

Material Safety Data Sheet

SDS date: 03-10-2017

SDS version: 1.1

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

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**Contact person and E-mail:**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".

According to EU regulation 1907/2006 (REACH)

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

-

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.

According to EU regulation 1907/2006 (REACH)

SECTION 4: First aid measures

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.

SECTION 5: Firefighting measures

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.

SECTION 6: Accidental release measures

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.

According to EU regulation 1907/2006 (REACH)

SECTION 7: Handling and storage

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.

SECTION 8: Exposure controls/personal protection

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.

According to EU regulation 1907/2006 (REACH)

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 ² /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

-

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.

EWC 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

-

14.6. Special precautions for user

-

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:

-

Demands for specific education:

-

Additional labelling:

-

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

According to EU regulation 1907/2006 (REACH)

SECTION 16: Other information

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)
