according to Regulation (EC) No. 1907/2006

Methane

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

1.1 Product identifier

Trade name : Methane

REACH Registration Number : 01-2119474442-39-0000, 01-2119474442-39-0004

Substance name : Methane

EC-No. : 200-812-7

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

Use of the : Manufacture, Fuel use - Industrial

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Manufacturer : Borealis AB

S-444 86 Stenungsund, Sweden Telephone: +46 303 86000

Borealis Polymers Oy FI-06101 Porvoo, Finland Telephone: +358 9 394900

Supplier : Borealis AG

Trabrennstrasse 6-8, 1020 Vienna, Austria

Telephone: +43 1 22400 0

E-mail address : sds@borealisgroup.com

1.4 Emergency telephone number

+46 303 87280 / +46 303 771643 Production leader, Cracker (24h)

112 Poison Information Centre, Sweden (24h)

+44 (0) 1235 239 670 (NCEC Carechem 24)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)



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Flammable gases, Category 1A H220: Extremely flammable gas.

Gases under pressure, Refrigerated

liquefied gas

H281: Contains refrigerated gas; may cause

cryogenic burns or injury.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word : Danger

Hazard statements : H220 Extremely flammable gas.

H281 Contains refrigerated gas; may cause cryogenic burns

or injury.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P282 Wear cold insulating gloves and either face shield or

eye protection.

Response:

P336 + P315 Thaw frosted parts with lukewarm water. Do

not rub affected area. Get immediate medical advice.

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

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.



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SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : Methane

EC-No. : 200-812-7

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
methane	74-82-8	>= 80 - <= 100	
	200-812-7		
hydrogen	1333-74-0	>= 1 - < 10	
	215-605-7		
ethane	74-84-0	>= 0 - < 1	
	200-814-8		
ethylene	74-85-1	>= 0 - < 1	
	200-815-3		
carbon monoxide	630-08-0	>= 0 - < 0,3	
	211-128-3		

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

In case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

If inhaled : Move to fresh air.

Do not leave the victim unattended.

Keep patient warm and at rest.

If unconscious, place in recovery position and seek medical

advice.

Oxygen or artificial respiration if needed.

Seek medical advice.

In case of skin contact : Remove/ Take off immediately all contaminated clothing.

If clothing already frozen and stuck to the skin:

Do not remove contaminated clothing.

Wash frost-bitten areas with plenty of lukewarm water.

Do not rub affected area. Seek medical advice.



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In case of eye contact : Remove contact lenses.

Rinse thoroughly with plenty of water, also under the eyelids.

Keep eye wide open while rinsing.

Seek medical advice.

If swallowed : Not probable:

The product evaporates readily.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Inhalation may provoke the following symptoms:

> Drowsiness Suffocation

Skin contact may provoke the following symptoms:

Frostbite

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat frost-bitten areas as needed.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry powder

Carbon dioxide (CO2)

Foam Water mist

Unsuitable extinguishing

media

: Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Incomplete combustion may produce:

Carbon monoxide

Vapours may form explosive mixtures with air.

5.3 Advice for firefighters

for firefighters

Special protective equipment : Wear self-contained breathing apparatus and protective suit.

Further information : Attempt to stop leakage without personal risk.

> If conditions permit, let fire burn itself out. Cool containers/tanks with water spray.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep people away from and upwind of spill/leak.

Vapours can cause suffocation by reducing oxygen available for breathing.

Use personal protective equipment.

Eliminate all ignition sources if safe to do so.

Attempt to stop leakage without personal risk.

See chapter 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

Prevent product from entering environment and drains.

Observe the risk of explosion.

If major spillage occurs, contact the proper local authorities.

6.3 Methods and material for containment and cleaning up

Allow to evaporate.

Ensure adequate ventilation, especially in confined areas.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Refill and handle product only in closed system.

Prevent leaks by checking valves, pipelines and joints

regularly.

Advice on protection against

fire and explosion

: Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. To avoid

ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Ensure adequate ventilation. Risk of explosion if heated under confinement. Vapours may form explosive mixtures with air. High risk of fire in case of leakage. Do not pressurise, cut, weld, braze, solder,

drill, or grind on containers.

Hygiene measures : Avoid and prevent all spillage, contact and exposure. Ensure

adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep containers tightly closed in a cool, well-ventilated place.



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areas and containers Keep product and empty container away from heat and

sources of ignition. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Advice on common storage : Keep away from incompatible materials.

See chapter 10.

7.3 Specific end use(s)

Specific use(s) : For industrial use only.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
ethylene	74-85-1	NGV	250 ppm 330 mg/m3	SE AFS
Further information	Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded			
		KGV	1.000 ppm 1.200 mg/m3	SE AFS
Further information	Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded			
carbon monoxide	630-08-0	NGV	20 ppm 23 mg/m3	SE AFS
Further information	Exposure to certain chemical substances close to the existing occupational exposure limit and simultaneous exposure to noise close to the input value of 80 dB can cause hearing damage., Substance is reprotoxic.			
		KGV	100 ppm 117 mg/m3	SE AFS
Further information	Exposure to certain chemical substances close to the existing occupational exposure limit and simultaneous exposure to noise close to the input value of 80 dB can cause hearing damage., Substance is reprotoxic.			
		TWA	20 ppm 23 mg/m3	2017/164/EU
Further information	Indicative			
		STEL	100 ppm 117 mg/m3	2017/164/EU
Further information	Indicative			
		NGV	20 ppm 25 mg/m3	SE AFS
Further information	Exposure to certain chemical substances close to the existing occupational exposure limit and simultaneous exposure to noise close to the input value of 80 dB can cause hearing damage., Limit values for underground or tunnel			



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	work until 21 August 2023., Substance is reprotoxic.			
		KGV	100 ppm	SE AFS
			117 mg/m3	
Further information	Exposure to certain chemical substances close to the existing occupational exposure limit and simultaneous exposure to noise close to the input value of 80 dB can cause hearing damage., Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded, Limit values for underground or tunnel work until 21 August 2023., Substance is reprotoxic.			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Methane				
Remarks:	Not applicable, No adverse effects			

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name		Environmental Compartment	Value
Methane			
Remarks:	Not applic	able, (gaseous)	

8.2 Exposure controls

Engineering measures

Application in a closed system Provide adequate ventilation.
Use personal protective equipment.

Personal protective equipment

Eye protection : Safety goggles or face-shield.

Equipment should conform to EN 166

Hand protection

Remarks : Cold-insulating gloves (e.g. nitrile rubber).

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard

EN 374 derived from it.

Skin and body protection : Wear suitable protective clothing.

Leather boots Safety shoes

Respiratory protection : In case of insufficient ventilation: Self-contained breathing

apparatus.

Vapours can cause suffocation by reducing oxygen available

for breathing.



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Environmental exposure controls

General advice : Prevent further leakage or spillage if safe to do so. Prevent

product from entering environment and drains. Observe the risk of explosion. If major spillage occurs, contact the proper

local authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : Refrigerated liquefied gas

Colour : clear

Odour : odourless

Odour Threshold : No data available

Melting point : -183 °C

Boiling point : -161 °C

Upper explosion limit / Upper

flammability limit

Upper flammability limit

15 %(V)

methane

Upper flammability limit

76 %(V) hydrogen

Lower explosion limit / Lower

flammability limit

Lower flammability limit

5 %(V) methane

Lower flammability limit

4 %(V) hydrogen

Flash point : Not applicable, (gaseous)

Decomposition temperature : Heating or fire can release toxic and irritating gases.

pH : No data available

Viscosity

Viscosity, dynamic : 0,112 mPa.s (27 °C)

Viscosity, kinematic : No data available



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Solubility(ies)

Water solubility : 24,4 mg/l (25 °C)

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: log Pow: 1,09 (20 °C)

Vapour pressure : 4.520 kPa (-83 °C)

Relative density : 0,4228 (-83 °C)

Density : 0,423 g/cm³ (-83 °C)

Relative vapour density : 0,6

Particle size : Not applicable

Particle characteristics

Particle Size Distribution : Not applicable

9.2 Other information

Explosives : Not applicable

The substance contains no chemical groups with those

properties.

Oxidizing properties : Not applicable The substance contains no chemical groups

with those properties.

Self-ignition : 537 °C

Evaporation rate : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.



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10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.

Observe the risk of explosion.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

Halogenated compounds

10.6 Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

Components:

methane:

Acute oral toxicity : Remarks: Not applicable

(gaseous)

study technically not feasible

Acute inhalation toxicity : LC50: > 20 mg/l

Remarks: Acute toxicity:

low.

Acute dermal toxicity : Remarks: Not applicable

(gaseous)

study technically not feasible

ethylene:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : LC50 (Rat): > 65,4 mg/l, > 57000 ppm

Test atmosphere: gas

Acute dermal toxicity : Remarks: No data available

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Components:

methane:



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Result : No skin irritation

Remarks : Contact with liquid or refrigerated gas can cause cold burns

and frostbite.

ethylene:

Remarks : study technically not feasible

(gaseous)

Contact with liquid or refrigerated gas can cause cold burns

and frostbite.

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Components:

methane:

Result : No eye irritation

Remarks : Contact with liquid or refrigerated gas can cause cold burns

and frostbite.

ethylene:

Remarks : study technically not feasible

(gaseous)

Contact with liquid or refrigerated gas can cause cold burns

and frostbite.

Respiratory or skin sensitisation

Skin sensitisation

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Components:

methane:

Remarks : study technically not feasible

(gaseous)

ethylene:

Remarks : study technically not feasible

(gaseous)

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Components:

methane:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)

Method: OECD Test Guideline 471



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Result: negative

Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Remarks: No data available

ethylene:

Genotoxicity in vitro : Test Type: Ames test

Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reverse

mutation assay) Result: negative

Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Rat Result: negative

Carcinogenicity

Based on available data, the classification criteria are not met.

Components:

methane:

Remarks : This information is not available.

ethylene:

Species : Rat
Application Route : Inhalation
Exposure time : 106 weeks

Activity duration : 6 h

Frequency of Treatment : 5 days/week NOAEL : 3.000 ppm

Method : OECD Test Guideline 453

Result : negative

Remarks : IARC evaluation:

Group 3: Not classifiable as to its carcinogenicity to humans

Reproductive toxicity

Based on available data, the classification criteria are not met.

Components:

methane:

Effects on fertility

Remarks: This information is not available.

ethylene:

Effects on fertility : Species: Rat

Application Route: inhalation (gas)

General Toxicity - Parent: No observed adverse effect level:

5.737 mg/m³



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General Toxicity F1: No observed adverse effect level: 5.737

mg/m³

Method: OECD Test Guideline 421

Effects on foetal : Species: Rat

development General Toxicity Maternal: NOAEC: 5.737 mg/m³

Developmental Toxicity: NOAEC: 5.737 mg/m³

Method: OECD Test Guideline 421

STOT - single exposure

Based on available data, the classification criteria are not met.

Components:

methane:

Remarks : study scientifically unjustified

(gaseous)

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Components:

methane:

Exposure routes : Inhalation

Remarks : study scientifically unjustified

(gaseous)

Exposure routes : Ingestion

Remarks : study scientifically unjustified

(gaseous)

Exposure routes : Skin contact

Remarks : study scientifically unjustified

(gaseous)

Repeated dose toxicity

Components:

ethylene:

NOAEC : 10000 ppm Application Route : Inhalation

Method : OECD Test Guideline 413

Application Route : Dermal

Remarks : study technically not feasible

(gaseous)

Application Route : Oral

Remarks : study technically not feasible



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(gaseous)

Aspiration toxicity

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

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.

Further information

Product:

Remarks : Components of the product may be absorbed into the body by

inhalation.

SECTION 12: Ecological information

12.1 Toxicity

Components:

methane:

Toxicity to fish : 147,54 mg/l

Exposure time: 96 h Test Type: Short term Method: QSAR

Toxicity to daphnia and other

aquatic invertebrates

: LC50 (Daphnia (water flea)): 69,43 mg/l

Exposure time: 48 h Test Type: Short term

Method: QSAR

Toxicity to algae/aquatic

plants

: 12,32 mg/l

Exposure time: 96 h Method: QSAR

Toxicity to microorganisms

Remarks: No data available

Toxicity to fish (Chronic : 7,66 mg/l



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Exposure time: 30 d toxicity)

Method: QSAR

Remarks: No data available

Toxicity to daphnia and other : 3,886 mg/l

aquatic invertebrates (Chronic toxicity)

Exposure time: 30 d Method: QSAR

Remarks: No data available

ethylene:

Toxicity to fish : LC50: 126 mg/l

Exposure time: 96 h Method: QSAR

Remarks: Aquatic toxicity is unlikely.

(gaseous)

Toxicity to daphnia and other

aquatic invertebrates

: LC50 (Daphnia (water flea)): 62 mg/l

Exposure time: 48 h Method: QSAR

Remarks: Aquatic toxicity is unlikely.

(gaseous)

Toxicity to algae/aquatic

plants

: EbC50 (Scenedesmus capricornutum (fresh water algae)):

30,3 mg/l

Exposure time: 96 h

Test Type: Growth inhibition

Method: QSAR

Toxicity to microorganisms

Remarks: No data available

Toxicity to fish (Chronic

toxicity)

: NOELR: 22,083 mg/l Exposure time: 32 d

Species: Oncorhynchus mykiss (rainbow trout)

Method: QSAR

Chronic Toxicity Value: 12,385 mg/l

Exposure time: 30 d Method: QSAR

Toxicity to daphnia and other : NOELR: 41,311 mg/l

aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Method: QSAR

Chronic Toxicity Value: 6,311 mg/l Species: Daphnia sp. (water flea)

Method: QSAR



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12.2 Persistence and degradability

Components:

methane:

Biodegradability : Water

Method: QSAR

Remarks: Readily biodegradable.

ethylene:

Biodegradability : Method: QSAR

Remarks: Readily biodegradable.

12.3 Bioaccumulative potential

Components:

methane:

Bioaccumulation : Bioconcentration factor (BCF): 1,38

Remarks: Bioaccumulation not expected: Partition coefficient

(n-octanol/water) log Kow < 3.

Partition coefficient: n-

octanol/water

: log Pow: 1,09 (20 °C)

ethylene:

Bioaccumulation : Bioconcentration factor (BCF): 2,59

Remarks: Bioaccumulation not expected: Partition coefficient

(n-octanol/water) log Pow < 3.

Partition coefficient: n-

octanol/water

: log Pow: 1,13 (20 °C)

12.4 Mobility in soil

Components:

methane:

Mobility : Medium: Soil

Remarks: Not expected to adsorb on soil., Partition coefficient

(n-octanol/water) log Kow < 3., The product evaporates

readily.

ethylene:

Mobility : Remarks: Soil, Not expected to adsorb on soil., The product

evaporates readily to air.

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered



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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:

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

Product:

Additional ecological

information

: This product has no known ecotoxicological effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Where possible recycling is preferred to disposal or

incineration.

SECTION 14: Transport information

14.1 UN number or ID number

IMDG : UN 1972

14.2 UN proper shipping name

IMDG : METHANE, REFRIGERATED LIQUID

14.3 Transport hazard class(es)

IMDG : 2.1

14.4 Packing group

IMDG

Packing group : Not assigned by regulation

EmS Code : F-D, S-U



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14.5 Environmental hazards

IMDG

Marine pollutant : no

14.6 Special precautions for user

Remarks : Other UN-Number: 1971 (METHANE, COMPRESSED)

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

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

Category Quantity 1 Quantity 2
P2 FLAMMABLE GASES 10 t 50 t

Other regulations:

No data available

15.2 Chemical safety assessment

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

SECTION 16: Other information

Full text of other abbreviations

2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a

fourth list of indicative occupational exposure limit values

SE AFS : Sweden. Occupational Exposure Limit Values

2017/164/EU / STEL : Short term exposure limit 2017/164/EU / TWA : Limit Value - eight hours SE AFS / NGV : Time Weighted Average SE AFS / KGV : Short Term Exposure Limit



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Further information

Other information : Changes since the last version are highlighted in the margin.

This version replaces all previous versions.

Issuer : Borealis, Group Product Stewardship / Mikaela Eriksson.

Sources of key data used to compile the Safety Data

Sheet

International Chemical Safety Card, Methane, February 2000 (http://www.inchem.org/documents/icsc/icsc/eics0291.htm) International Chemical Safety Card, Hydrogen, April 2014 (http://www.inchem.org/documents/icsc/icsc/eics0001.htm)

Chemical Safety Report, Methane, 2019

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