

Safety Data Sheet

"Has been prepared in accordance with Regulation on the Safety Data Sheets for Hazardous substances and mixtures (13/12/2014 Date and Official Gazette No. 29204) and (EC) No 1272/2008"

Methanol

Version: 2.0
Form No: 327052

Preparation Date : 8/25/2016
Revision Date: 8/25/2016

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name	Methanol
GBF¹ No	327052
CAS No	67-56-1
EINECS No	200-659-6
EC Index No	603-001-00-X
Chemical Formula	CH ₃ OH
Molecular Formula	

OH

1.2 Relevant Identified Uses Of The Product And Uses Advised Against

Relevant Identified Uses	Used as solvent, fuel and feedstock.
Uses Advised Against	None known.

1.3 Details Of The Supplier Of The Safety Data Sheet

1.3.1 Manufacturer

Company	Methanex Europe S.A.
Address	Waterloo Office Park - Building P - Drève Richelle 161 - box 31 B-1410 Waterloo - BELGIUM
Telephone	+(32) 2 352 06 70
Fax	+(32) 2 352 06 99
Information Providing Authority About Safety Data Sheet	barisnaim@doruksistem.com.tr

1.4 Emergency Telephone Number

Company Emergency Number	+44 (0) 1235 239 670 (24 h/7d)
Emergency First Aid Center	112
Ministry of Health National Poison Information Center	114
Fire-fighting	110

2. HAZARDS IDENTIFICATION

2.1 Classification Of The substance and mixture:

2.1.1 Classification of hazardousness (RG .-11.12.2013- 28848)

- Flam. Liq. 2; H225
- Acute Tox. 3 (Inhalation); H331
- Acute Tox. 3 (Dermal); H311
- Acute Tox. 3 (Oral); H301
- STOT SE. 1; H370

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2.2 Label elements

2.2.1. Labeling According to (RG.-11.12.2013- 28848)

Product Identifier

Hazard Component for Labeling

· Methanol

Hazard Pictograms



Signal Word

DANGER

Hazard Statements

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.

Precautionary Statements

General

None.

Prevention

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

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

Response

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

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.

Storage

P403+P235 Store in a well ventilated place. Keep cool.

Disposal

None.

Supplemental Hazard Information (EU) Statements

None.

2.3. Additional Hazards

· No information.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

- Contains Methanol [CAS#67-56-1].

3.2 Mixtures

Hazardous substances contained:

NAME	EINECS NO	CAS NO.	CONTENT (%)	CLASSIFICATION
				CLP
Methanol	200-659-6	67-56-1	>= 99,85	Flam. Liq. 2; H225 Acute Tox. 3 (Inhalation); H331 Acute Tox. 3 (Dermal); H311 Acute Tox. 3 (Oral); H301 STOT SE. 1; H370

3.2.1 Notes:

(3 =< C < 10); STOT SE. 2, H371

(C >= 10); STOT SE. 1, H370

M-Factor: Not Specified

Specific Concentration Limits: Not Specified

3.2.2 Additional information

All of the relevant loss sentence description is given in section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 General information

- Methanol is toxic and flammable.
- Take proper precautions to ensure your own safety before attempting rescue.
- Seek medical advice by showing this safety data sheet if you feel unwell.

4.1.2 Following inhalation

- Remove the exposed person from the accident area to fresh air. Keep him/her at rest comfortable for breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Contact with a doctor.



4.1.3 Following skin contact

- Rinse skin with water/shower.
- Remove contaminated clothing.
- Immediately call a POISON CENTRE, get medical attention.
- DO not reuse contaminated clothing without washing.



4.1.4 Following eye contact

- Flush eyes with plenty of water for at least 15 minutes with eyelids wide open.
- Remove contact lenses, if easy to do and continue rinsing.
- Ensure that folded skin of eyelids is thoroughly washed.
- Obtain medical attention without delay in case of pain, blinking or redness.



4.1.5 Following ingestion

- Rinse mouth with water.
- DO not induce vomiting.

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- Never give anything by mouth to an unconscious person.
- Call a POISON CENTRE or obtain medical attention.



4.2 Important acute and chronic symptoms and Effects

Skin Contact

- Toxic when in contact with skin. May cause severe adverse health effects if absorbed through skin by repeated exposure. Repeated and/or prolonged skin contact may cause irritation.

Eye Contact

- Causes eye irritation.

Ingestion

- Ingestion of 10 ml of methanol may cause blindness and 30 ml may cause death if not treated. Ingestion may cause mild central nervous system (CNS) depression with nausea, headache, vomiting, dizziness, incoordination and an appearance of drunkenness. May cause metabolic acidosis and severe visual effects following an 8-24 hour latent period. Coma and death, usually due to respiratory failure, may occur if medical treatment is not received. May cause reduced reactivity and/or increased sensitivity to light, blurred, double and/or snowy vision, and blindness.

Inhalation

- Toxic if inhaled. May cause dizziness, headache, nausea and loss of coordination after and CNS depression after inhalation. May cause metabolic acidosis and severe visual effects following an 8-24 hour latent period. Coma and death, usually due to respiratory failure, may occur if medical treatment is not received. May cause reduced reactivity and/or increased sensitivity to light, blurred, double and/or snowy vision, and blindness.

Other (Long Term Effects)

- May cause severe adverse health effects if absorbed through skin by repeated exposure. Repeated and/or prolonged skin contact may cause irritation. Animal studies has shown that it causes teratogenic and fetotoxic effects although there is no maternal toxicity.

4.3 First Signs For Special Treatment Requirement and Medical Response

- Treat symptomatically. The effects following methanol ingestion may be more related to the time between ingestion and treatment, rather than the amount ingested. Therefore, if any ingestion exposure occurs, it should be responded without delay. Antidote is fomepizole which enhances elimination of metabolic formic acid. Fomepizole treatment should be administered by a trained medical professional only. For specialist advice contact the Poison Control Centre.

5. FIRE-FIGHTING MEASURES

5.1 General Information and Flammable Properties

Suitable Extinguishing Media	Synthetic fire-fighting foam AR-FFF (3% solution), dry powder, carbon dioxide, water spray, sand.
Unsuitable Extinguishing Media	DO not use water jet. Water may help cooling, dilution and dispersion of methanol however it will not cool methanol below its flash point and will not be effective in fire-fighting. If water is used,

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	<i>it may cause spreading of fire. Water-methanol mixtures having concentrations more than 20 % are considered as flammable.</i>
<i>Other explanations</i>	<i>None.</i>

5.2 Special hazards arising from the product

<i>Burning Related Damages</i>	<i>Methanol and its vapors are highly flammable. May cause toxicity and flammability related hazards when accumulated in confined areas. CO, CO₂ and other hazardous gases are release as a result of incomplete combustion.</i>
<i>Explosion Related Losses</i>	<i>In case of fire, closed containers may rupture or explode. Product vapors may form explosive mixtures with air.</i>
<i>Reactivity Related Losses</i>	<i>No Information</i>
<i>Other explanations</i>	<i>Flames may not be visible during day time. The use of infrared and or heat detection devices is recommended.</i>

5.3 Advice for fire-fighters

<i>Fire Fighting Instructions</i>	<i>Cool containers in fire area with water spray or mist. Move containers from path of fire if safe to do so. Remove all ignition sources. DO not inhale fire products. Do not stand upwind or in low-lying areas. Remove personnel to safe areas.</i>
<i>Protective Equipment for Fire Fighting Personnel</i>	<i>Fire-fighting personnel should wear self-contained breathing apparatus (SCBA) and protective clothing.</i>
<i>Other explanations</i>	<i>Untrained personnel should not intervene in fire-fighting.</i>

5.4 Additional information

- *Avoid polluting the environment by using too much fire extinguisher.*
- *Fire protection wastes not to be allowed to reach the drains and groundwater.*

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- *Apply Exposure controls and personal protective measures described in Section 8.*

6.1.1 For Non-Emergency Personnel

<i>Protective Equipment</i>	<i>Wear personal protective clothing and equipment to prevent skin, eye and clothing contamination. See the chapter 8 of this form.</i>
<i>Emergency procedures</i>	<i>Provide adequate ventilation. Evacuate the danger area. Wear protective clothing, gloves, and goggles and face protection. Consult a specialist for emergency procedures.</i>
<i>Other explanations</i>	<i>Do not touch or get in contact with the material until all the precautions are thoroughly read and understood.</i>

6.1.2 Emergency Personnel

<i>Protective equipment</i>	<i>Wear suitable protective clothing, gloves and eye / face protection</i>
<i>Emergency procedures</i>	<i>Evacuate the area and prevent unauthorized entrances.</i>

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	<p><i>Remove personnel to safe area. Remove all ignition sources. Provide adequate ventilation. Do not breathe product vapors. Prevent skin, eye and clothing contact. Take precautions against static charge accumulation. Do not smoke.</i></p>
other explanations	<p><i>Ensure that the staff thoroughly read and understood all safety precautions.</i></p>

6.2 Environmental precautions:

- *Avoid contaminating groundwater drains / surface water /.*
- *Notify the authorities in case of seepage into sewers or water.*
- *If spilled to water, methanol tends to dissolve/evaporate (European Behavior Classification system for chemicals (reported in IMO (2011))).*
- *GESAMP hazard profile: methanol does not bio accumulate and is readily biodegradable in the aquatic environment (IMO2011).*

6.3 Methods And Materials to Clean and to Maintain:

- *Place contaminated material in a suitable container and dispose according to section 13.*

6.3.1 Recommendations Relating to the Control of the spillage

- *Stop the leak if possible without taking risk.*
- *Remove all ignition sources.*

6.3.2 Recommendations Regarding to the Cleaning of the spillage

- *Small spills: take up in non-combustible absorbent material and shovel into container for disposal. Clean spill area with soapy water.*
- *Large spills: Dike to collect large spills. Alcohol resistant foams may be helpful to diminish vapor and fire hazard. Remove liquid by intrinsically safe pumps or vacuum equipment designed for vacuuming flammable materials (i.e. equipped with inert gases and ignition sources controlled) and place in suitable, covered, labelled containers.*

6.4 Other Information:

- *Please comply with local regulations.*

6.5 Other Citations

- *Take information on safe handling from part 7 for.*
- *Take information on personal protection equipment from section 8.*
- *Take disposal information from Section 13.*

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

- *To ensure the protection of the environment and health, should be acted in accordance with the provisions of organizational measures and the operating procedures and care must be taken on the planning of operating procedures in the workplace and on taking organizational measures according to Article 7 of the Regulation of Health and Safety Measures 08.12.2013 dated and nr.28 733 and according to Article 7 of the Regulation Health and Safety*

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precautions concerning working with carcinogenic or mutagenic substances 06.08.2013 dated and numbered 28730.

- *Take information on safe handling from part 7 for.*
- *Take information on personal protection equipment from section 8.*
- *Take disposal information from Section 13.*

7.1.1 General Handling Recommendations:

7.1.1.1 Warnings for Safe Handling

Wear protective clothing and avoid contact with clothing. To provide safe handling, take necessary precautions to prevent fire and aerosol and dust formation.

Special Rules for Manual Handling

- *Avoid direct contact with the substance. Handle empty containers with care since residual vapors are flammable.*
- *Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.*
- *Provide good ventilation in process area to prevent exposure to product vapors.*
- *Keep away from open flames.*
- *Do not smoke.*
- *Use only explosion proof equipment and non-sparkling tools.*
- *Do not breathe vapors.*

Information for protection from fire and explosion:

- *Keep fire-fighting equipment available.*

7.1.1.2 Alerts Related to the conflicts of substance or mixtures

- *Take the necessary measures to prevent the handling of incompatible substances or mixtures with each other.*

7.1.1.3 Environmental Related Alerts

- *Avoid contaminating Drains / surface water / groundwater.*
- *Notify the authorities in case of seepage into sewage and water.*

7.1.1.4 Additional Warnings

- *Take the necessary measures to prevent damage to the original package / storage.*

7.1.2 General Occupational Hygiene Related Recommendations:

- *Industrial hygiene standards must be complied during use of chemicals to avoid contact with eyes and skin.*
- *Wash hands with soap and water after work.*
- *Ensure good ventilation.*
- *Smoking, eating and drinking in the work area should be prohibited.*
- *Before entering the dining area contaminated clothing and protective equipment must be removed.*

7.2 Conditions for Safe Storage also containing conflicts:

Technical Measures	<i>Take proper grounding precautions against static charge accumulation. Ground/bond container and receiving equipment. Use explosion proof electrical equipment. Have appropriate fire extinguishers and spill cleanup equipment in or near storage area.</i>
Storage Conditions	<i>Store in a cool, dry and well ventilated area in original containers, away from ignition sources and oxidizing materials. . Keep in</i>

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	<i>fireproof place. Keep containers tightly closed. Do not store in confined areas. Store at room temperature. Keep away from direct sunlight. The store room should be fire proof. Store locked up. Prevent the entrance of unauthorized people. Suitable packing material: Steel, stainless steel, iron, glass Storage Class: LGK 3 – Flammable Liquids</i>
<i>Common Storage Conditions</i>	<i>Keep away from the food, beverages and animal feed area. Keep away from open flames, ignition and heat sources. Follow the general rules that are used to store chemicals.</i>
<i>Maximum Storage Period</i>	<i>No data</i>
<i>Incompatible Materials</i>	<i>Lead, aluminum, zinc, polyethylene, PVC</i>
7.3 Specific end uses::	
	<i>Take precautions mentioned at Section 1.2 for end uses.</i>

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits

Methanol (67-56-1)		
EU	IOELV TWA (mg/m ³)	260 mg/m ³
EU	IOELV TWA (ppm)	200 ppm
EU	NotES	Skin
Austria	Local name	Methanol
Austria	MAK (mg/m ³)	260 mg/m ³
Austria	MAK (ppm)	200 ppm
Austria	MAK (Kısa Dönem) (mg/m ³)	1040 mg/m ³
Austria	MAK (Kısa Dönem)(ppm)	800 ppm
Austria	Remark (AT)	H
Belgium	Local name	Alcool méthylique
Belgium	Limit value (mg/m ³)	266 mg/m ³
Belgium	Limit value (ppm)	200 ppm
Belgium	Short term value (mg/m ³)	333 mg/m ³
Belgium	Long term value (ppm)	250 ppm
Belgium	Remark (BE)	D
Czech Republic	Local name	Methanol
Czech Republic	Expoziční limity (PEL) (mg/m ³)	250 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	189 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	1000 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	750 ppm
Czech Republic	Remark (CZ)	D
Denmark	Local name	Methanol
Denmark	Grænseværdie (langvarig) (mg/m ³)	260 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	200 ppm

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Denmark	Grænseværdie (kortvarig) (mg/m ³)	520 mg/m ³
Denmark	Denmark	Denmark
Denmark	Anmærkninger (DK)	EH
Finland	Local name	Metanoli
Finland	HTP-arvo (8h) (mg/m ³)	270 mg/m ³
Finland	HTP-arvo (8h) (ppm)	200 ppm
Finland	HTP-arvo (15 min)	330 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	250 ppm
Finland	Huomautus (FI)	iho
France	Local name	Alcool méthylique
France	VME (mg/m ³)	260 mg/m ³
France	VME (ppm)	200 ppm
France	VLE (mg/m ³)	1300 mg/m ³
France	VLE (ppm)	1000 ppm
France	Note(FR)	Peau
Germany	Local name	Methanol
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	270 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	200 ppm
Germany	TRGS 900 Limitation of exposure peaks (mg/m ³)	1080 mg/m ³
Germany	TRGS 900 Limitation of exposure peaks (ppm)	800 ppm
Germany	Remark (TRGS 900)	DFG,EU,H,Y
Germany	TRGS 903 (BGW)	30 mg/l
Germany	Remark (TRGS 903)	(Urin; bei Langzeitexposition/Expositionsende bzw. Schichtende)
Greece	OEL TWA (mg/m ³)	260 mg/m ³
Greece	OEL TWA (ppm)	200 ppm
Greece	OEL STEL (mg/m ³)	325 mg/m ³
Greece	OEL STEL (ppm)	250 ppm
Hungary	Local name	METIL-ALKOHOL
Hungary	AK-érték	260 mg/m ³
Hungary	Megjegyzések (HU)	b, i; II.1.
Ireland	Local name	Methanol
Ireland	OEL (8 hours ref) (mg/m ³)	260 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	Notes(IE)	Sk, IOELV
İtaly	Local name	Metanolo
İtaly	OEL TWA (mg/m ³)	260 mg/m ³
İtaly	OEL TWA (ppm)	200 ppm
Latvia	Local name	Metanols (metilspirts, karbinols)

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Latvia	OEL TWA (mg/m ³)	260 mg/m ³
Latvia	OEL TWA (ppm)	200 ppm
Lithuania	Local name	Metanolis (metilo alkoholis)
Lithuania	IPRV (mg/m ³)	260 mg/m ³
Lithuania	IPRV (ppm)	200 ppm
Lithuania	Remark (LT)	O
Holland	Local name	Methanol
Holland	Grenswaarde TGG 8H (mg/m ³)	133 mg/m ³
Holland	Grenswaarde TGG 8H (ppm)	200 ppm
Holland	Grenswaarde TGG 15MIN (mg/m ³)	520 mg/m ³
Poland	Local name	Metanol (metylowy alkohol)
Poland	NDS (mg/m ³)	100 mg/m ³
Poland	NDSCh (mg/m ³)	300 mg/m ³
Portugal	Local name	Metanol (Álcool metílico)
Portugal	OEL TWA (ppm)	200 ppm
Portugal	OEL STEL (ppm)	250 ppm
Romania	Local name	Alcool metilic
Romania	OEL TWA (mg/m ³)	260 mg/m ³
Romania	OEL TWA (ppm)	200 ppm
Romania	OEL STEL (ppm)	5 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	260 mg/m ³ poznámka K
Slovakia	NPHV (priemerná) (ppm)	200 ppm poznámka K 30 ppm (Metanol)
Spain	Local name	Metanol (Alcohol metílico)
Spain	VLA-ED (mg/m ³)	266 mg/m ³ vía dérmica, VLB, VLI
Spain	VLA-ED (ppm)	200 ppm vía dérmica, VLB, VLI 15 ppm F, I "(Alcohol metílico en orina; Final de la jornada laboral 2)"
Spain	VLA-EC (mg/m ³)	333 mg/m ³ vía dérmica, VLB, VLI
Spain	VLA-EC (ppm)	250 ppm vía dérmica, VLB, VLI
Spain	Notes	Vía dérmica: (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento.), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento.), VLI (Agente químico para el que la U.E. estableció en su día un valor límite

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		indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.)
Sweden	Local name	Methanol
Sweden	nivågränsvärde (NVG) (mg/m ³)	250 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	200 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	350 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	250 ppm
Sweden	Anmärkning (SE)	H
United Kingdom	Local name	Methanol
United Kingdom	WEL TWA (mg/m ³)	266 mg/m ³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m ³)	333 mg/m ³
United Kingdom	WEL STEL (ppm)	250 ppm
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Norway	Local name	Metanol
Norway	Grenseverdier (AN) (mg/m ³)	130 mg/m ³
Norway	Grenseverdier (AN) (ppm)	100 ppm
Norway	Merknader (NO)	H
USA- ACGIH	Local name	Methanol
USA- ACGIH	ACGIH TWA (mg/m ³)	262 mg/m ³

Methanol (67-56-1)		
USA - ACGIH	ACGIH TWA (ppm)	200 ppm
USA- ACGIH	ACGIH STEL (mg/m ³)	327 mg/m ³
USA - ACGIH	ACGIH STEL (ppm)	250 ppm
USA - ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea

8.1.1.1 Occupational exposure limit values according to the Regulation (RG.-12.08.2013-28733) Health and Safety Measures on Working with Chemicals:

No data

8.1.1.2 Occupational exposure limit values according to the Regulation (RG.-06.08.2013-28730) Health and Safety Precautions on Working with carcinogenic or mutagenic substances:

No data

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8.1.1.3 Other Occupational Exposure Limit Values:

No data

8.1.1.4 Biological limit values according to Regulation (RG.-12.08.2013-28733) Health and Safety Precautions on Chemical Studies:

Methanol(67-56-1)	
DNEL/DMEL (Workers)	
Acute – systemic effects, skin	40 mg/kg bw/ day
Acute– systemic effects, inhalation	260 mg/m ³
DNEL/DMEL (General population)	
Acute– systemic effects, skin	8 mg/kg bw
Acute– systemic effects, inhalation	50 mg/kg bw/ day
PNEC (water)	
PNEC aqua (fresh water)	154 mg/l
PNEC aqua (sea water)	15.4 mg/l
PNEC (sediment)	
PNEC sediment(fresh water)	570.4 mg/l

8.1.1.5 Other biological limit values:

No data

8.1.2 Information on recommended monitoring procedures for the substance very similar to the relevant substance:

No data

8.1.3 Occupational exposure limit values and / or biological limit values for case of formation of air pollutants while using the substance or mixture as intended:

No data

8.1.4 In cases where the control banding approach is used to decide on risk management measures in relation to specific uses, limitations and the context of recommendation of specific control banding to ensure the effective management of risk and sufficient information

No data

8.2 Exposure controls

Equipment and appropriate methods of protection to be used where personal protection is necessary, have been identified appropriate to 07.02.2013 dated and 28695 numbered "Regulation on use of Personal Protective Equipment at Worksite" and to 29/11/2006 dated numbered 26361 "Personal Protective Equipment Regulations". Ensure that appropriate personal protective equipment is used to relevant regulations and requirements. If the product includes components having occupational exposure limits, make personal, work place and biological measurements to determine the efficiency of ventilation and other controls and/or the need for using protective breathing apparatus.



8.2.1 Appropriate Engineering Controls:

To avoid the risk of exceeding the occupational exposure limit values in cases where the employer is appropriate; do the work that will allow to do risk assessment related to Safety and health measures of workers arising from the substance or mixture by considering;
- " Regulation on Health and Safety Precautions Working with carcinogenic and mutagenic substances " (RG.-06.08.2013-28730) and;

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- " Regulation on Health and Safety Precautions by Working with the Chemicals " (RG.-12.08.2013-28733).

Because of the product's environment to avoid the risk of occupational exposure limit value is exceeded and is cleared very well ventilated and make sure of the measures taken.

NIOSH air filtration system in the required fields and dry according to the CE system.

Eye / face wash stations and safety and emergency shower must be installed so as to be close to the work area to be used in case of injury or exposure.

Explosion-proof equipment for ventilation systems should be used.

See Chapter 7.

8.2.2 Personal Protective Measures (Personal Protective Equipment / Hardware)

8.2.2.1 General Protection and Hygiene Measures

Prevent unnecessary exposure.

Use only in well-ventilated place.

Keep away from foodstuffs, drink and animal feed.

Remove immediately all contaminated clothing.

Wash your hands after work and at the work breaks.

Prevent direct contact with eyes and skin.

Use protective gloves/ protective clothing/ eye protection/face protection.

Do not eat, drink and smoke when using this material.

8.2.2.2 Eye / Face protection:

Wear safety glasses.

Face protection in compliance with EN 166 standard is recommended.



8.2.2.3 Skin protection

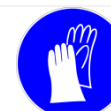
8.2.2.3.1 Hand protection

Wear Viton® /, Butyl rubber gloves.

Gloves must be replaced after each use and whenever signs of wear or perforation appear.

Butyl rubber. Breakthrough time (maximum wearing time): > 8 hours. Viton.

Breakthrough time (maximum wearing time): 1-4 Hours. (EN374).



8.2.2.3.2 Body protection

Wear suitable protective clothing.



8.2.2.4 Respiratory protection

Respiratory protection equipment should be used where exposure through inhalation may occur.

Wear a positive pressure full face self-contained breathing apparatus or a full face supplied air respirator



8.2.2.5 Thermal Damages:

When specifying protective equipment to be worn give special consideration to personal protective equipment against materials that supply heat damage.

8.2.3 Environmental exposure controls

Legislation for the protection of the environment must be fully met.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

	Value
Appearance	Clear liquid
Color	Colorless
Odor	Alcohol odor
Odor Threshold	4.2 - 5960 ppm
pH	Not applicable
Melting Point/ Freezing Point (°C) 760 mmHg	-97.8
Initial Boiling Point and Boiling Range (°C) 760 mmHg	64.7
Flash Point (°C)	11
Relative evaporation rate (butylacetate=1)	4.1
Flammability (solid, gas)	Highly flammable liquid and vapor.
Upper / Lower Flammability or Explosion Limits, vol %C	5.5 – 36.5
Vapor Pressure, kPa @ 20°C	12.8
Vapor Density @ 20°C	1.1
Density, kg/m³	792
Solubility	Miscible with water.
Partition coefficient n-Octanol/Water (log Po/w)	LogPow=-0.77
Auto-ignition temperature	464
Decomposition Temperature	Not available
Viscosity, cP @20 °C	0.8
Explosive Property	Vapors may form explosive mixtures with air.
Oxidation Property	Not explosive
Explanations	Not available

9.2 Other Information

Relative density of saturated gas/air mixture	1.0
Relative density	0.791 – 0.793
Molecular Weight, g/mol	32.04
Other Physical and Chemical Parameters	VOC= %100

Note:The above features were determined according to prescribed methods at the Classification, Packaging and Labeling of Hazardous Substances Regulation Section A-3 or a method comparable to the other.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No hazard is expected due to reactivity.

10.2 Chemical stability

Stable under normal conditions when stored and used regarding instructions.

10.3 Possibility of hazardous reactions

Vapors may form explosive mixtures with air.

Highly flammable liquid and vapor.

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Hygroscopic.

Closed containers may burst and explode in case of fire.

10.4 Conditions to avoid:

Keep away from direct sunlight, open flames, high temperature, ignition sources.

10.5 Incompatible materials:

Oxidizing agents, strong acids, strong bases

Methanol is not compatible with gasket and O-rings materials made of Buna-N and Nitrile.

10.6 Hazardous decomposition products:

<i>Possibility to decompose and turn into unstable products</i>	<i>CO, CO₂ and other hazardous gases may release as a result of incomplete combustion.</i>
<i>Need of stabilizers and stabilizer existence</i>	<i>No data</i>
<i>Hazardous exothermic reaction possibility</i>	<i>No data</i>
<i>If exists, the importance of changes in physical appearance for security.</i>	<i>No data</i>
<i>Harmful decomposition products arising by contact with water</i>	<i>No data</i>
<i>Hazardous decomposition products</i>	<i>CO, CO₂, formaldehyde, flammable gases (CO_x)</i>
<i>Hazardous polymerization products</i>	<i>No data</i>

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxic Effects:

Toxic when if swallowed, inhaled or in contact with skin.

11.1.1 Acute toxicity

Methanol(67-56-1)	
LD50 oral, rat	5600 mg/kg
LD50 dermal, rabbit	15800 mg/kg
LC50 inhalation, rat (ppm)	64000 ppm/4 h rat

11.1.2 Skin corrosion/irritation:

Based on available data, the classification criteria are not met

11.1.3 Serious Eye damage/irritation:

Causes moderate eye irritation.

Based on available data, the classification criteria are not met

11.1.4 Respiratory or skin sensitization:

Based on available data, the classification criteria are not met

11.1.5 Germ cell mutagenicity:

Based on available data, the classification criteria are not met

11.1.6 CMR effects (Carcinogenity) :

Based on available data, the classification criteria are not met

11.1.7 CMR effects (Mutagenicity and Toxicity for reproduction) :

Based on available data, the classification criteria are not met

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11.1.8 Specific Target Organ Toxicity-Single Exposure (STOT-single)	
<i>Causes damage to organs.</i>	
11.1.9 Specific Target Organ Toxicity-Repeated Exposure (STOT-repeated)	
<i>Based on available data, the classification criteria are not met</i>	
11.2 Aspiration:	
<i>Causes damage to organs.</i>	
11.3 Hazard Classes, Information for Differentiation or Effects:	
<i>Flammable Liquids Acute Toxicity Specific Target Organ Toxicity- Single Exposure</i>	
11.4 Hazard Information as placing on the market:	
<ul style="list-style-type: none"> · <i>Flam. Liq. 2</i> · <i>Acute Tox. 3</i> · <i>Acute Tox. 3</i> · <i>Acute Tox. 3</i> · <i>STOT SE. 1</i> 	
11.5 Information on Test Data:	
<i>No data</i>	
11.6 Supporting Additional Info About Classification Criteria:	
<i>No data</i>	
11.7 Potential Exposure Information	
<i>In Eye Contact</i>	<i>Causes eye irritation.</i>
<i>In Skin Contact</i>	<i>Toxic when in contact with skin. May cause severe adverse health effects if absorbed through skin by repeated exposure. Repeated and/or prolonged skin contact may cause irritation.</i>
<i>By inhalation</i>	<i>Toxic if inhaled. May cause dizziness, headache, nausea and loss of coordination after and CNS depression after inhalation. May cause metabolic acidosis and severe visual effects following an 8-24 hour latent period. Coma and death, usually due to respiratory failure, may occur if medical treatment is not received. May cause reduced reactivity and/or increased sensitivity to light, blurred, double and/or snowy vision, and blindness.</i>
<i>By swallowing (Digestion)</i>	<i>Ingestion of 10 ml of methanol may cause blindness and 30 ml may cause death if not treated. Ingestion may cause mild central nervous system (CNS) depression with nausea, headache, vomiting, dizziness, incoordination and an appearance of drunkenness. May cause metabolic acidosis and severe visual effects following an 8-24 hour latent period. Coma and death, usually due to respiratory failure, may occur if medical treatment is not received. May cause reduced reactivity and/or increased sensitivity to light, blurred, double and/or snowy vision, and blindness.</i>
<i>Target Organs</i>	<i>No information</i>
<i>Medical Symptoms</i>	<i>No information</i>

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Medical Alerts	Symptoms must be monitored.
11.8 Information Related to Physical, Chemical and Toxicological Properties	
As far as known the chemical, physical and toxicological properties have not been thoroughly studied.	
11.9 Delayed Side Effects and Chronic Effects Under Short And Long Term Exposure	
May cause severe adverse health effects if absorbed through skin by repeated exposure. Repeated and/or prolonged skin contact may cause irritation. Animal studies has shown that it causes teratogenic and fetotoxic effects although there is no maternal toxicity	
11.10 Interactive Effects	
Effects of interactions between each component in the product have not been thoroughly studied.	
11.11 Absence of Special Data	
No special data	
11.12 Mixture and Substance Comparison Information	
No data available	
11.13 Other Information	
No data available	
11.14 Additional toxicological information::	
Toxicological classification is made on the basis of available and achievable information.	

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Methanol(67-56-1)	
LC50 Fish	15400 - 29400 mg/l 96 h - fish
EC50 Daphnia	> 10000 mg/l 48 h- daphnia
EC50 Other aquatic organisms 1	22000 mg/l 72 h- Selenastrum carpicornutum (Pseudokichnerela subcapitata)

12.2 Persistence and degradability

Persistence Potential at the relevant environment	No data
Biodegradation Potential at the relevant environment	Readily biodegradable.
Degradation potential with Hydrolysis or oxidation	No data
Degradation related to half-life	No data
Waste Water Treatment Plant Impact	As there is no information about inhibitory effect on the activity of micro-organisms, possible impact on waste water treatment plants is unknown.

12.3 Bioaccumulative Potential:

Accumulation potential of the Product in the biological environment (biota)	Methanol(67-56-1): Bioaccumulation is unlikely. Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Passing through the food product potential	No Information

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<i>BCF or log Kow value</i>	<u>Methanol(67-56-1):</u> <i>logPow=0.82</i> <i>BCF (fish) < 10 (Leuciscus idus)</i>
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12.4 Mobility in soil

Liquid.
Miscible with water.
Consider the product's physical and chemical properties in determining environmental mobility.
Refer to ecotoxicity.(Sec.9)

<i>Surface Tension</i>	<i>No Information</i>
<i>Water Threatens Class</i>	<i>WGK=1 (low hazard)</i>
<i>Effects of Drinking Water</i>	<i>No Information</i>
<i>Known or predicted environmental distribution</i>	<i>No Information</i>

12.5 Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT and vPvB criteria of REACH regulation, annex XIII.

12.6 Other Adverse Effects

<i>Thinning Ozone Layer (Decrease) Potential</i>	<i>No Information</i>
<i>Photochemical Ozone Production Potential</i>	<i>No Information</i>
<i>Potential endocrine disruptors</i>	<i>No Information</i>
<i>Global Warming (Greenhouse Effect) Potential</i>	<i>No Information</i>
<i>Other Adverse Effects on Environment and / or environmental behavior (exposure)</i>	<i>None</i>

12.7 Additional information

- *Do not allow the release to the environment,*
- *For accidental measures against the spread to the environment, transport and the disposal of waste, refer to sections 6, 7, 13, 14 and 15.*

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

- *Methanol waste should be handled and stored in a similar manner to methanol products or mixtures.*
- *Collect wastes in closed containers.*
- *Do not mix methanol waste with other wastes.*
- *Re-cycle the wastes as much as possible.*
- *Large quantities may be suitable for re distillation.*
- *Used packings and wastes must be disposed of according to official regulations.*
- *Contact with qualified hazardous waste companies to transport and dispose of wastes.*
- *Prevent penetration to surface and groundwater, drinking water resources and sewer system.*

13.2 Safe Disposal

- *Product should be disposed of in accordance with official regulations.*
- *Do not let the product and the packaging disposed with household waste.*
- *Empty containers may contain hazardous residue.*

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- Empty containers should not be welded, cut or grinded.
- To let go the product to sewers and underground waters it is strictly prohibited.
- Inform the authorities in such cases.



13.3 European Waste Catalogue and Hazardous Waste List Number

- Suggestion: It is recommended to be disposed of in accordance with official regulations.
- Waste codes/waste designations according to LoW.

13.4 Uncleaned Packaging





- Empty containers should be rinsed appropriately with clean water and rinse water should be disposed of as methanol waste.
- Please deliver used packings to institutions or organizations giving waste disposal services.

13.5 Additional Information

- Refer to national and international legislation on waste.
- Do not dispose the waste of the product without controlling the regulations.
- See Section 7 for safe handling methods.

14. TRANSPORT INFORMATION

UN 1230 METHANOL

	ADR ² /RID ³	ADNR ⁴	IMDG ⁵	ICAO ⁶ /IATA ⁷
TRANSPORTATION	ROAD	RIVER	MARINE	AIR WAYS
14.1. UN Number	1230	1230	1230	1230
14.2. UN Proper Shipping Name	UN 1230 METHANOL			
Symbol				
14.3. 3Transport Hazard Class(es)	3	3	3	3
14.4. Packaging Group	II	II	II	II
Classification Code	FT1			
Labelling No	3+6.1	3+6.1	3+6.1	3+6.1
Hazard No(HIN No)	336			
Tunnel Restriction Code	-			
EmS			F-E;S-D	
Limited Quantities (LQ)	-	-	-	-
14.5. Environmental Hazards MARINE Pollutant			No	
14.6. Special Precautions for User	No data available			
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable			
Road Transport Notes: This product is NOT regulated as a hazardous material.				

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15. REGULATORY INFORMATION

15.1 Private security, health and environmental legislation for the substance or mixture:

Product is classified and labeled according to the principles and procedures of; "Classification Labelling and Packaging of substances and mixtures in and of "EU legislation". Please refer to the following regulations or other national measures that are related.

- Regulation on Safety Data Sheets Relating to Hazardous substances and mixtures
- Regulation on Classification Labelling and Packaging of substances and mixtures,
- Regulations on Restrictions on supply to the market and use of certain Hazardous Substances, Preparations and Goods.
- Occupational Health and Safety Regulation
- Regulation on Health and Safety Precautions while working with carcinogenic and mutagenic substances
- Regulation on Health and Safety Precautions while working with the Chemicals
- Regulation on the Use of Personal Protective Equipment in Workplaces
- Manual Handling Regulations
- Control of Hazardous Waste Regulation
- Prevention and Mitigation the Effects of Major Industrial Accidents Regulation
- The product does not contain any SVCH materials.

16. OTHER INFORMATION

16.1 Legal Instruments

This document is prepared and approved by an expert staff accredited in accordance with Regulation on the Safety Data Sheets for Hazardous substances and mixtures (13/12/2014 Date and Official Gazette No. 29204) and (EC) No 91/155/EEC, 2001/58/EC, ISO 11014-1.

16.2 Safety Data Sheet Prepared / Edited / Published by

- On behalf of: **Methanex Europe S.A.**
- Doruk Chemical Management Systems, Engineering, Technology & Consultancy Inc. Co.
- Prepared by: M. Barış NAİM (baris.naim@doruksistem.com.tr)
- Specialist Accreditation No: **TÜRKAK GBF-01.27.01 07.05.2014**
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16.2.1 Contact Person

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16.3 Revision Date

- August 25, 2016

16.4 SDS no

- 327052

16.5 Version no

- 4.0

16.6 Arrangements done / Comments

- Compiling according to Regulation December 13, 2014 No. 29204.

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16.7 Relevant H- and EUH-phrases (Precautionary Statements and hazardousness of substances listed in Section 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.

16.8 Descriptions Regarding to the hazard Classification Method (phrases that used to define which evaluating methods are used to classify the informations referred to Article 11 of the Regulation on Classification Labelling and Packaging of substances and mixtures)

Flam. Liq. 2	<p><u>Classification Definition</u> Flammable liquid means a liquid having a flash point of not more than 60 ° C.</p> <p><u>Category Definition</u> Flash point < 23 o C and initial boiling point > 35 ° C</p>
Acute Tox. 3(Oral)	<p><u>Classification Definition</u> Acute toxicity means those adverse effects occurring following oral or dermal administration of a single dose of a substance or a mixture, or multiple doses given within 24 hours, or an inhalation exposure of 4 hours.</p> <p><u>Category Definition</u> Oral (mg/kg bodyweight); 50 < ATE ≤ 300</p>
Acute Tox. 3(Dermal)	<p><u>Classification Definition</u> Acute toxicity means those adverse effects occurring following oral or dermal administration of a single dose of a substance or a mixture, or multiple doses given within 24 hours, or an inhalation exposure of 4 hours.</p> <p><u>Category Definition</u> Dermal (mg/kg bodyweight); 200 < ATE ≤ 1 000</p>
Acute Tox. 3 (Inhalation)	<p><u>Classification Definition</u> Acute toxicity means those adverse effects occurring following oral or dermal administration of a single dose of a substance or a mixture, or multiple doses given within 24 hours, or an inhalation exposure of 4 hours.</p> <p><u>Category Definition</u> Gases (ppmV (1)); 500 < ATE ≤ 2 50 Vapours (mg/l); 2,0 < ATE ≤ 10,0 Dusts and mists (mg/l); 0,5 < ATE ≤ 1,0</p>
STOT SE. 1	<p><u>Classification Definition</u> Specific target organ toxicity (single exposure) is defined as specific, non-lethal target organ toxicity arising from a single exposure to a substance or mixture.</p> <p><u>Category Definition</u> Substances that have produced significant toxicity in humans or that, on</p>

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the basis of evidence from studies in experimental animals, can be presumed to have the potential to produce significant toxicity in humans following single exposure Substances are classified in Category 1 for specific target organ toxicity (single exposure) on the basis of:

- (a) reliable and good quality evidence from human cases or epidemiological studies; or*
- (b) observations from appropriate studies in experimental animals in which significant and/or severe toxic effects of relevance to human health were produced at generally low exposure concentrations.*

16.9 Other Topics

- *Please contact our sales department for limitations and advices on how to use the product.*
- *It is recommended to take the appropriate training to read and use of SDS and labels for the protection of human health and environment.*
- *Key Sources of data used in the preparation of this safety data sheet;*
 - *Safety data sheet of the product prepared by the Methanex Europe S.A.*
 - *"Regulation About Safety Data Sheets Relating to Hazardous Substances and mixtures" and its annexes,*
 - *" Regulation on Classification Labelling and Packaging of substances and mixtures" and its annexes,*
 - *" Regulation on Health and Safety Precautions while working with carcinogenic and mutagenic substances " its annexes,*
 - *Other relevant national regulations*
 - *UN ADR, IMDG, IATA lists, ECHA and the relevant EU directives,*
 - *Other helpful resources.*

16.10 Additional Information

- *The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.*
- *The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.*
- *The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.*
- *Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.*
- *The purpose of the above information is to describe the product only in terms of health and safety requirements.*
- *The information given should not, therefore, be construed as guaranteeing specific properties or as specification.*

¹ GBF: Güvenlik Bilgi Formu

² ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

³ RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

⁴ ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways



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⁵ IMDG: International Maritime Code for Dangerous Goods

⁶ ICAO: International Civil Aviation Organization

⁷ IATA: International Air Transport Association