/m <sup>3</sup>
Acute - systemic effects, oral	8 mg/kg bw/day
Acute - local effects, dermal	not quantifiable
Acute - local effects, inhalation	50 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	8 mg/kg bw/day
Long-term - systemic effects, inhalation	50 mg/m <sup>3</sup>
Long-term - systemic effects, oral	8 mg/kg bw/day
Long-term - local effects, dermal	not quantifiable
Long-term - local effects, inhalation	50 mg/m <sup>3</sup>

**Predicted No Effect Concentrations (PNECs)**

<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	154 mg/l
PNEC aqua (marine water)	15.4 mg/l
PNEC aqua (intermittent releases)	1540 mg/L
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	570.4 mg/l
<b>PNEC (Soil)</b>	
PNEC soil	23.5 mg/kg.w.
<b>PNEC sewage treatment plant</b>	
PNEC stp	100 mg/L

**8.2 Exposure Controls**

**Engineering controls**

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Use explosion-proof electrical/ventilating/lighting equipment. Handle substance within a closed system. Ground/Bond container and receiving equipment. Maintain eye wash fountain and quick-drench shower in work area.

**Eye/face protection**

Use eye protection according to EN 166, designed to protect against liquid splashes.

**Skin Protection**

Wear appropriate chemical resistant clothing (EN ISO 6529).

**Respiratory Protection**

Any supplied-air respirator with a full face piece that is operated in a pressure-demand or other positive-pressure mode (EN 137). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Glove Recommendations**

Wear suitable gloves tested to (EN 374), butyl rubber.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<b>Appearance</b>	clear	<b>Physical State</b>	liquid
<b>Odor</b>	alcohol odor	<b>Color</b>	colorless
<b>Odor Threshold</b>	4.2 - 5960 ppm	<b>pH</b>	Not applicable
<b>Melting Point</b>	-97.8 °C	<b>Boiling Point</b>	64.7 °C
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	-97.6 °C
<b>Evaporation Rate</b>	4.1 (butyl acetate = 1 )	<b>Flammability (solid, gas)</b>	Not applicable
<b>Autoignition Temperature</b>	464 °C	<b>Flash Point</b>	11 °C
<b>Lower Explosive Limit</b>	5.5 %	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	36.5 %	<b>Vapor Pressure</b>	12.8 kPa (@ 20 °C )
<b>Vapor Density (air=1)</b>	1.1 (@ 20 °C )	<b>Specific Gravity (water=1)</b>	792 kg/m <sup>3</sup>
<b>Water Solubility</b>	Not available	<b>Partition coefficient: n-octanol/water</b>	-0.82
<b>Viscosity</b>	0.8 cP (25 °C, dynamic )	<b>Solubility (Other)</b>	Not available
<b>Density</b>	0.791 - 0.793 at 20 °C	<b>VOC</b>	100 %
<b>Molecular Weight</b>	32.04 (g/mol )	<b>Critical Temperature</b>	239.4 °C
<b>Oxidising properties</b>	Not oxidising	<b>Explosive properties</b>	Vapors may form explosive mixtures with air

**Solvent Miscibility**  
**Miscible**  
 Miscible with water.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

Containers may rupture or explode if exposed to heat.

**10.2 Chemical stability**

Stable under normal conditions of use. In use, may form flammable/explosive vapor-air mixture. Product is hygroscopic.

**10.3 Possibility of hazardous reactions**

Will not polymerize.

**10.4 Conditions to avoid**

Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat.

**10.5 Incompatible materials**

Lead, Aluminum, zinc, oxidizing agents, strong acids, strong bases, polyethylene, PVC (Polyvinyl chloride), nitrile

**10.6 Hazardous decomposition products**

Heat, carbon monoxide, carbon dioxide, flammable gases, formaldehyde

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute and Chronic Toxicity**

Poison. May be fatal if swallowed. If swallowed there is a risk of blindness. Toxic if swallowed, in contact with skin or if inhaled.

**Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

**Methanol (67-56-1)**

- Oral LD50 Rat 5600 mg/kg
- Dermal LD50 Rabbit 15800 mg/kg
- Inhalation LC50 Rat 64000 ppm 4 h

**Product Toxicity Data**

**Acute Toxicity Estimate**

Dermal	300 mg/kg
Inhalation - Vapor	3 mg/L
Oral	100 mg/kg

**Irritation/Corrosivity Data**

May cause irritation to eyes, skin and respiratory tract.

**Respiratory Sensitization**

No data available.

**Dermal Sensitization**

No data available.

**Germ Cell Mutagenicity**

No data available.

**Component Carcinogenicity**

None of this product's components are listed by IARC or DFG.

**Reproductive toxicity**

No data available.

**Specific Target Organ Toxicity - Single Exposure**

optic nerve, central nervous system



**Specific Target Organ Toxicity - Repeated Exposure**

No target organs identified.

**Aspiration hazard**

No data available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Avoid release to the environment.

**Component Analysis - Aquatic Toxicity**

<b>Methanol</b>	<b>67-56-1</b>
Fish:	LC50 96 h Pimephales promelas 28200 mg/L [flow-through ]; LC50 96 h Pimephales promelas >100 mg/L [static ]; LC50 96 h Oncorhynchus mykiss 19500 - 20700 mg/L [flow-through ]; LC50 96 h Oncorhynchus mykiss 18 - 20 mL/L [static ]; LC50 96 h Lepomis macrochirus 13500 - 17600 mg/L [flow-through ]
Algae:	EC50 72 hr Selenastrum capricornutum 22000 mg/l
Invertebrate:	EC50 48 hr Daphnia >10000 mg/l

**12.2 Persistence and degradability**

Rapidly degradable.

**12.3 Bioaccumulative potential**

No indication of bioaccumulation potential.

**12.4 Mobility in soil**

Mobile

**Bioconcentration factor (BCF)**

BCF: < 10

**12.5 Results of PBT and vPvB assessment**

Not fulfilling PBT and vPvB criteria.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Incineration is the preferred disposal method.

Waste codes/waste designations according to LoW: EWC-code: 07 01 04\*

Empty product containers may contain product residue. Recycle if possible.

Prevent entry into sewers, drains, ditches, underground or confined spaces and waterways.

Dispose in accordance with all applicable federal, state/regional and local laws and regulations.

**SECTION 14: Transport information**

		ADR	RID	ICAO	IATA	ADN	IMDG
14.1	UN Number	UN1230	UN1230	UN1230	UN1230	UN1230	UN1230

14.2	UN Proper Shipping Name	METHANOL	METHANOL	METHANOL	METHANOL	METHANOL	METHANOL
14.3	Transport Hazard Class(es)	3 Risks: 6.1	3 Risks: 6.1	3 Risks: 6.1	3 Risks: 6.1	3 Risks: 6.1	3 Risks: 6.1
14.4	Packing Group	II	II	II	II	II	II
14.5	Environmental Hazards	--	--	--	--	--	--
14.6	Special Precautions For User	--	--	--	--	--	--
14.7	Transport in Bulk According to Annex II of MARPOL and the IBC Code	--	--	--	--	--	--
14.8	Additional information	ADR Tunnel Code Restrictions: D/E	--	--	--	--	--

**Component Marine Pollutants (IMDG)**

Not regulated as dangerous goods.

**International Bulk Chemical Code**

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

<b>Methanol</b>	<b>67-56-1</b>
IBC Code:	Category Y

**SECTION 15: Regulatory information**

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

**EU - REACH (1907/2006) - Annex XIV List of Substances Subject to Authorization**

No components of this material are listed.

**EU - REACH (1907/2006) - Article 59(1) Candidate List of Substances Subject to Authorization**

No components of this material are listed.

**EU - REACH (1907/2006) - Annex XVII Restrictions of Certain Dangerous Substances, Mixtures and Articles**

No components of this material are listed.

**EU - Substances Depleting the Ozone layer (1005/2009)**

No components of this material are listed



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**EU - Persistent Organic Pollutants (850/2004)**

No components of this material are listed

**EU - Export and Import Restrictions (689/2008) - Chemicals and Articles Subject to Export Ban**

No components of this material are listed

**EU - Seveso III Directive (2012/18/EU) - Qualifying Quantities of Dangerous Substances**

No components of this material are listed

**EU - Plant Protection Products (1107/2009/EC)**

No components of this material are listed

**EU - Biocides (528/2012/EU)**

No components of this material are listed

**EU - Water Framework Directive (2000/60/EC) - amended by Directive 2008/105/EC**

No components of this material are listed

**EU - Limitation of Emissions of Volatile Organic Compounds Due to the Use of Organic Solvents in Certain Activities and Installations (1999/13/EC)**

No components of this material are listed

**EU Detergent Regulation 648/2004/EC**

No components of this material are listed

**Germany Regulations**

**Germany Water Classification - Product**

hazard class 2 - hazard to waters

**Germany Water Classification - Component**

**Methanol (67-56-1)**

ID Number 145, hazard class 2 - hazard to waters

**Denmark Regulations**

<b>Methanol</b>	<b>67-56-1</b>
	Solvents
	Properties of concern with regard to the List of hazardous substances

**Component Analysis - Inventory**

**Methanol (67-56-1)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes

**15.2 Chemical Safety Assessment**

For this substance a chemical safety assessment has been carried out.

**SECTION 16: Other information**

**16.1 Indication of changes**

New SDS: 14 September 2016

**16.2 Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations (US); CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive;



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) as amended  
Material Name: **Methanol** SDS ID: **Methanol-EU**

DSL - Domestic Substances List; EC – European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KECI - Korea Existing Chemicals Inventory; KECL – Korea Existing Chemicals List; KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; NDSL – Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); WHMIS - Workplace Hazardous Materials Information System (Canada)

**16.3 Key literature references and sources for data**

Available upon request.

**16.4 Methods Used for Classification of Mixture According to Regulation (EC) No 1272/2008**

Available upon request.

**16.5 Relevant H- and EUH-phrases (Number and full text) and Notes**

**H225** Highly flammable liquid and vapor

**H301** Toxic if swallowed

**H311** Toxic in contact with skin

**H331** Toxic if inhaled

**H370** Causes damage to organs.

**16.6 Training advice**

Read the Safety Data Sheet before handling product.

**16.7 Further Information**

**Disclaimer:**

The information above is believed to be accurate and represents the best information currently available to us. Users should make their own investigations to determine the suitability of the information for their particular purposes. This document is intended as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Methanex Corporation and its subsidiaries make no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Methanex Corp. will not be responsible for damages resulting from use of or reliance upon this information.