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 ≥ 10%, STOT SE 2; H371: 3% ≤ 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

Methanol	**67-56-1**
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]

	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

	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

	Potential for cutaneous absorption
Slovenia	200 ppm TWA ; 260 mg/m3 TWA
Spain:	200 ppm TWA [VLA-ED] (indicative limit value); 266 mg/m3 TWA [VLA-ED] (indicative limit value)
	skin - potential for cutaneous exposure
Sweden:	200 ppm LLV ; 250 mg/m3 LLV
	250 ppm Indicative STLV ; 350 mg/m3 Indicative STLV
	Skin notation
United Kingdom:	200 ppm TWA ; 266 mg/m3 TWA
	250 ppm STEL ; 333 mg/m3 STEL
	Potential for cutaneous absorption

Component Biological Exposure Limits

Methanol	**67-56-1**
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)

Methanol	**67-56-1**
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	40 mg/kg bw/day
Acute - systemic effects, inhalation	260 mg/m³
Acute - local effects, dermal	not quantifiable
Acute - local effects, inhalation	260 mg/m³
Long-term - systemic effects, dermal	40 mg/kg bw/day
Long-term - systemic effects, inhalation	260 mg/m³
Long-term - local effects, dermal	not quantifiable
Long-term - local effects, inhalation	260 mg/m³
DNEL/DMEL (General population)	

Acute - systemic effects, dermal	8 mg/kg bw/day
Acute - systemic effects, inhalation	50 mg/m³
Acute - systemic effects, oral	8 mg/kg bw/day
Acute - local effects, dermal	not quantifiable
Acute - local effects, inhalation	50 mg/m³
Long-term - systemic effects, dermal	8 mg/kg bw/day
Long-term - systemic effects, inhalation	50 mg/m³
Long-term - systemic effects, oral	8 mg/kg bw/day
Long-term - local effects, dermal	not quantifiable
Long-term - local effects, inhalation	50 mg/m³

Predicted No Effect Concentrations (PNECs)

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

Appearance	clear	**Physical State**	liquid
Odor	alcohol odor	**Color**	colorless
Odor Threshold	4.2 - 5960 ppm	**pH**	Not applicable
Melting Point	-97.8 °C	**Boiling Point**	64.7 °C
Boiling Point Range	Not available	**Freezing point**	-97.6 °C
Evaporation Rate	4.1 (butyl acetate = 1)	**Flammability (solid, gas)**	Not applicable
Autoignition Temperature	464 °C	**Flash Point**	11 °C
Lower Explosive Limit	5.5 %	**Decomposition temperature**	Not available
Upper Explosive Limit	36.5 %	**Vapor Pressure**	12.8 kPa (@ 20 °C)
Vapor Density (air=1)	1.1 (@ 20 °C)	**Specific Gravity (water=1)**	792 kg/m³
Water Solubility	Not available	**Partition coefficient: n-octanol/water**	0.82
Viscosity	0.8 cP (25 °C, dynamic)	**Solubility (Other)**	Not available
Density	0.791 - 0.793 at 20 °C	**VOC**	100 %
Molecular Weight	32.04 (g/mol)	**Critical Temperature**	239.4 °C
Oxidising properties	Not oxidising	**Explosive properties**	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

Methanol	**67-56-1**
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.

Methanol	**67-56-1**
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

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

Methanol	**67-56-1**
	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;

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.