

Methane (refrigerated)

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: D-CH4-078B Issue date: 4/3/2020 Revision date: 9/11/2023 Supersedes version of: 1/5/2023 Version: 0.3

Danger



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

| 1.1. Product identifier | |
|---|--|
| Trade name : | Methane (refrigerated) |
| SDS no : | D-CH4-078B |
| Other means of identification | Methane (refrigerated) |
| | CAS-No. : 74-82-8 |
| | EC-No. : 200-812-7 |
| | EC Index-No. : 601-001-00-4 |
| | 01-2119474442-39 |
| | |
| Chemical formula : | CH4 |
| 1.2. Relevant identified uses of the substance or m | nixture and uses advised against |
| Relevant identified uses | Industrial use. Perform risk assessment prior to use. |
| | Test gas/Calibration gas. |
| | Chemical reaction / Synthesis. |
| | Laboratory use. |
| | Use as a fuel. |
| | Use for manufacture of electronic/photovoltaic components. |
| | Contact supplier for more information on uses. |
| Uses advised against | Consumer use. |
| eses advised against | Uses other than those listed above are not supported, contact your supplier for more |
| | information on other uses. |
| | |
| | Attention: These products must not be applied to humans or animals unless they are |
| | expressly designated as medical or medicinal gases!. |

1.3. Details of the supplier of the safety data sheet

Messer Industriegase GmbH Messer- Platz 1 D - 65812 Bad Soden am Taunus Germany T +49 (0) 6196 7760-200 - F +49 (0) 6196 7760-280 <u>SDB.de@messergroup.com</u> - <u>www.messer.de</u>

1.4. Emergency telephone number

Emergency telephone number

: Messer Produktionsgesellschaft mbH Salzgitter, +49 (0) 5341 21-9333, erreichbar Montags 0:00 bis Sonntags 24:00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

| Physical hazards | Flammable gases, Category 1A | H220 |
|------------------|---|------|
| | Gases under pressure : Refrigerated liquefied gas | H281 |



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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

| Hazard pictograms (CLP) | GHS02 GHS04 |
|--------------------------------|---|
| Signal word (CLP) : | Danger |
| o | H220 - Extremely flammable gas. |
| × , | H281 - Contains refrigerated gas; may cause cryogenic burns or injury. |
| Precautionary statements (CLP) | |
| - Prevention : | P282 - Wear cold insulating gloves and either face shield or eye protection. |
| | P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| - Response | P336+P315 - Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention. |
| | P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely. |
| | P381 - In case of leakage, eliminate all ignition sources. |
| - Storage : | P403 - Store in a well-ventilated place. |
| 2.3. Other hazards | |
| | Asphyxiant in high concentrations. |
| | These high concentrations are within the flammability range. |
| | The substance/mixture has no endocrine disrupting properties. |

SECTION 3: Composition/information on ingredients

3.1. Substances

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------------------|--|-----|--|
| Methane (refrigerated) | CAS-No.: 74-82-8 EC-No.: 200-812-7 EC Index-No.: 601-001-00-4 REACH registration No: 01-2119474442- 39 | 100 | Flam. Gas 1A, H220 Press. Gas (Ref. Liq.), H281 |

Contains no other components or impurities which will influence the classification of the product. Not applicable

3.2. Mixtures

SECTION 4: First aid measures

| - Inhalation | Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped. |
|----------------|--|
| | |
| - Skin contact | : In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance. |
| - Eye contact | : Immediately flush eyes thoroughly with water for at least 15 minutes. |
| - Ingestion | : Ingestion is not considered a potential route of exposure. |



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

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. See section 11.

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

None.

| SECTION 5: Firefighting measures | |
|--|--|
| 5.1. Extinguishing media | |
| - Suitable extinguishing media | Water spray or fog. Carbon dioxide. Dry powder. Shutting off the source of the gas is the preferred method of control. Be aware of the risk of formation of static electricity with the use of CO2 extinguishers. Do not use them in places where a flammable atmosphere may be present. |
| - Unsuitable extinguishing media | : Do not use water jet to extinguish. |
| 5.2. Special hazards arising from the substan | ce or mixture |
| Specific hazards | : Exposure to fire may cause containers to rupture/explode. |
| Hazardous combustion products | : Carbon monoxide. |
| 5.3. Advice for firefighters | |
| Specific methods | Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems. If possible, stop flow of product. Use water spray or fog to knock down fire fumes if possible. If leaking do not spray water onto container. Water surrounding area (from protected position) to contain fire. Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire. Move containers away from the fire area if this can be done without risk. |
| Special protective equipment for fire fighters | In confined space use self-contained breathing apparatus. Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters. Standard EN 469 - Protective clothing for firefighters. Standard EN 659 - Protective gloves for firefighters. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| For non-emergency personnel | : Act in accordance with local emergency plan. |
|-----------------------------|---|
| | Try to stop release. |
| | Evacuate area. |
| | Eliminate ignition sources. |
| | Ensure adequate air ventilation. |
| | Use protective clothing. |
| | Stay upwind. |
| | See section 8 of the SDS for more information on personal protective equipment. |



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| Reference number: D-CH4-078B | | |
|--|---|--|
| For emergency responders | Monitor concentration of released product. Consider the risk of potentially explosive atmospheres. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. See section 5.3 of the SDS for more information. | |
| 6.2. Environmental precautions | Try to stop release. | |
| | Liquid spillages can cause embrittlement of structural materials. | |
| 6.3. Methods and material for containmen | t and cleaning up | |
| | Ventilate area. | |
| 6.4. Reference to other sections | See also sections 8 and 13. | |
| SECTION 7: Handling and storage | e | |
| 7.1. Precautions for safe handling | | |
| Safe use of the product | Take precautionary measures against static discharge. Keep away from ignition sources (including static discharges). Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Purge air from system before introducing gas. Do not smoke while handling product. Avoid suck back of water, acid and alkalis. Only experienced and properly instructed persons should handle gases under pressure. Ensure the complete gas system was (or is regularily) checked for leaks before use. Assess the risk of potentially explosive atmospheres and the need for explosion-proof equipment. Consider the use of only non-sparking tools. The product must be handled in accordance with good industrial hygiene and safety procedures. Consider pressure relief device(s) in gas installations. Do not breathe gas. Avoid release of product into work area. Ensure equipment is adequately earthed | |
| Safe handling of the gas receptacle | Ensure equipment is adequately earthed. Refer to supplier's container handling instructions. Do not allow backfeed into the container. Protect containers from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. If user experiences any difficulty operating valve discontinue use and contact supplier. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Keep container valve outlets clean and free from contaminants particularly oil and water. | |

Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.

Close container valve after each use and when empty, even if still connected to equipment. Never attempt to transfer gases from one cylinder/container to another.

Never use direct flame or electrical heating devices to raise the pressure of a container. Do not remove or deface labels provided by the supplier for the identification of the content of the container.

Suck back of water into the container must be prevented.

Open valve slowly to avoid pressure shock.



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7.2. Conditions for safe storage, including any incompatibilities

Segregate from oxidant gases and other oxidants in store.

- All electrical equipment in the storage areas should be compatible with the risk of a potentially explosive atmosphere.
- Observe all regulations and local requirements regarding storage of containers.
- Containers should not be stored in conditions likely to encourage corrosion.
- Container valve guards or caps should be in place.

Containers should be stored in the vertical position and properly secured to prevent them from falling over.

Stored containers should be periodically checked for general condition and leakage. Keep container below 50°C in a well ventilated place.

Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection 8.1. Control parameters DNEL (Derived-No Effect Level) : None established. PNEC (Predicted No-Effect Concentration) : None established. 8.2. Exposure controls 8.2.1. Appropriate engineering controls Provide adequate general and local exhaust ventilation. Product to be handled in a closed system. Systems under pressure should be regularily checked for leakages. Ensure exposure is below occupational exposure limits (where available). Gas detectors should be used when flammable gases/vapours may be released. Consider the use of a work permit system e.g. for maintenance activities. 8.2.2. Individual protection measures, e.g. personal protective equipment A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered: PPE compliant to the recommended EN/ISO standards should be selected. · Eye/face protection : Wear goggles and a face shield when transfilling or breaking transfer connections. Standard EN 166 - Personal eye-protection - specifications. Skin protection - Hand protection : Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risks, performance level 1 or higher. Wear cold insulating gloves when transfilling or breaking transfer connections. Standard EN 511 - Cold insulating gloves. - Other : Consider the use of flame resistant anti-static safety clothing. Standard EN ISO 14116 - Limited flame spread materials. Standard EN 1149-5 - Protective clothing: Electrostatic properties. Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear. Respiratory protection Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres. Never use any kind of filtering respiratory protection equipment when working with this substance due to it having poor or no warning properties. Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.



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Thermal hazards

: None in addition to the above sections.

8.2.3. Environmental exposure controls

Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Appearance | |
|---|--|
| - Physical state at 20°C / 101.3kPa | : Gas. |
| - Colour | : Colourless liquid. |
| Odour | : Odourless. |
| Melting point / Freezing point | : -182 °C |
| Boiling point | : -161.5 °C |
| Flammability | : Extremely flammable gas. |
| Lower explosion limit | : 4.4 vol % |
| Upper explosion limit | : 17 vol % |
| Flash point | : Not applicable for gases and gas mixtures. |
| Auto-ignition temperature | : 595 °C |
| Decomposition temperature | : Not applicable. |
| рН | : Not applicable for gases and gas mixtures. |
| Viscosity, kinematic | : No reliable data available. |
| Water solubility [20°C] | : 26 mg/l |
| Partition coefficient n-octanol/water (Log Kow) | : 1.09 |
| Vapour pressure [20°C] | : Not applicable. |
| Vapour pressure [50°C] | : Not applicable. |
| Density and/or relative density | : Not applicable for gases and gas mixtures. |
| Relative vapour density (air=1) | : 0.6 |
| Particle characteristics | : Not applicable for gases and gas mixtures. |
| | Nanoforms are not relevant for gases and gas mixtures. |

9.2. Other information

| 9.2.1. Information with regard to physical hazard classes |
|---|
|---|

| Oxidising properties | : No oxidising properties. |
|-------------------------------------|----------------------------|
| Critical temperature [°C] | : -82 °C |
| 9.2.2. Other safety characteristics | |
| | |

SECTION 10: Stability and reactivity 10.1. Reactivity No reactivity hazard other than the effects described in sub-sections below. 10.2. Chemical stability Stable under normal conditions. 10.3. Possibility of hazardous reactions Can form explosive mixture with air. May react violently with oxidants. 10.4. Conditions to avoid Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid moisture in installation systems.



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10.5. Incompatible materials

Air, Oxidisers.

For additional information on compatibility refer to ISO 11114. Materials such as carbon steel, low alloy carbon steel and plastic become brittle at low temperatures and are subject to failure. Use appropriate materials compatible with the cryogenic conditions present in refrigerated liquefied gas systems.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

| : Toxicological effects not expected from this product if occupational exposure limit values are not exceeded. |
|--|
| : No known effects from this product. |
| : No known effects from this product. |
| : No known effects from this product. |
| : No known effects from this product. |
| : No known effects from this product. |
| : No known effects from this product. |
| : No known effects from this product. |
| : No known effects from this product. |
| : No known effects from this product. |
| : Not applicable for gases and gas mixtures. |
| |
| : The substance/mixture has no endocrine disrupting properties. |
| |

| SECTION 12: I | Ecological | information |
|---------------|------------|-------------|
|---------------|------------|-------------|

12.1. Toxicity

| Assessment EC50 48h - Daphnia magna [mg/l] EC50 72h - Algae [mg/l] LC50 96 h - Fish [mg/l] | Classification criteria are not met. 69.4 mg/l 19.4 mg/l 147.5 mg/l |
|---|---|
| 12.2. Persistence and degradability | |
| Assessment | : The substance is readily biodegradable. Unlikely to persist. |
| 12.3. Bioaccumulative potential | |
| No additional information available | |
| <u>12.4. Mobility in soil</u> | |
| Assessment | : Because of its high volatility, the product is unlikely to cause ground or water pollution. Partition into soil is unlikely. |
| 12.5. Results of PBT and vPvB assessment | |
| Assessment | : Not classified as PBT or vPvB. |
| 12.6. Endocrine disrupting properties | |
| Assessment | : The substance/mixture has no endocrine disrupting properties. |
| | |



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12.7. Other adverse effects

- Can cause frost damage to vegetation.
 No effect on the ozone layer.
- : 25
- : When discharged in large quantities may contribute to the greenhouse effect. Contains greenhouse gas(es).

SECTION 13: Disposal considerations

| 13.1. Waste treatment methods | |
|---|--|
| | Contact supplier if guidance is required. Do not discharge into areas where there is a risk of forming an explosive mixture with air. Waste gas should be flared through a suitable burner with flash back arrestor. |
| | Ensure that the emission levels from local regulations or operating permits are not exceeded. |
| | Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at http://www.eiga.eu for more guidance on suitable disposal methods. |
| | Do not discharge into any place where its accumulation could be dangerous. Return unused product in original container to supplier. |
| List of hazardous waste codes (from Commission : Decision 2000/532/EC as amended) | 16 05 04 *: Gases in pressure containers (including halons) containing hazardous substances. |
| 13.2. Additional information | |
| | External treatment and disposal of waste should comply with applicable local and/or |

national regulations.

SECTION 14: Transport information

14.1. UN number or ID number

| : Not applicable. | |
|--|--|
| | |
| | |
| : S-U | |
| : F-D | |
| : 2.1 | |
| | |
| carriage : Passage forbidden through tunnels of category D and E | |
| | D and E. Other |
| | |
| | |
| | |
| 2.1 : Flammable gases. | |
| | |
| | |
| : METHANE, REFRIGERATED LIQUID | |
| | |
| | |
| | |
| . 1012 | |
| N | |
| | : 1972 : METHANE, REFRIGERATED LIQUID : Methane, refrigerated liquid : METHANE, REFRIGERATED LIQUID : |



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| Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG) | : Not applicable. : Not applicable. |
|--|---|
| 14.5. Environmental hazards | |
| Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG) | : None. : None. : None. |
| 14.6. Special precautions for user | |
| Packing Instruction(s) Transport by road/rail (ADR/RID) | : P203. |
| Transport by air (ICAO-TI / IATA-DGR) Passenger and Cargo Aircraft | : Forbidden. |
| Cargo Aircraft only Transport by sea (IMDG) | : Forbidden. : P203. |
| Special transport precautions | Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure there is adequate ventilation. Ensure that containers are firmly secured. Ensure valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. |
| 14.7. Maritime transport in bulk according to | DIMO instruments |
| | Natanaliashla |

Not applicable.

SECTION 15: Regulatory information

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

EU-Regulations

| Restrictions on use Other information, restriction and prohibition regulations Seveso Directive : 2012/18/EU (Seveso III) | None. Not listed on the PIC list (Regulation EU 649/2012). Not listed on the POP list (Regulation EU 2019/1021). Listed. |
|--|--|
| National regulations | |
| Water hazard class (WGK) | : nwg - Non-hazardous to water. |
| Kenn-Nr. | : 1343 |



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| Regulatory reference | Ensure all national/local regulations are observed. Gesetz zum Schutz der arbeitenden Jugend (Jugendarbeitsschutzgesetz-JArbSchG) Betriebssicherheitsverordnung-BetrSichV TRBS 3145/TRGS 745 - Ortsbewegliche Druckgasbehälter – Füllen, Bereithalten, innerbetriebliche Beförderung, Entleeren TRGS 510 - Lagerung von Gefahrstoffen in ortsbeweglichen Behältern TRGS 407 - Tätigkeiten mit Gasen – Gefährdungsbeurteilung TRBS 2141 - Gefährdungen durch Dampf und Druck - Allgemeine Anforderungen. TRGS 725 - Gefährliche explosionsfähige Atmosphäre -Mess-, Steuer- und Regeleinrichtungen im Rahmen von Explosionsschutzmaßnahmen. Zwölfte Verordnung zur Durchführung des Bundes-Immissionsschutzgesetzes (12. BImSchV-Störfall-Verordnung). Vierte Verordnung zur Durchführung des Bundes-Immissionsschutzgesetzes (Verordnung über genehmigungsbedürftige Anlagen - 4. BImSchV) Anhang 2 Stoffliste zu Nr. 9.3 des Anhangs 1. Classification for storage according to TRGS 510: 2A Gase (ohne Aerosolpackungen und Feuerzeuge). TA Luft. |
|----------------------------------|--|
| 15.2. Chemical safety assessment | A CSA has been carried out. |
| | |

| SECTION 16: Other information | |
|-------------------------------|--|
| Indication of changes | : Revised safety data sheet in accordance with commission regulation (EU) No 2020/878. |

| U | |
|----------------------------|--|
| Abbreviations and acronyms | : ATE - Acute Toxicity Estimate. |
| | CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008. |
| | REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation |
| | (EC) No 1907/2006. |
| | EINECS - European Inventory of Existing Commercial Chemical Substances. |
| | CAS# - Chemical Abstract Service number. |
| | PPE - Personal Protection Equipment. |
| | LC50 - Lethal Concentration to 50 % of a test population. |
| | RMM - Risk Management Measures. |
| | PBT - Persistent, Bioaccumulative and Toxic. |
| | vPvB - Very Persistent and Very Bioaccumulative. |
| | STOT- SE : Specific Target Organ Toxicity - Single Exposure. |
| | CSA - Chemical Safety Assessment. |
| | EN - European Standard. |
| | UN - United Nations. |
| | ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| | IATA - International Air Transport Association. |
| | IMDG code - International Maritime Dangerous Goods. |
| | RID - Regulations concerning the International Carriage of Dangerous Goods by Rail. |
| | WGK - Water Hazard Class. |
| | STOT - RE : Specific Target Organ Toxicity - Repeated Exposure. |
| | UFI : Unique Formula Identifier. |
| Training advice | : Ensure operators understand the flammability hazard. |
| Further information | : Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP). |
| | Key literature references and sources of data are maintained in EIGA doc 169 : |
| | 'Classification and Labelling Guide', downloadable at http://www.Eiga.eu . |
| | |

| Full text of H- and EUH-statements | |
|------------------------------------|------------------------------|
| Flam. Gas 1A | Flammable gases, Category 1A |
| H220 | Extremely flammable gas. |



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| H281 | Contains refrigerated gas; may cause cryogenic burns or injury. |
|-------------------------|---|
| Press. Gas (Ref. Liq.) | Gases under pressure : Refrigerated liquefied gas |
| DISCLAIMER OF LIABILITY | Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted. |

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