

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

### 1.1. Product identifier

Trade name or designation of the mixture	ThinPrep® PreservCyt Solution
Registration number	-
Synonyms	None.
SDS number	85952-001 Rev,002
Product code	70098-002, ASY-05401
Issue date	11-September-2012
Version number	01
Revision date	-
Supersedes date	-

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

Identified uses	A methanol based, buffered preservative solution used to support cells during transport and slide preparation.
Uses advised against	None known.

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

Manufacturer	Hologic Inc.
Address	250 Campus Drive Marlborough, Massachusetts, 01752 USA
Telephone	(800) 442-9892
Contact	
Emergency telephone	3E Hotline: 1-866-519-4752 Access Code: 333605
Email	sds@hologic.com
Supplier	Hologic UK Limited
Address	Unit 2, Link 10, Napier Way, Crawley West Sussex, RH10 9RA United Kingdom
Telephone	+44 1293 522 080
Contact	
Emergency telephone	3E Hotline: +1-760-476-3961 Access Code: 333605
Email	sds@hologic.com

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification R10, T;R23/24/25-39/23/24/25

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Physical hazards

Flammable liquids	Category 3	H226 - Flammable liquid and vapour.
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##### Health hazards

Acute toxicity, oral	Category 3	H301 - Toxic if swallowed.
Acute toxicity, dermal	Category 3	H311 - Toxic in contact with skin.
Acute toxicity, inhalation	Category 3	H331 - Toxic if inhaled.
Specific target organ toxicity - single exposure	Category 1	H370 - Causes damage to organs (Central nervous system, liver and kidneys).


### Hazard summary

Physical hazards	Flammable.
Health hazards	Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Occupational exposure to the substance or mixture may cause adverse health effects.

<b>Environmental hazards</b>	Not classified for hazards to the environment.
<b>Specific hazards</b>	Methanol: Human exposure to methanol may result in illness, systemic poisoning, blindness, optic nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some cases from consumption of as little as 30 mls.
<b>Main symptoms</b>	Prolonged and repeated exposure to high vapour concentrations, skin absorption or ingestion of methanol may result in visual disturbances, metabolic acidosis, headache, giddiness, nausea, insomnia, gastric disturbance, dizziness, and slow breathing. There have been severe cases reported of blindness, coma and death due to the ingestion of methanol.

## 2.2. Label elements

### Label according to Regulation (EC) No. 1272/2008 as amended

<b>Contains:</b>	Methanol
<b>Hazard pictograms</b>	
<b>Signal word</b>	Danger
<b>Hazard statements</b>	H226 - Flammable liquid and vapour. H301 - Toxic if swallowed. H311 - Toxic in contact with skin. H331 - Toxic if inhaled. H370 - Causes damage to organs (Central nervous system, liver and kidneys).

### Precautionary statements

<b>Prevention</b>	P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P271 - Use only outdoors or in a well-ventilated area. P264 - Wash thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response</b>	P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P370 + P378 - In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder or water fog for extinction. P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. P330 - Rinse mouth. P363 - Wash contaminated clothing before reuse. P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. P311 - Call a POISON CENTRE or doctor/physician. P307 + P311 - IF exposed: Call a POISON CENTRE or doctor/physician.
<b>Storage</b>	P403 - Store in a well-ventilated place. P235 - Keep cool. P405 - Store locked up. P233 - Keep container tightly closed.
<b>Disposal</b>	Dispose of waste and residues in accordance with local authority requirements.

**Supplemental label information** Not applicable.

**2.3. Other hazards** None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Water	40 - 70	7732-18-5 231-791-2	-	-	

**Classification:** DSD: -  
CLP: -

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Methanol	30 - 60	67-56-1 200-659-6	-	603-001-00-X	#
<b>Classification:</b>	<b>DSD:</b> F;R11, T;R23/24/25-39/23/24/25				
	<b>CLP:</b> Flam. Liq. 2;H225, Acute Tox. 3;H301, Acute Tox. 3;H311, Acute Tox. 3;H331, STOT SE 1;H370				

#: This substance has been assigned Community workplace exposure limit(s).  
CLP: Regulation No. 1272/2008.  
DSD: Directive 67/548/EEC.

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.  
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## SECTION 4: First aid measures

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 4.1. Description of first aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.

**Skin contact** Take off immediately all contaminated clothing. Immediately flush thoroughly with water for at least 15 minutes. Get medical attention immediately. Wash contaminated clothing before reuse.

**Eye contact** Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. If irritation persists: Continue flushing during transport to hospital. Take along these instructions.

**Ingestion** Do not induce vomiting without advice from medical personnel. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**4.2. Most important symptoms and effects, both acute and delayed** Prolonged and repeated exposure to high vapour concentrations, skin absorption or ingestion of methanol may result in visual disturbances, metabolic acidosis, headache, giddiness, nausea, insomnia, gastric disturbance, dizziness, and slow breathing. There have been severe cases reported of blindness, coma and death due to the ingestion of methanol.

**4.3. Indication of any immediate medical attention and special treatment needed** Treat for CNS depression and possible renal failure. Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Ethanol and fomepizole are effective antidotes for methanol poisoning, although fomepizole is preferred.

## SECTION 5: Firefighting measures

**General fire hazards** Flammable liquid and vapour. Vapours are heavier than air and may travel along the ground to some distant source of ignition and flash back. Vapours may form explosive mixtures with air. Containers can burst violently when heated, due to excess pressure build-up.

### 5.1. Extinguishing media

**Suitable extinguishing media** Dry chemical, foam, carbon dioxide. Water may be an ineffective extinguishing medium.

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

**5.2. Special hazards arising from the substance or mixture** Heating will generate vapours which may form explosive vapour/air mixtures.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Special fire fighting procedures** Evacuate area. Move containers from fire area if you can do it without risk. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply. Use standard firefighting procedures and consider the hazards of other involved materials. Use water spray to cool unopened containers.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear suitable protective clothing, gloves and eye/face protection. Wear protective clothing as described in section 8 of this safety data sheet. Follow standard emergency procedure.

<b>For emergency responders</b>	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
<b>6.2. Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Avoid discharge to the aquatic environment.
<b>6.3. Methods and material for containment and cleaning up</b>	Immediately contact emergency personnel. Remove sources of ignition. Beware of the explosion danger. Use non-sparking tools and explosion-proof equipment. Absorb spillage with non-combustible, absorbent material. Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. For waste disposal, see Section 13.
<b>6.4. Reference to other sections</b>	For personal protection, see section 8. For waste disposal, see section 13.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Use only with adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapours. The product is highly flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. Ground container and transfer equipment to eliminate static electric sparks. Use non-sparking hand tools and explosion-proof electrical equipment. Vapours are heavier than air and may travel along the floor and in the bottom of containers. Avoid release to the environment.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Follow rules for flammable liquids. Keep away from heat, spark, open flames and other sources of ignition. Keep container tightly closed in a cool, well-ventilated place. Store away from incompatible materials. Keep out of the reach of children.  Storage temperature: Without cytologic sample: 59-86°F (15-30°C) With cytologic samples, for up to six weeks: 39-99°F (4-37°C)
<b>7.3. Specific end use(s)</b>	For laboratory use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Austria. MAK List

Components	Type	Value
Methanol (CAS 67-56-1)	MAK	260 mg/m <sup>3</sup>
		200 ppm
	STEL	1040 mg/m <sup>3</sup>
		800 ppm

##### Belgium. Exposure Limit Values.

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	333 mg/m <sup>3</sup>
		250 ppm
	TWA	266 mg/m <sup>3</sup>
		200 ppm

##### Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup>

##### Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup>
		200 ppm

##### Czech Republic. OELs. Government Decree 361

Components	Type	Value
Methanol (CAS 67-56-1)	Ceiling	1000 mg/m <sup>3</sup>
	TWA	250 mg/m <sup>3</sup>

##### Denmark. Exposure Limit Values

Components	Type	Value
Methanol (CAS 67-56-1)	TLV	260 mg/m <sup>3</sup>
		200 ppm

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	350 mg/m <sup>3</sup>
		250 ppm
	TWA	250 mg/m <sup>3</sup>
		200 ppm

**Finland. Workplace Exposure Limits**

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	330 mg/m <sup>3</sup>
		250 ppm
	TWA	270 mg/m <sup>3</sup>
		200 ppm

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
Methanol (CAS 67-56-1)	VLE	1300 mg/m <sup>3</sup>
		1000 ppm
	VME	260 mg/m <sup>3</sup>
		200 ppm

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	270 mg/m <sup>3</sup>
		200 ppm

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value
Methanol (CAS 67-56-1)	AGW	270 mg/m <sup>3</sup>
		200 ppm

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	325 mg/m <sup>3</sup>
		250 ppm
	TWA	260 mg/m <sup>3</sup>
		200 ppm

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup>

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup>
		200 ppm

**Ireland. Occupational Exposure Limits**

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup>
		200 ppm

**Italy. OELs**

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup>
		200 ppm

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup>

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value
		200 ppm

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)**

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup> 200 ppm

**Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A**

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup> 200 ppm

**Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)**

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup> 200 ppm

**Netherlands. OELs (binding)**

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	133 mg/m <sup>3</sup>

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value
Methanol (CAS 67-56-1)	TLV	130 mg/m <sup>3</sup> 100 ppm

**Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment**

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	300 mg/m <sup>3</sup>
	TWA	100 mg/m <sup>3</sup>

**Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)**

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup>

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	5 ppm
	TWA	260 mg/m <sup>3</sup> 200 ppm

**Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents**

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup> 200 ppm

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup> 200 ppm

**Spain. Occupational Exposure Limits**

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	266 mg/m <sup>3</sup> 200 ppm

**Sweden. Occupational Exposure Limit Values**

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	350 mg/m <sup>3</sup> 250 ppm
	TWA	250 mg/m <sup>3</sup> 200 ppm

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	1040 mg/m <sup>3</sup> 800 ppm
	TWA	260 mg/m <sup>3</sup> 200 ppm

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	333 mg/m <sup>3</sup> 250 ppm
	TWA	266 mg/m <sup>3</sup> 200 ppm

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU**

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup> 200 ppm

**Biological limit values****France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065))**

Components	Value	Determinant	Specimen	Sampling time
Methanol (CAS 67-56-1)	15 mg/l	Méthanol	Urine	*

\* - For sampling details, please see the source document.

**Germany. TRGS 903, BAT List (Biological Limit Values)**

Components	Value	Determinant	Specimen	Sampling time
Methanol (CAS 67-56-1)	30 mg/l	Methanol	Urine	*

\* - For sampling details, please see the source document.

**Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices**

Components	Value	Determinant	Specimen	Sampling time
Methanol (CAS 67-56-1)	25 %	red blood cell or total blood acetylcholinesterase activity (EC. 3.1.1.7.)	Reduction from individual baseline activity in red blood cells	*

\* - For sampling details, please see the source document.

**Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)**

Components	Value	Specimen	Sampling time
Methanol (CAS 67-56-1)	30 mg/l	Urine	*

\* - For sampling details, please see the source document.

**Recommended monitoring procedures** Follow standard monitoring procedures.

## Derived no-effect level (DNEL)

Components	Type	Route	Value	Form
Methanol (CAS 67-56-1)	Workers	Dermal	40 mg/kg/day	Acute Systemic effects
		Dermal	40 mg/kg/day	Long term Systemic effects
		Inhalation	260 mg/m3	Acute Local effects
		Inhalation	260 mg/m3	Acute Systemic effects
		Inhalation	260 mg/m3	Long term Local effects
		Inhalation	260 mg/m3	Long term Systemic effects

## Predicted no effect concentrations (PNECs)

Components	Type	Route	Value	Form
Methanol (CAS 67-56-1)	Aqua (freshwater)	Water	154 mg/l	
	Aqua (intermittent releases)	Water	1540 mg/l	
	Aqua (marine water)	Water	15,4 mg/l	
	Sediment (freshwater)	Not applicable	570,4 mg/kg	
	Sewage Treatment Plant	Not applicable	100 mg/l	
	Soil	Soil	23,5 mg/kg	

## 8.2. Exposure controls

**Appropriate engineering controls** Observe occupational exposure limits and minimise the risk of exposure. Explosion-proof general and local exhaust ventilation. Use explosion-proof equipment.

### Individual protection measures, such as personal protective equipment

**General information** Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** Wear approved safety goggles.

#### Skin protection

##### - Hand protection

Wear protective gloves. Nitrile gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

##### - Other

Wear appropriate clothing to prevent repeated or prolonged skin contact.

#### Respiratory protection

In case of inadequate ventilation or when the product is heated, use suitable respiratory equipment with gas filter (type A2). When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

#### Hygiene measures

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices. Launder contaminated clothing before reuse. Observe any medical surveillance requirements.

#### Environmental exposure controls

Environmental manager must be informed of all releases.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Clear, colourless liquid.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Colour</b>	Colorless
<b>Odour</b>	Alcohol.
<b>Odour threshold</b>	Not available.
<b>pH</b>	5,5
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	26,7 °C (80 °F)
<b>Flash point</b>	80 °C (176 °F) Closed cup
<b>Flammability (solid, gas)</b>	Not applicable.



## Upper/lower flammability or explosive limits

<b>Flammability limit - lower (%)</b>	6,7 %
<b>Flammability limit - upper (%)</b>	36 %
<b>Solubility(ies)</b>	miscible
<b>Partition coefficient (n-octanol/water)</b>	No data available.
<b>Auto-ignition temperature</b>	385 °C (725 °F)
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not applicable.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.

## 9.2. Other information

<b>Percent volatile</b>	> 99 %
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## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>10.4. Conditions to avoid</b>	Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Confined space.
<b>10.5. Incompatible materials</b>	Strong oxidising agents. Reducing Agents. Acids. Alkali metals. Metal powders. Potassium. Sodium. Anhydrides. Acid chlorides. Aluminium. Magnesium.
<b>10.6. Hazardous decomposition products</b>	Carbon oxides. Formaldehyde.

## SECTION 11: Toxicological information

<b>General information</b>	Not available.
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### Information on likely routes of exposure

<b>Ingestion</b>	Toxic if swallowed. Even small amounts (30-250 ml methanol) may be fatal. Symptoms are stomach ache, nausea, vomiting, dullness, visual disorder and blindness.
<b>Inhalation</b>	Toxic if inhaled. May cause central nervous system effects.
<b>Skin contact</b>	Toxic in contact with skin. May be absorbed through the skin.
<b>Eye contact</b>	May irritate eyes.

<b>Symptoms</b>	Prolonged and repeated exposure to high vapour concentrations, skin absorption or ingestion of methanol may result in visual disturbances, metabolic acidosis, headache, giddiness, nausea, insomnia, gastric disturbance, dizziness, and slow breathing. There have been severe cases reported of blindness, coma and death due to the ingestion of methanol.
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### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Causes skin and eye irritation. May cause central nervous system effects. Toxic by inhalation, in contact with skin and if swallowed. Even small amounts (30-250 ml methanol) may be fatal. Symptoms are stomach ache, nausea, vomiting, dullness, visual disorder and blindness.
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<b>Components</b>	<b>Species</b>	<b>Test results</b>
Methanol (CAS 67-56-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	15800 mg/kg
<i>Inhalation</i>		
LC50	Rat	87,5 mg/l, 6 Hours
<i>Oral</i>		
LD50	Rat	5628 mg/kg
<b>Skin corrosion/irritation</b>	May be absorbed through the skin.	
<b>Serious eye damage/irritation</b>	May cause eye irritation.	
<b>Respiratory sensitisation</b>	No data available.	
<b>Skin sensitisation</b>	Not available.	

<b>Germ cell mutagenicity</b>	No data available.
<b>Carcinogenicity</b>	Not available.
<b>Reproductive toxicity</b>	The information located does not suggest that methanol is a reproductive toxin.
<b>Specific target organ toxicity - single exposure</b>	Central nervous system. Respiratory tract. Kidneys. Liver.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Swallowing or vomiting of the liquid may result in aspiration into the lungs.
<b>Mixture versus substance information</b>	Not applicable.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test results
Methanol (CAS 67-56-1)		
<b>Aquatic</b>		
Crustacea	EC50 Water flea ( <i>Daphnia magna</i> )	> 10000 mg/l, 48 hours
Fish	LC50 Fathead minnow ( <i>Pimephales promelas</i> )	> 100 mg/l, 96 hours

**12.2. Persistence and degradability** No data available.

**12.3. Bioaccumulative potential** No data available.

**Partition coefficient n-octanol/water (log Kow)** No data available.

Methanol -0,77

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** No data available.

**12.6. Other adverse effects** The product contains a substance which has a photochemical ozone creation potential.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Do not discharge into rivers, lakes, mountains, etc. because the product may affect the environment.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	16 03 05*
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not discharge into drains, water courses or onto the ground. Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

<b>14.1. UN number</b>	UN1992
<b>14.2. UN proper shipping name</b>	Flammable liquids, toxic, n.o.s. (Methanol)
<b>14.3. Transport hazard class(es)</b>	3
<b>Subsidiary class(es)</b>	6.1
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	No
<b>Tunnel restriction code</b>	Not available.
<b>Labels required</b>	3, 6.1
<b>14.6. Special precautions for user</b>	Not available.

### RID

<b>14.1. UN number</b>	UN1992
<b>14.2. UN proper shipping name</b>	Flammable liquids, toxic, n.o.s. (Methanol)

14.3. Transport hazard class(es) 3  
Subsidiary class(es) 6.1  
14.4. Packing group III  
14.5. Environmental hazards No  
Labels required 3, 6.1  
14.6. Special precautions for user Not available.

#### ADN

14.1. UN number UN1992  
14.2. UN proper shipping name Flammable liquids, toxic, n.o.s. (Methanol)  
14.3. Transport hazard class(es) 3  
Subsidiary class(es) 6.1  
14.4. Packing group III  
14.5. Environmental hazards No  
Labels required 3, 6.1  
14.6. Special precautions for user Not available.

#### IATA

14.1. UN number UN1992  
14.2. UN proper shipping name Flammable liquids, toxic, n.o.s. (Methanol)  
14.3. Transport hazard class(es) 3  
Subsidiary class(es) 6.1  
14.4. Packing group III  
14.5. Environmental hazards Not available.  
Labels required 3, 6.1  
ERG Code Not available.  
14.6. Special precautions for user Not available.

#### IMDG

14.1. UN number UN1992  
14.2. UN proper shipping name Flammable liquids, toxic, n.o.s. (Methanol)  
14.3. Transport hazard class(es) 3  
Subsidiary class(es) 6.1  
14.4. Packing group III  
14.5. Environmental hazards  
Marine pollutant No  
Labels required 3, 6.1  
14.6. Special precautions for user Not available.  
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code This substance/mixture is not intended to be transported in bulk.

## SECTION 15: Regulatory information

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

#### EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I  
Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II  
Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended  
Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended  
Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**  
Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**  
Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended**  
Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**  
Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA**  
Not listed.

#### Authorisations

**Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation**  
Not listed.

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**  
Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**  
Not regulated.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding**  
Not regulated.

#### Other EU regulations

**Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances**  
Not regulated.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**  
Methanol (CAS 67-56-1)

**Directive 94/33/EC on the protection of young people at work**  
Methanol (CAS 67-56-1)

#### Other regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

#### National regulations

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

### SECTION 16: Other information

#### List of abbreviations

DNEL: Derived No-Effect Level. PNEC: Predicted No-Effect Concentration.

#### References

Not available.

#### Information on evaluation method leading to the classification of mixture

The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.

#### Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R10 Flammable.  
R11 Highly flammable.  
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.  
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.

#### Training information

Follow training instructions when handling this material.

#### Disclaimer

THE INFORMATION CONTAINED IN THIS DOCUMENT RELATES TO THIS SPECIFIC MATERIAL AND MAY NOT BE VALID IF THE MATERIAL IS USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OR HER OWN PARTICULAR USE.