

According to 1907/2006/EC, Article 31

Date prepared: 28<sup>th</sup> March 2006

Revision: 16<sup>th</sup> April 2020

Version: 04-20/320101

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Product Name:** PreTect TM  
**Article number:** 400101/ 400901/ 420101/420102

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

**Relevant identified uses:** SU 22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
 SU 20 Health services  
 SU 24 Scientific research and development

**Uses advised against:** None

### 1.3 Details of the Supplier of the Safety Data Sheet

**Manufacturer/Supplier:** PreTect AS  
 Ustadhagan 8  
 N-3490 Klokkarstua  
 Norway

**Telephone:** +47 32 79 88 00  
**Email:** [prelect@prelect.no](mailto:prelect@prelect.no)

**1.4 Emergency telephone number:** +47 32 79 88 00  
**Opening hours:** Only available during office hours

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to 1272/2008 (CLP):** *Flammable liquid (Flam. Liq. 3)*  
*Acute toxicity (Acute Tox. 4)*  
 Specific target organ toxicity - single exposure (STOT SE 1)

### 2.2 Label elements

**Hazard pictograms:**



**Signal word:** Warning Warning Danger

**Hazard statements:** H226 Flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H332 Harmful if inhaled.

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H370 Causes damage to organs.

**Precautionary statements:**

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301/ P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P307/ P311	IF exposed: Call a POISON CENTER or doctor/physician.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

Component	Identification	Wt. %	Classification according to 67/548/EEC	Classification according to Regulation (EC) No 1278/2008 (CLP)
Methanol	EC No: 200-659-6 CAS No: 67-56-1 Index No: 603-001-00-X	25-75 %	F; R11 T; R23/24/25-39/23/24/25	Flam. Liq. 2 Acute Tox. 3 STOT SE 1 H225 H331 H311 H301 H370

#### Additional information:

For full text of H and P-statements: see SECTION 16.

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance

**- following inhalation:** If inhaled, move person into fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**- following skin contact:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes

**- following eye contact:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

**- following ingestion:** If swallowed, wash out mouth with water provided person is conscious.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 and/or in section 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed

See section 4.1.

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## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media:** Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

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

Carbon Monoxide and Carbon Dioxide

### 5.3 Advice for fire fighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. FLAME INVISIBLE IN DAYLIGHT

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## 6. ACCIDENTAL RELEASE MEASURES

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

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

Do not allow material to enter drains or water courses.

### 6.3 Methods and material for containment and cleaning up

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

### 6.4 Reference to other sections

For personal protection see section 8. For disposal see section 13.

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## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Do not breathe vapour. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Keep away from sources of ignition - No smoking.

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**7.2 Conditions for safe storage, including any incompatibilities** Keep container closed. Keep away from heat, sparks, and open flame.

**7.3 Specific end use(s)** See section 1.2

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

**EC No:** 200-659-6  
**CAS No:** 67-56-1  
**Name:** Methanol  
**8h-TWA:** 260 mg/m<sup>3</sup>  
200 ppm

### 8.2 Exposure controls

**Appropriate engineering controls:** Safety shower and eye bath. Use non-sparking tools. Use only in a chemical fume hood. Avoid contact with eyes, skin, and clothing.

**Respiratory protection:** Government approved respirator.

**Eye/face protection:** Chemical safety goggles.

**Hand protection:** Compatible chemical-resistant gloves.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

**Form:** Liquid  
**Colour:** Colourless  
**Odour:** Alcohol type odour  
**Odour Threshold:** No data available  
**pH:** No data available  
**Melting point:** -98 °C (methanol)  
**Boiling point:** 64,7 °C (methanol)  
**Flash point:** 24 °C (Zetaflash instrument)  
**Upper/lower flammability or explosive limits:** LEL-6 UEL-36 (methanol)  
**Vapour Pressure:** 169,27 hPa at 25,0 °C (methanol)  
**Vapour Density:** 1.1 (methanol)  
**Solubility in Water:** Complete  
**Auto-ignition temperature:** 385 °C

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## 10. STABILITY AND REACTIVITY

<b>10.1. Reactivity</b>	No data available
<b>10.2. Chemical stability</b>	Stable
<b>10.3. Possibility of hazardous reactions</b>	No data available
<b>10.4. Conditions to avoid</b>	Heat, flames and sparks, extremes of temperature and direct sunlight
<b>10.5. Incompatible materials</b>	Acids, Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents
<b>10.6. Hazardous decomposition products</b>	Carbon monoxide, Carbon dioxide.

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## 11. TOXICOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>	For methanol (product not tested as a mixture)
<b>Acute toxicity</b>	
<b>LC50 Inhalation rat 4 h:</b>	128,2 mg/l
<b>LD50 Oral rat:</b>	1187-2769 mg/kg
<b>LD50 Dermal rabbit:</b>	17100 mg/kg
<b>Skin corrosion/irritation</b>	
<b>Skin – rabbit:</b>	No skin irritation
<b>Serious eye damage/eye irritation</b>	
<b>Eyes – rabbit:</b>	No eye irritation
<b>Respiratory or skin sensitisation</b>	
<b>Maximisation test – guinea pig:</b>	Does not cause skin sensitisation (OECD Test Guideline 406)
<b>Germ cell mutagenicity</b>	No observed mutagenicity in microorganisms, mammalian cells and in vitro tests
<b>Carcinogenicity</b>	Not identified as probable, possible or confirmed carcinogen by IARC
<b>Reproductive toxicity</b>	Fertility classification not possible from current data
<b>STOT – single exposure</b>	Causes damage to organs
<b>STOT – repeated exposure</b>	The substance or mixture is not classified as specific target organ toxicant, repeated exposure

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**Additional information**

**Ingestion:** May be fatal, cause blindness, headache, dizziness, drowsiness, coma

**Central nervous system:** Breathing difficulties

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**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Methanol has very low aquatic toxicity

**Toxicity to fish:** Lepomis macrochirus:  
96hLC50 = 15400 mg/l

**Toxicity to daphnia and other aquatic invertebrates:** Daphnia magna:  
48hEC50 = > 10000 mg/l

**Toxicity to algae:** Scenedesmus capricornutum:  
96hEC50 = 22000 mg/l

**12.2 Persistence and degradability**

Methanol is rapidly biodegradable

**BOD/COD:** 0.4 – 0.8  
**BOD10:** 63-88 % of TOD  
**BOD20:** 67-97 % of TOD

**12.3 Bioaccumulative potential**

BCF < 10 fish (calculated)

**12.4 Mobility in soil**

Will not adsorb on soil

**12.5 Results of PBT and vPvB assessment**

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

**12.6 Other adverse effects**

None

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**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

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## 14. TRANSPORT INFORMATION

14.1 UN number	1986
14.2 UN proper shipping name	Alcohols, flammable, toxic, n.o.s.
14.3 Transport hazard class(es)	3 (6.1)
ADR/RID class:	3
ADR class code:	FT1
ADR/RID hazard identification no:	36
ADR/RID limited quantities:	5L
ADR/RID excepted quantities:	E1
	The product are transported either as LQ or EQ
14.4 Packaging group	III
14.5 Environmental hazards	None
14.6 Special precautions for user	Avoid contact with skin and eyes. Do not breathe vapour.

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## 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	EC regulation 1272/2008 (CLP) ADR (2013)
15.2 Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier



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## 16. OTHER INFORMATION

### Hazard statements:

H226 Flammable liquid and vapour.  
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H332 Harmful if inhaled.  
H370 Causes damage to organs.

### Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301/  
P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P307/  
P311 IF exposed: Call a POISON CENTER or doctor/physician.

### Further information

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is correct and complete to the best of our present knowledge and is given in good faith, but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

For In Vitro Diagnostic use only. Not for drug, household or other uses.