

Methane; Compressed natural gas CNG

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Reference number: RS-CH4-078A Issue date: 04/04/2022 Revision date: 09/01/2024 Supersedes: 09/01/2023 Version: 1C

Danger



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

1.1. Product identifier

Trade name : Methane 3.5; Methane 5.5; Prirodni gas; Compressed natural gas CNG

 SDS no
 : RS-CH4-078A

 Other means of identification
 : Methane

 CAS no.
 : 74-82-8

 EC no.
 : 200-812-7

 Index no.
 : 601-001-00-4

 REACH no.
 : 01-2119474442-39

Chemical formula : CH₄

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

Relevant identified uses : Industrial and professional uses. Perform risk assessment prior to use.

Test gas / Calibration gas. Chemical reaction / Synthesis. Laboratory use.

Contact supplier for more information on uses. Use as a fuel. Use for manufacture of electronic/photovoltaic components.

Uses advised against : Consumer use.

Uses other than those listed above are not supported, contact your supplier for more

information on other uses.

1.3. Details of the supplier of the safety data sheet

Messer Tehnogas AD Beograd

Banjicki put, 62

RS-11090 Belgrade, Serbia

T +381 11 35 37 200 - F +381 11 35 37 291 postoffice@messer.rs - www.messer.rs

1.4. Emergency telephone number

Emergency telephone number : Poison Control Center, VMA

Crnotravska 17, Belgrade Serbia Tel.: +381(0) 11 360 8440 (24h)

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 : Compressed gas H280

2.2. Label elements

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

Hazard pictograms (CLP) :





GHS02 GHS04

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: Danger

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Signal word (CLP)

Hazard statements (CLP) : H220 - Extremely flammable gas.

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

Precautionary statements (CLP)

- Prevention : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smokina

- Response : 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.

Supplemental information : When discharged in large quantities may contribute to the greenhouse effect.

Contains greenhouse gases listed in Annex I of EU 2024/573.

2.3. Other hazards

Asphyxiant in high concentrations.

These high concentrations are within the flammability range.

Not classified as PBT or vPvB.

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] ATE, EUH-statements, M-Factors
Methane	CAS no.: 74-82-8 EC no.: 200-812-7 Index no.: 601-001-00-4 REACH no.: 01-2119474442-39	≤ 100	Flam. Gas 1A, H220 Press. Gas (Comp.), H280

Contains no other components or impurities which will influence the classification of the product.

3.2. Mixtures Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep

victim warm and rested. Maintain an open airway. Call a doctor. Perform cardiopulmonary

resuscitation if breathing stopped.

- Skin contact : Carefully remove contaminated clothing. In case of frostbite spray with water for at least 15

minutes. Do not use hot water! Apply a sterile dressing. Obtain medical assistance.

- Eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove any contact

lenses. Obtain medical assistance.

- Ingestion : Ingestion is not considered a potential route of exposure.

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

Take first aid measures. Loosen tight clothing, such as a collar, tie or belt. Place the unconscious person in a lateral position. Seek medical attention.

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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 substance 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.

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.

Stay upwind.

See section 8 of the SDS for more information on personal protective equipment.

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

See section 5.3 of the SDS for more information.

6.2. Environmental precautions

Try to stop release.

6.3. Methods and material for containment and cleaning up

Ventilate area.

6.4. Reference to other sections

See also sections 8 and 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe handling of the gas receptacle

Safe use of the product

Assess the risk of potentially explosive atmospheres and the need for explosion-proof equipment. Ensure equipment is adequately earthed. Keep away from ignition sources (including static discharges). Consider the use of only non-sparking tools. Take precautionary measures against static discharge. Purge air from system before introducing

The product must be handled in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke while working with the product. Wash hands after use. Only experienced and properly instructed persons should handle gases under pressure. Wear personal protective equipment (See section 8). Consider pressure relief device(s) in gas installations. Ensure the complete gas system was(or is regularily) checked for leaks before use. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Avoid suck back of water, acid and alkalis.

Do not breathe gas.

Avoid release of product into work area.

Refer to supplier's container handling instructions.

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 the protection cap is too tight, remove it with adjustable wrench. Never insert sharp objects into the cavities of the cap, this can lead to damage to the valve and leakage.

Open valve slowly to avoid pressure shock. 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 allow backfeed into the container. Suck back of water into the container must be prevented.

Do not remove or deface labels provided by the supplier for the identification of the content of the container.

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.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL (Occupational Exposure Limits) : None available.

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.

: Wear safety glasses with side shields.

Standard EN 166 - Personal eye-protection - specifications.

· Skin protection

· Eye/face protection

- Hand protection : Wear working gloves when handling gas containers.

Standard EN 388 - Protective gloves against mechanical risks, performance level 1 or higher. Recommended types include wrist gloves from leather or synthetic material with

equivalent performance, fabric gloves, fabric gloves with leather palms. Wear cold insulating gloves when transfilling or breaking transfer connections.

Standard EN 511 - Cold insulating gloves, performance level 1 or higher. Recommended types include insulated gauntlets or gloves specifically selected to prevent liquid penetration and ingress of cryogenic liquids and to provide mechanical resistance.

- 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.

Consult respiratory device supplier's product information for the selection of the appropriate

device

• 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.

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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. Odour Odourless. Melting point / Freezing point : -182.5 °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.

рΗ : 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)

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

Explosion limits : Not known.

Oxidising properties : No oxidising properties.

Tci : 8.7 % Critical temperature [°C] : -82 °C

9.2.2. Other safety characteristics

Molar mass : 16 g/mol Other data : None.

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. (See Section 7.)

10.5. Incompatible materials

Air. Oxidisers.

For additional information on compatibility refer to ISO 11114.

10.6. Hazardous decomposition products

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

be produced.

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SECTION 11: Toxicological information

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

Acute toxicity : Toxicological effects not expected from this product if occupational exposure limit values are

not exceeded.

Skin corrosion/irritation No known effects from this product. Serious eye damage/irritation : No known effects from this product. Respiratory or skin sensitisation : No known effects from this product. Germ cell mutagenicity : No known effects from this product. Carcinogenicity : No known effects from this product. Toxic for reproduction: Fertility : No known effects from this product. Toxic for reproduction: unborn child : No known effects from this product. STOT-single exposure : No known effects from this product.

 STOT-single exposure
 : No known effects from this product.

 STOT-repeated exposure
 : No known effects from this product.

Aspiration hazard : Not applicable for gases and gas mixtures.

11.2. Information on other hazards

Other information : The substance / mixture has no endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Assessment : Classification criteria are not met.

 EC50 48h - Daphnia magna [mg/l]
 : 69.4 mg/l

 EC50 72h - Algae [mg/l]
 : 19.4 mg/l

 LC50 96 h - Fish [mg/l]
 : 147.5 mg/l

12.2. Persistence and degradability

Assessment : The substance is readily biodegradable. Unlikely to persist.

12.3. Bioaccumulative potential

Assessment : Not expected to bioaccumulate due to the low log K_{ow} (log K_{ow} < 4).

See Section 9.

12.4. Mobility in soil

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.

12.7. Other adverse effects

Other adverse effects : No known effects from this product. Effect on the ozone layer : No effect on the ozone layer.

Global warming potential [CO₂=1] : 27,9

Effect on global warming : When discharged in large quantities may contribute to the greenhouse effect.

Contains greenhouse gases listed in Annex I of EU 2024/573.

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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.30/21 "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

16 05 04 *: Gases in pressure containers (including halons) containing hazardous substances.

Decision 2000/532/EC as amended)

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

In accordance with ADR / RID / IMDG / IATA / ADN

UN-No. : 1971

14.2. UN proper shipping name

Transport by road/rail/inland waterways

(ADR/RID/ADN)

Transport by air (ICAO-TI / IATA-DGR) : Methane, compressed : METHANE, COMPRESSED Transport by sea (IMDG)

14.3. Transport hazard class(es)

Labelling

2.1: Flammable gases.

: METHANE, COMPRESSED

Transport by road/rail/inland waterways (ADR/RID/ADN)

Class : 2 Classification code 1F Hazard identification number

Tunnel Restriction B/D - Tank carriage: Passage forbidden through tunnels of category B, C, D and E. Other

carriage: Passage forbidden through tunnels of category D and E

Transport by air (ICAO-TI / IATA-DGR)

Class / Div. (Sub. risk(s)) : 2.1

Transport by sea (IMDG)

Class / Div. (Sub. risk(s)) : 2.1 Emergency Schedule (EmS) - Fire : F-D Emergency Schedule (EmS) - Spillage : S-U

14.4. Packing group

Transport by road/rail/inland waterways : Not applicable.

(ADR/RID/ADN)

Transport by air (ICAO-TI / IATA-DGR) : Not applicable. Transport by sea (IMDG) : Not applicable.

14.5. Environmental hazards

Transport by road/rail/inland waterways None

(ADR/RID/ADN)

Transport by air (ICAO-TI / IATA-DGR) None. Transport by sea (IMDG) : None.

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14.6. Special precautions for user

Packing Instruction(s)

Transport by road/rail/inland waterways : P200.

(ADR/RID/ADN)

Transport by air (ICAO-TI / IATA-DGR)

Passenger and Cargo Aircraft : Forbidden.
Cargo Aircraft only : 200.
Transport by sea (IMDG) : P200.

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.
- Ensure valve protection device (where provided) is correctly fitted.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

RS Regulations

Pravilnik o ograničenjima i zabranama proizvodnje, stavljanja u promet i korišćenja hemikalija ("SI. glasnik RS",

br. 105/2013, 52/2017, 21/2019 i 29/2024)

Pravilnik o izvozu i uvozu određenih opasnih hemikalija

("SI. glasnik RS" br. 93/23)

Pravilnik o Listi opasnih materija i njihovim količinama i kriterijumima za određivanje vrste dokumenta koje izrađuje operater seveso postrojenja, odnosno kompleksa ("SI. glasnik RS", br. 41/2010, 51/2015 i 50/2018)

None.

: None.

: Listed.

EU Regulations

Restrictions on use : None.

Other information, restriction and prohibition

regulations

Not listed on the PIC list (Regulation EU 649/2012). Not listed on the POP list (Regulation EU 2019/1021).

Seveso Directive: 2012/18/EU (Seveso III) : Listed.

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. In Section 2, the Safety Data Sheet is supplemented with information about label elements and other hazards.

In Section 4, the Safety Data Sheet is supplemented with information first aid measures. In Section 8, the Safety Data Sheet is supplemented with information about exposure control and personal protection.

In Section 9, the Safety Data Sheet is supplemented with information about physical and chemical properties.

In Section 12, the Safety Data Sheet is supplemented with information about other adverse effects.

In Section 13, the Safety Data Sheet is supplemented with information about waste treatment methods.

In Section 15, the Safety Data Sheet is supplemented with regulatory information.

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Abbreviations and acronyms

: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE - Acute Toxicity Estimate

CAS - Chemical Abstract Service number

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CSA - Chemical Safety Assessment DNEL - Derived No Effect Levels

EINECS - European Inventory of Existing Commercial Chemical Substances

EC- European Community number

EIGA - European Industrial Gases Association

EN - European Standard

IATA - International Air Transport Association ICAO - International Civil Aviation Organization IMDG code - International Maritime Dangerous Goods

IMO - International Maritime Organization

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose 50%

LEL - Lower Explosive Limit

OEL - Occupational exposure limits

PBT - Persistent, Bioaccumulative and Toxic

PNEC - Predicted No Effect Concentration

PPE - Personal Protection Equipment

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

RMM - Risk Management Measures

STOT - RE - Specific Target Organ Toxicity - Repeated Exposure STOT- SE - Specific Target Organ Toxicity - Single Exposure

STEL - Short Term Exposure Limit TWA –8-hour total weight average UEL - Upper explosive limit UFI - Unique Formula Identifier

UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

WGK - Water Hazard Class : Receptacle under pressure.

Ensure operators understand the flammability hazard.

: 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.	
H280	Contains gas under pressure; may explode if heated.	
Press. Gas (Comp.)	Gases under pressure : Compressed gas	

DISCLAIMER OF LIABILITY

Training advice

Further information

: 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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