



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 7.4

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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

### 1.1 Product identifiers

Product name : Methyl alcohol

Product Number : PHR1372

Brand : Sigma-Aldrich

Index-No. : 603-001-00-X

REACH No. : 01-2119433307-44-XXXX

CAS-No. : 67-56-1

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

Identified uses : Laboratory chemicals, Manufacture of substances

### 1.3

CHEMIKART

### 1.4 Emergency telephone

Emergency Phone # : 000 800 1007 141 (CHEMTREC)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

|                                                                 |                                          |
|-----------------------------------------------------------------|------------------------------------------|
| Flammable liquids, (Category 2)                                 | H225: Highly flammable liquid and vapor. |
| Acute toxicity, (Category 3)                                    | H301: Toxic if swallowed.                |
| Acute toxicity, (Category 3)                                    | H331: Toxic if inhaled.                  |
| Acute toxicity, (Category 3)                                    | H311: Toxic in contact with skin.        |
| Specific target organ toxicity - single exposure, (Category 1), | H370: Causes damage to organs.           |

## 2.2 Label elements

### Labelling according Regulation (EC) No 1272/2008

#### Pictogram

|                                |                                                                                                          |
|--------------------------------|----------------------------------------------------------------------------------------------------------|
| Signal Word                    | Danger                                                                                                   |
| Hazard Statements              |                                                                                                          |
| H225                           | Highly flammable liquid and vapor.                                                                       |
| H301 + H311 + H331             | Toxic if swallowed, in contact with skin or if inhaled.                                                  |
| H370                           | Causes damage to organs (Eyes, Central nervous system).                                                  |
| Precautionary Statements       |                                                                                                          |
| P210                           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.           |
| P233                           | Keep container tightly closed.                                                                           |
| P280                           | Wear protective gloves/ protective clothing/ eye protection/ face protection.                            |
| P301 + P310                    | IF SWALLOWED: Immediately call a POISON CENTER/ doctor.                                                  |
| P303 + P361 + P353             | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.             |
| P304 + P340 + P311             | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor. |
| Supplemental Hazard Statements | none                                                                                                     |

### Reduced Labeling (<= 125 ml)

#### Pictogram

|                                |                                                                                                          |
|--------------------------------|----------------------------------------------------------------------------------------------------------|
| Signal Word                    | Danger                                                                                                   |
| Hazard Statements              |                                                                                                          |
| H370                           | Causes damage to organs.                                                                                 |
| H301 + H311 + H331             | Toxic if swallowed, in contact with skin or if inhaled.                                                  |
| Precautionary Statements       |                                                                                                          |
| P301 + P310                    | IF SWALLOWED: Immediately call a POISON CENTER/ doctor.                                                  |
| P304 + P340 + P311             | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor. |
| Supplemental Hazard Statements | none                                                                                                     |

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Formula : CH<sub>4</sub>O  
Molecular weight : 32,04 g/mol  
CAS-No. : 67-56-1  
EC-No. : 200-659-6  
Index-No. : 603-001-00-X

| Component       |              | Classification                                                                                                                                                     | Concentration |
|-----------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Methanol</b> |              |                                                                                                                                                                    |               |
| CAS-No.         | 67-56-1      | Flam. Liq. 2; Acute Tox. 3;<br>STOT SE 1; H225, H301,<br>H331, H311, H370<br>Concentration limits:<br>>= 10 %: STOT SE 1,<br>H370; 3 - < 10 %: STOT<br>SE 2, H371; | <= 100 %      |
| EC-No.          | 200-659-6    |                                                                                                                                                                    |               |
| Index-No.       | 603-001-00-X |                                                                                                                                                                    |               |

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: fresh air. Make victim drink ethanol (e.g. 1 drinking glass of a 40% alcoholic beverage). Call a doctor immediately (mention methanol ingestion). Only in

exceptional cases, if no medical care is available within one hour, induce vomiting (only in fully conscious persons) and make victim drink ethanol again (approx. 0.3 ml of a 40% alcoholic beverage/kg body weight/hour).

#### **Notes to physician**

Dizziness Drowsiness metabolic acidosis Blurred vision Seizures. Coma Blindness death

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

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### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Water Foam Carbon dioxide (CO<sub>2</sub>) Dry powder

##### **Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

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

Carbon oxides

Combustible.

Pay attention to flashback.

Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire.

Forms explosive mixtures with air at ambient temperatures.

#### **5.3 Advice for firefighters**

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### **5.4 Further information**

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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### **SECTION 6: Accidental release measures**

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

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition.

Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

#### **6.2 Environmental precautions**

Do not let product enter drains. Risk of explosion.

#### **6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g.

Chemizorb®). Dispose of properly. Clean up affected area.

## 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

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

#### Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

Store at Room Temperature.

#### Storage class

Storage class (TRGS 510): 3: Flammable liquids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Ingredients with workplace control parameters

#### Derived No Effect Level (DNEL)

| Application Area | Routes of exposure | Health effect              | Value                 |
|------------------|--------------------|----------------------------|-----------------------|
| Workers          | Skin contact       | Long-term systemic effects | 40mg/kg BW/d          |
| Consumers        | Skin contact       | Long-term systemic effects | 8mg/kg BW/d           |
| Consumers        | Ingestion          | Long-term systemic effects | 8mg/kg BW/d           |
| Workers          | Skin contact       | Acute systemic effects     | 40mg/kg BW/d          |
| Consumers        | Skin contact       | Acute systemic effects     | 8mg/kg BW/d           |
| Consumers        | Ingestion          | Acute systemic effects     | 8mg/kg BW/d           |
| Workers          | Inhalation         | Acute systemic effects     | 260 mg/m <sup>3</sup> |
| Workers          | Inhalation         | Acute local effects        | 260 mg/m <sup>3</sup> |
| Workers          | Inhalation         | Long-term systemic effects | 260 mg/m <sup>3</sup> |

|           |            |                            |                       |
|-----------|------------|----------------------------|-----------------------|
| Workers   | Inhalation | Long-term local effects    | 260 mg/m <sup>3</sup> |
| Consumers | Inhalation | Acute systemic effects     | 50 mg/m <sup>3</sup>  |
| Consumers | Inhalation | Acute local effects        | 50 mg/m <sup>3</sup>  |
| Consumers | Inhalation | Long-term systemic effects | 50 mg/m <sup>3</sup>  |
| Consumers | Inhalation | Long-term local effects    | 50 mg/m <sup>3</sup>  |

#### **Predicted No Effect Concentration (PNEC)**

| Compartment                   | Value       |
|-------------------------------|-------------|
| Soil                          | 23,5 mg/kg  |
| Sea water                     | 15,4 mg/l   |
| Fresh water                   | 154 mg/l    |
| Fresh water sediment          | 570,4 mg/kg |
| Onsite sewage treatment plant | 100 mg/kg   |

## **8.2 Exposure controls**

### **Personal protective equipment**

#### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

#### **Skin protection**

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Full contact

Material: butyl-rubber

Minimum layer thickness: 0,7 mm

Break through time: 480 min

Material tested: Butoject® (KCL 898)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Splash contact

Material: Viton®

Minimum layer thickness: 0,7 mm

Break through time: 120 min

Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

#### **Body Protection**

Flame retardant antistatic protective clothing.

#### **Respiratory protection**

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type AX

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**Control of environmental exposure**

Do not let product enter drains. Risk of explosion.

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**SECTION 9: Physical and chemical properties**

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

|                                                 |                                                                                                                          |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| a) Physical state                               | liquid                                                                                                                   |
| b) Color                                        | colorless                                                                                                                |
| c) Odor                                         | characteristic                                                                                                           |
| d) Melting point/freezing point                 | Melting point: -97,8 °C - (ECHA)                                                                                         |
| e) Initial boiling point and boiling range      | 64,7 °C at 1.013 hPa - (ECHA)                                                                                            |
| f) Flammability (solid, gas)                    | No data available                                                                                                        |
| g) Upper/lower flammability or explosive limits | Upper explosion limit: 44 %(V)<br>Lower explosion limit: 5,5 %(V)                                                        |
| h) Flash point                                  | 9,7 °C - closed cup - Regulation (EC) No. 440/2008, Annex, A.9                                                           |
| i) Autoignition temperature                     | 455,0 °C<br>at 1.013 hPa - DIN 51794                                                                                     |
| j) Decomposition temperature                    | Distillable in an undecomposed state at normal pressure.                                                                 |
| k) pH                                           | No data available                                                                                                        |
| l) Viscosity                                    | Viscosity, kinematic: 0,54 - 0,59 mm <sup>2</sup> /s at 20 °C<br><br>Viscosity, dynamic: > 0,544 - < 0,59 mPa.s at 25 °C |
| m) Water solubility                             | 1.000 g/l at 20 °C - completely miscible                                                                                 |
| n) Partition coefficient: n-octanol/water       | log Pow: -0,77 at 25 °C - (HSDB), Bioaccumulation is not expected.                                                       |
| o) Vapor pressure                               | 169,27 hPa at 25 °C                                                                                                      |
| p) Density                                      | 0,79 g/cm <sup>3</sup> at 20 °C                                                                                          |
| Relative density                                | 0,79 - 0,8 at 20 °C                                                                                                      |
| q) Relative vapor density                       | 1,11                                                                                                                     |
| r) Particle characteristics                     | No data available                                                                                                        |

- s) Explosive properties No data available  
t) Oxidizing properties none

## 9.2 Other safety information

|                         |           |
|-------------------------|-----------|
| Minimum ignition energy | 0,14 mJ   |
| Conductivity            | < 1 µS/cm |
| Relative vapor density  | 1,11      |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Vapors may form explosive mixture with air.

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Risk of explosion with:

Oxidizing agents

perchloric acid

perchlorates

salts of oxyhalogenic acids

chromium(VI) oxide

halogen oxides

nitrogen oxides

nonmetallic oxides

chromosulfuric acid

chlorates

hydrides

zinc diethyl

halogens

powdered magnesium

hydrogen peroxide

Nitric acid

sulfuric acid

permanganic acid

sodium hypochlorite

Exothermic reaction with:

acid halides

Acid anhydrides

Reducing agents

acids

Bromine

Chlorine

Chloroform

magnesium

tetrachloromethane

Risk of ignition or formation of inflammable gases or vapours with:  
Fluorine  
Oxides of phosphorus  
Raney-nickel  
Generates dangerous gases or fumes in contact with:  
Alkaline earth metals  
Alkali metals

#### **10.4 Conditions to avoid**

Warming.

#### **10.5 Incompatible materials**

No data available

#### **10.6 Hazardous decomposition products**

In the event of fire: see section 5

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### **SECTION 11: Toxicological information**

#### **11.1 Information on toxicological effects**

##### **Acute toxicity**

Acute toxicity estimate Oral - 100,1 mg/kg

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Symptoms: Nausea, Vomiting

Acute toxicity estimate Inhalation - 4 h - 3,1 mg/l - vapor

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Symptoms: Irritation symptoms in the respiratory tract.

Acute toxicity estimate Dermal - 300,1 mg/kg

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

##### **Skin corrosion/irritation**

Skin - Rabbit

Result: No skin irritation

Remarks: (ECHA)

Remarks: Drying-out effect resulting in rough and chapped skin.

##### **Serious eye damage/eye irritation**

Eyes - Rabbit

Result: No eye irritation

Remarks: (ECHA)

##### **Respiratory or skin sensitization**

Sensitisation test: - Guinea pig

Result: negative

(OECD Test Guideline 406)

##### **Germ cell mutagenicity**

Based on available data the classification criteria are not met.

Test Type: Ames test

Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster lung cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Micronucleus test  
Species: Mouse  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

#### **Carcinogenicity**

Did not show carcinogenic effects in animal experiments.

#### **Reproductive toxicity**

Based on available data the classification criteria are not met.

#### **Specific target organ toxicity - single exposure**

Causes damage to organs. - Eyes, Central nervous system

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

#### **Specific target organ toxicity - repeated exposure**

No data available

#### **Aspiration hazard**

No data available

### **11.2 Additional Information**

#### **Endocrine disrupting properties**

##### **Product:**

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Acute effects: , Headache, Dizziness, Drowsiness, narcosis, Blindness, Impairment of vision, irritant effects, Nausea, Vomiting, agitation, spasms, inebriation, Coma  
Drying-out effect resulting in rough and chapped skin.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Systemic effects:

acidosis  
drop in blood pressure  
agitation, spasms  
inebriation

Dizziness  
Drowsiness  
Headache  
Impairment of vision  
Blindness  
narcosis  
Coma

Symptoms may be delayed.

Damage to:

Liver  
Kidney  
Cardiac  
Irreversible damage of the optical nerve.

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

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## SECTION 12: Ecological information

### 12.1 Toxicity

|                                                     |                                                                                                                                  |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | flow-through test LC50 - <i>Lepomis macrochirus</i> (Bluegill) - 15.400,0 mg/l - 96 h<br>(US-EPA)                                |
| Toxicity to daphnia and other aquatic invertebrates | semi-static test EC50 - <i>Daphnia magna</i> (Water flea) - 18.260 mg/l - 96 h<br>(OECD Test Guideline 202)                      |
| Toxicity to algae                                   | static test ErC50 - <i>Pseudokirchneriella subcapitata</i> (green algae) - ca. 22.000,0 mg/l - 96 h<br>(OECD Test Guideline 201) |
| Toxicity to bacteria                                | static test IC50 - activated sludge - > 1.000 mg/l - 3 h<br>(OECD Test Guideline 209)                                            |
| Toxicity to fish(Chronic toxicity)                  | NOEC - <i>Oryzias latipes</i> (Orange-red killifish) - 7.900 mg/l - 200 h<br>Remarks: (External MSDS)                            |

### 12.2 Persistence and degradability

|                                 |                                                                     |
|---------------------------------|---------------------------------------------------------------------|
| Biodegradability                | Result: 99 % - Readily biodegradable.<br>(OECD Test Guideline 301D) |
| Biochemical Oxygen Demand (BOD) | 600 - 1.120 mg/g<br>Remarks: (IUCLID)                               |
| Chemical Oxygen Demand (COD)    | 1.420 mg/g<br>Remarks: (IUCLID)                                     |

|                           |                                             |
|---------------------------|---------------------------------------------|
| Theoretical oxygen demand | 1.500 mg/g<br>Remarks: (Lit.)               |
| Ratio BOD/ThBOD           | 76 %<br>Remarks: Closed Bottle test(IUCLID) |

### 12.3 Bioaccumulative potential

Bioaccumulation      Cyprinus carpio (Carp) - 72 d  
at 20 °C - 5 mg/l(Methanol)

Bioconcentration factor (BCF): 1,0

## 12.4 Mobility in soil

Will not adsorb on soil.

## 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

**Product:**

|            |                                                                                                                                                                                                                                                               |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product:   |                                                                                                                                                                                                                                                               |
| Assessment | : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |

## 12.7 Other adverse effects

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| Additional ecological information | Avoid release to the environment. |
|-----------------------------------|-----------------------------------|

|                    |                                                                                                                                                           |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stability in water | at 19 °C83 - 91 % - 72 h<br>Remarks: Hydrolyzes on contact with water.Hydrolyzes readily.<br>- 2,2 yr<br>Remarks: reaction with hydroxyl radicals(IUCLID) |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

No data available

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID: 1230

IMDG: 1230

IATA: 1230

**14.2 UN proper shipping name**

ADR/RID: METHANOL  
IMDG: METHANOL  
IATA: Methanol

**14.3 Transport hazard class(es)**

ADR/RID: 3 (6.1)                      IMDG: 3 (6.1)                      IATA: 3 (6.1)

**14.4 Packaging group**

ADR/RID: II                              IMDG: II                              IATA: II

**14.5 Environmental hazards**

ADR/RID: no                              IMDG Marine pollutant: no                      IATA: no

**14.6 Special precautions for user**

Tunnel restriction code              : (D/E)  
Further information                  : No data available

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Authorisations and/or restrictions on use**

REACH - Restrictions on the manufacture,                      : Methanol  
placing on the market and use of certain  
dangerous substances, mixtures and articles  
(Annex XVII)

**National legislation**

Seveso III: Directive 2012/18/EU of the      H2      ACUTE TOXIC  
European Parliament and of the Council  
on the control of major-accident hazards  
involving dangerous substances.

P5c      FLAMMABLE LIQUIDS

22      Methanol

**Other regulations**

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has been carried out for this substance.

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**SECTION 16: Other information****Full text of H-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.           |

### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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CHEMIKART