

According to EU regulation 1907/2006 (REACH)

## Material Safety Data Sheet

SDS date: 03-10-2017

SDS version: 1.1

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

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#### 1.1. Product Identifier

**Trade Name:** Methane

CAS-no.: 74-82-8

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

Recommended uses: Methane gas

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

##### Company and address

Strandmøllen A/S  
Strandvejen 895  
DK-2930 Klampenborg  
Tlf.: +45 701 02 107  
[www.strandmollen.dk](http://www.strandmollen.dk)

##### Contact person and E-mail:

[kundeservice@strandmollen.dk](mailto:kundeservice@strandmollen.dk)

##### The Safety data sheet is completed and validated by:

mediator A/S, Centervej 2, DK-6000 Kolding. Consultant: HG

#### 1.4. Emergency telephone number

Use your national or local emergency number - See section 4 "First aid measures".

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

CLP (1272/2008): Flam. Gas 1;H220, Press. Gas (Compressed);H280.

See full text of H-phrases in section 16.

### 2.2. Label elements



#### Signal word:

Danger

Extremely flammable gas. (H220)

Contains gas under pressure; may explode if heated. (H280)

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

Leaking gas fire: Do not extinguish, unless leak can be stopped safely. (P377)

Eliminate all ignition sources if safe to do so. (P381)

Protect from sunlight. Store in a well-ventilated place. (P410+P403)

### 2.3. Other hazards

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#### Additional labelling:

-

#### Additional warnings:

-

## SECTION 3: Composition/information on ingredients

### 3.1./3.2. Substances/Mixtures

Substance	EU-Index no.	Cas / EINECS no.	CLP-classification	w/w%	Note
Methane	601-001-00-4	74-82-8/ 200-812-7	Flam. Gas 1;H220, Press. Gas;H280	100	-

See full text of H-phrases in section 16.

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## SECTION 4: First aid measures

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### 4.1. Description of first aid measures

Inhalation:	Seek fresh air. Keep victim under observation. Seek medical advice in case of discomfort.
Ingestion:	Not relevant as the product is a gas. Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.
Skin contact:	Not relevant as the product is a gas.
Eye contact:	Not relevant as the product is a gas.
Burns:	Flush with water until pain ceases. Remove clothing that is not stuck to the skin – seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.
Additional information:	When obtaining medical advice, show the safety data sheet or label.

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

Inhalation of gases may cause irritation to the upper airways. Risk of suffocation at high concentrations in tight spaces.

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

When obtaining medical advice, show the safety data sheet or label.

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## SECTION 5: Firefighting measures

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### 5.1. Extinguishing media

Extinguish with powder, foam or water mist.

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

Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Hazardous fumes are formed in fire conditions. Heating will cause a rise in pressure in packaging with a risk of bursting. Use water or water mist to cool non-ignited stock.

### 5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases – seek fresh air.

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## SECTION 6: Accidental release measures

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

Use personal protective equipment – see section 8. Use the product under well-ventilated conditions. Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment.

### 6.2. Environmental precautions

Not relevant as the product is a gas.

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

Not relevant as the product is a gas.

### 6.4. Reference to other sections

See above.

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**SECTION 7: Handling and storage**

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**7.1. Precautions for safe handling**

See section 8 for information about precautions for use and personal protective equipment. Smoking and naked flames prohibited. Work under effective process ventilation (e.g. local exhaust ventilation).

**7.2. Conditions for safe storage, including any incompatibilities**

Pressurized container: Do not expose to temperatures exceeding 50 °C. The flasks must be stored and utilized in an upright position and must be secured.

**7.3. Specific end use(s)**

See section 1.

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**SECTION 8: Exposure controls/personal protection**

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**8.1. Control parameters**

Occupational exposure limits: -

**DNEL and PNEC values:**

No data.

**8.2. Exposure controls**

There are no exposure scenarios for this product.

**Appropriate engineering controls:**

Wash hands before breaks, before using restroom facilities, and at the end of the work.

**Personal protective equipment:**

Breathing equipment:	In case of insufficient ventilation, wear respiratory protective equipment. Use air-supplying respiratory protective equipment
Hand protection:	Recommended: Leather gloves.
Eye protection:	Not required.
Body and skin protection:	Use safety shoes when handling flask and antistatic work clothes.

**Environmental exposure controls:**

Ensure compliance with local regulations for emissions.

## SECTION 9: Physical and chemical properties

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

Appearance:	Colourless gas
Odour:	-
Odour threshold:	-
pH:	-
Melting point/ Freezing Point (°C):	-
Initial boiling point and boiling range (°C):	-
Flash point (°C):	-
Evaporation rate:	-
Flammability (solid, gas)	-
Upper / lower flammability or explosion limits (vol-%):	-
Vapour pressure (mbar, 25 °C):	-
Vapour density (air=1)	-
Relative density:	-
Solubility(ies):	-
Partition coefficient: n-octanol/water:	-
Auto-ignition temperature (°C):	-
Decomposition temperature (°C):	-
Viscosity (mm <sup>2</sup> /sek):	-
Explosive properties:	-
Oxidising properties:	-

### 9.2. Other information

Molecular weight:	16 g/mol
Surface tension (mN/m, 25 °C):	-

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Non-reactive.

### 10.2. Chemical stability

Extremely flammable gas. The product is stable when used in accordance with the supplier's directions.

### 10.3. Possibility of hazardous reactions

Vapours may form explosive mixtures with air.

### 10.4. Conditions to avoid

Avoid heating and contact with ignition sources.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

No special precautions regarding contact with other materials at the recommended storage conditions.

According to EU regulation 1907/2006 (REACH)

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Substance	Route of exposure	Species	Test	Result
Methane	Inhalation	Mouse	LC50 / 2 h	1237 mg/L air

Symptoms:

**Inhalation:** In severe cases, the gas can replace the atmospheric air, so there can be a choking hazard.

Symptoms may include rapid pulse, deep breathing and slight dizziness and at higher concentrations loss of mobility and loss of consciousness. The exposed person may not notice suffocation.

**Skin contact:** Not relevant as the product is a gas.

**Eye contact:** Not relevant as the product is a gas.

**Ingestion:** During normal handling gases can not be consumed.

**Long term effects:**

None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Test duration	Species	Test	Result
Methane	96 h	Fish	LC50	24.11 - 147.54 mg/L
Methane	48 h	Dafnia	EC50	14.22 - 69.43 mg/L
Methane	96 h	Algea	EC50	7.71 - 19.37 mg/L

### 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Methan	Yes	Biodegradation test, predates, OECD test	100% after 385,5 h

### 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
Methan	No	1.09 - 2.8	-

### 12.4. Mobility in soil

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### 12.5. Results of PBT and vPvB assessment

The mixture does not meet the criteria for PBT or vPvB.

### 12.6. Other adverse effects

None.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

The product should be treated as dangerous waste.

**EWG Code**

16 05 04

Rented flasks should be disposed of via supplier.

According to EU regulation 1907/2006 (REACH)

#### Specific labelling

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#### Contaminated packaging:


Uncleansed packaging is to be disposed of via the local waste-removal scheme.

### SECTION 14: Transport information


This product is included in the regulation of dangerous goods.

#### 14.1 -14.4.

##### ADR

UN number.:	UN proper shipping name	Transport hazard class(es)	Packing group
1971	METHANE, COMPRESSED	2.1 	-

##### IMDG

UN-no.:	Proper shipping name	Transport hazard class(es)	Packing group
1971	METHANE, COMPRESSED	2.1 	-

#### 14.5. Environmental hazards

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#### 14.6. Special precautions for user

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#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

### SECTION 15: Regulatory information

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

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#### Restrictions for application:

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#### Demands for specific education:

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#### Additional labelling:

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#### 15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

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## SECTION 16: Other information

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### Other information:

#### Sources:

EC regulation 1907/2006 (REACH).

Directive 2000/532/EC.

EC Regulation 1272/2008 (CLP).

EH40/2005 WELs (United Kingdom (UK), 8/2007).

#### Full text of H-phrases as mentioned in section 2+3:

H220 - Extremely flammable gas.

H280 - Contains gas under pressure; may explode if heated.

#### Other

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#### Minor changes have been made in following sections:

1 – 16.

#### This material safety data sheet replaces version:

1.0 (17-11-2016)

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