

 Issue Date:
 16.01.2013

 Last revised date:
 21.01.2020

Version: 1.0

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

1.1 Product identifier	
Product name:	Methane, refrigerated, liquid
Trade name:	Biogas, liquefied (LBG)
Additional identification Chemical name:	Methane
Chemical formula: INDEX No. CAS-No. EC No. REACH Registration No.	CH4 601-001-00-4 74-82-8 200-812-7 01-2119474442-39
1.2 Relevant identified uses of the subs	tance or mixture and uses advised against
Identified uses:	Industrial and professional. Perform risk assessment prior to use. Transfilling gas or liquid, Use as a fuel Use as an Intermediate (transported, on-site isolated). Use for electronic component manufacture. Using gas alone or in mixtures for the calibration of analysis equipment. Using gas as feedstock in chemical processes.
Uses advised against	Consumer use.
1.3 Details of the supplier of the safety Supplier	data sheet
Linde Gas AS Postboks 13 Nydalen N-0409 Oslo Norway	Telephone: +4723177200
E-mail: sds.ren@linde.com	
1.4 Emergency telephone number: +47	22 59 13 00 (24h - Giftinformasjonssentralen)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended.

Physical Hazards

, Flammable gas	Category 1	H220: Extremely flammable gas.
Gases under pressure	Refrigerated liquefied gas	H281: Contains refrigerated gas; may cause cryogenic burns or injury.



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2.2 Label Elements			2/14
Signal Words:	I	Danger	
Hazard Statem		H220: Extremely flammable gas. H281: Contains refrigerated gas; may cause cryog	enic burns or injury.
Precautionary	Statements		
Prevention:	i	P210: Keep away from heat, hot surfaces, sparks, gnition sources. No smoking. P282: Wear cold insulating gloves and either face	
Response:	i	P336+P315: Thaw frosted parts with lukewarm wa area. Get immediate medical advice/attention. P377: Leaking gas fire: Do not extinguish, unless P381: In case of leakage, eliminate all ignition sou	leak can be stopped safely.
Storage:	l	2403: Store in a well-ventilated place.	
Disposal:	I	None.	
2.3 Other hazards:		None.	

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Methane
INDEX No.:	601-001-00-4
CAS-No.:	74-82-8
EC No.:	200-812-7
REACH Registration No.:	01-2119474442-39
Purity:	100%
	The purity of the substance in this section is used for classification only, and does not represent the actual purity of the substance as supplied, for which other documentation should be consulted.
Trade name:	Biogas, liquefied (LBG)



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SECTION 4: First ai	d measures		
General:		In high concentrations may cause asphyxiation. mobility/consciousness. Victim may not be awa to uncontaminated area wearing self contained warm and rested. Call a doctor. Apply artificial re	re of asphyxiation. Remove victim breathing apparatus. Keep victim
4.1 Description of	first aid measures		
Inhalation:		In high concentrations may cause asphyxiation. mobility/consciousness. Victim may not be awa to uncontaminated area wearing self contained warm and rested. Call a doctor. Apply artificial re	re of asphyxiation. Remove victim breathing apparatus. Keep victim
Eye contact:		Rinse the eye with water immediately. Remove contact lenses, if present and easy to do. Continue rinsing. Flush thoroughly with water for at least 15 minutes. Get immediate medical assistance. If medical assistance is not immediately available, flush an additional 15 minutes.	
Skin Contact:		Contact with evaporating liquid may cause frost is saturated with the liquid and adhering to the thawed with lukewarm water prior to removing	skin then the area should be
Ingestion:		Ingestion is not considered a potential route of	exposure.
4.2 Most important effects, both a delayed:		Respiratory arrest. Contact with liquefied gas ca rapid evaporative cooling.	an cause damage (frostbite) due to
A 3 Indication of a	ny immediate me	dical attention and special treatment needed	
Hazards:		Respiratory arrest. Contact with liquefied gas ca rapid evaporative cooling.	n cause damage (frostbite) due to
Treatment:		Thaw frosted parts with lukewarm water. Do no medical advice/attention.	t rub affected area. Get immediate
SECTION 5: Firefig	hting measures		
General Fire Ha	azards:	Heat may cause the containers to explode.	
5.1 Extinguishing r Suitable exting	nedia guishing media:	Water Spray or Fog. Dry powder. Foam.	
	goisting medid.		

Unsuitable extinguishing Carbon Dioxide. media:

5.2 Special hazards arising from the Incomplete combustion may form carbon monoxide substance or mixture:



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5.3 Advice for firefi Special fire figh procedures:	ighters	In case of fire: Stop leak if safe to do so. Do not ex possibility of uncontrolled explosive reignition ex protected position until container stays cool. Use fire. Isolate the source of the fire or let it burn out	tinguish flames at leak because ists. Continue water spray from extinguishants to contain the
Special protect for fire-fighter		Firefighters must use standard protective equipm coat, helmet with face shield, gloves, rubber boot Guideline: EN 469 Protective clothing for firefight for protective clothing for firefighting. EN 15090 F Protective gloves for firefighters. EN 443 Helmets other structures. EN 137 Respiratory protective de circuit compressed air breathing apparatus with fu testing, marking.	ts, and in enclosed spaces, SCBA. ers. Performance requirements Footwear for firefighters. EN 659 for fire fighting in buildings and evices - Self-contained open-
SECTION 6: Accider	ntal release mea	asures	
6.1 Personal precat protective equi emergency pro	pment and	Evacuate area. Provide adequate ventilation. Con explosive atmospheres . In case of leakage, elimin the concentration of the released product. Preve basements and workpits, or any place where its a Wear self-contained breathing apparatus when e is proved to be safe. EN 137 Respiratory protectiv circuit compressed air breathing apparatus with for testing, marking.	nate all ignition sources. Monitor nt from entering sewers, iccumulation can be dangerous. ntering area unless atmosphere e devices - Self-contained open-
6.2 Environmental	Precautions:	Prevent further leakage or spillage if safe to do so).
6.3 Methods and m containment ar		Provide adequate ventilation. Eliminate sources o cause embrittlement of structural materials.	f ignition. Liquid spillages can
6.4 Reference to ot	her sections:	Refer to sections 8 and 13.	



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SECTION 7: Handling and storage:

7.1 Precautions for safe handling:	Only experienced and properly instructed persons should handle gases under pressure. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Purge system with dry inert gas (e.g. helium or nitrogen) before gas is introduced and when system is placed out of service. Purge air from system before introducing gas. Containers, which contain or have contained flammable or explosive substances, must not be inerted with liquid carbon dioxide. Assess the risk of a potentially explosive atmosphere and the need for suitable equipment i.e. explosion-proof. Take precautionary measures against static discharges. Keep away from ignition sources (including static discharges). Provide electrical earthing of equipment and electrical equipment usable in explosive atmospheres. Use non-sparking tools. Refer to supplier's handling instructions. The substance must be handled in accordance with good industrial hygiene and safety procedures. Ensure the complete system has been (or is regularly) checked for leaks before use. Protect containers from physical damage; do not drag, roll, slide or drop. Do not remove or deface labels provided by the supplier for the identification of the container contents. When moving containers, even for short distances, use appropriate equipment eg. trolley, hand truck, fork truck etc. Secure cylinders in an urgight position at all times, close all valves when not in use. Provide adequate ventilation. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Avoid suckback of water, acid and alkalis. Keep container below 50°C in a well ventilated place. Observe all regulations and local requirements regarding storage of containers. When using do not eat, drink or smoke. Store in accordance with Never use direct flame or electrical heating devices to raise the pressure of a container. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a conta
7.2 Conditions for safe storage, including any incompatibilities:	All electrical equipment in the storage areas should be compatible with the risk of a potentially explosive atmosphere. Segregate from oxidant gases and other oxidants being stored. Containers should not be stored in conditions likely to encourage corrosion. Stored containers should be periodically checked for general conditions and leakage. Container valve guards or caps should be in place. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible material.
7.3 Specific end use(s):	None.



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SECTION 8: Exposure controls/personal protection

8.1 Control Parameters	
Occupational Exposure Limits	None of the companyors have accident even sure limits
	None of the components have assigned exposure limits.
8.2 Exposure controls	
Appropriate engineering controls:	Consider a work permit system e.g. for maintenance activities. Ensure adequate air ventilation. Provide adequate general and local exhaust ventilation. Keep concentrations well below lower explosion limits. Gas detectors should be used when quantities of flammable gases or vapours may be released. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Systems under pressure should be regularly checked for leakages. Product to be handled in a closed system. Only use permanent leak tight installations (e.g. welded pipes). Take precautionary measures against static discharges.
Individual protection measures,	such as personal protective equipment
General information:	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. Keep self contained breathing apparatus readily available for emergency use. Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment. Do not eat, drink or smoke when using the product. The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.
Eye/face protection:	Safety eyewear, goggles or face-shield to EN166 should be used to avoid exposure to liquid splashes. Wear eye protection to EN 166 when using gases. Guideline: EN 166 Personal Eye Protection.
Skin protection	
Hand Protection:	Wear cold insulating gloves. Guideline: EN 511 Protective gloves against cold.
Body protection:	Wear fire resistant or flame retardant clothing. Wear appropriate clothing to prevent skin contamination or freezing. Guideline: ISO/TR 2801:2007 Clothing for protection against heat and flame General recommendations for selection, care and use of protective clothing.
Other:	Wear safety shoes while handling containers Guideline: ISO 20345 Personal protective equipment - Safety footwear.



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Respiratory P	rotection:	Not required.	
Thermal haza	rds:	If there is a risk of contact with the liquid, all pr suitable for extremely low temperatures.	otective equipment should be
Hygiene measures: Specific risk management measures are not required beyond good industri hygiene and safety procedures. Do not eat, drink or smoke when using the product.			
Environmental controls:	exposure	For waste disposal, see section 13 of the SDS.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state:	Gas
Form:	Refrigerated liquefied gas
Color:	Colorless
Odor:	Odorless
Odor Threshold:	Odor threshold is subjective and is inadequate to warn of over exposure.
pH:	Not applicable.
Melting Point:	-182,47 °C Experimental result, Key study
Boiling Point:	-161,48 °C (1.013 hPa) Experimental result, Key study
Sublimation Point:	Not applicable.
Critical Temp. (°C):	-82,0 °C
Flash Point:	Not applicable to gases and gas mixtures.
Evaporation Rate:	Not applicable to gases and gas mixtures.
Flammability (solid, gas):	Flammable Gas
Flammability Limit - Upper (%):	17 %(V)
Flammability Limit - Lower (%):	4,4 %(V)
Vapor pressure:	No reliable data available.
Vapor density (air=1):	0,6
Relative density:	0,42 (25 °C)
Solubility(ies)	
Solubility in Water:	22 mg/l (25 °C)
Partition coefficient (n-octanol/water):	1,09
Autoignition Temperature:	537 °C Experimental result, Key study
Decomposition Temperature:	Not known.
Viscosity	
Kinematic viscosity:	No data available.



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Dynamic vi Explosive prop Oxidizing prop	perties:	0,011 mPa.s (27 °C) Not applicable. Not applicable.	
9.2 Other informat Molecular v Minimum ig		None. 16,04 g/mol (CH4) 0,21 mJ	
SECTION 10: Stabi	lity and reactivit	у	
10.1 Reactivity:		No reactivity hazard other than the effects describe	ed in sub-section below.
10.2 Chemical Stal	pility:	Stable under normal conditions.	
10.3 Possibility of reactions:	hazardous	Can form a potentially explosive atmosphere in air oxidants.	. May react violently with
10.4 Conditions to	avoid:	Keep away from heat, hot surfaces, sparks, open fl sources. No smoking.	ames and other ignition
10.5 Incompatible	Materials:	Cryogenic liquids can cause embrittlement of some properties of other materials. Air and oxidizers. For latest version of ISO-11114.	
10.6 Hazardous De Products:	ecomposition	Under normal conditions of storage and use, hazar should not be produced.	dous decomposition products
SECTION 11: Toxic	ological informa	tion	
General infor	mation:	None.	
11.1 Information of	n toxicological ef	fects	
Acute toxicity Product	/ - Oral	Based on available data, the classification criteria	are not met.
Acute toxicity Product	/ - Dermal	Based on available data, the classification criteria	are not met.
Acute toxicity Product	/ - Inhalation	Based on available data, the classification criteria	are not met.
Methan	е	LC 50 (Rat, 10 min): > 800000 ppm Remarks: Inhala study	ation Experimental result, Key



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Repeated dos Methane		NOAEL (Rat(Female, Male), Inhalation, 13 W Read-across based on grouping of substance	
Skin Corrosior Product	n/Irritation	Based on available data, the classification cr	iteria are not met.
Serious Eye D Product	amage/Eye Irrita	tion Based on available data, the classification cr	iteria are not met.
Respiratory of Product	r Skin Sensitizatio	n Based on available data, the classification cr	iteria are not met.
Germ Cell Mut Product	agenicity	Based on available data, the classification cr	iteria are not met.
In vitro Methane		Chromosome aberration (OECD Guideline 47 Aberration Test)): Negative.	3 (In Vitro Mammalian Chromosome
In vivo Methane		Drosophila Sex-Linked Recessive Lethal Assa	ay (SLRL) test: Negative.
Carcinogenici Product	ty	Based on available data, the classification cr	iteria are not met.
Reproductive Product	toxicity	Based on available data, the classification cr	iteria are not met.
Reproductive Methane	toxicity (Fertility	y) Gestation: Rat Inhalation (OECD Guideline 422 (Combined Repeated Dose Toxic Study with the Reproduction / Developmental Toxicity Screening Test)) NOAEC: 9.000 ppm Fertility: Rat Inhalation (OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)) NOAEC: 3.000 ppm	
Development Methane	al toxicity (Terate	ogenicity) Rat Inhalation (OECD Guideline 422 (Combin with the Reproduction / Developmental Tox NOAEC: 9.000 ppm	
Specific Targe Product	t Organ Toxicity	Single Exposure Based on available data, the classification cr	



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Specific Target Product	Organ Toxicity -	Repeated Exposure Based on available data, the classification crite	eria are not met.		
Aspiration Haza Product	Aspiration HazardProductNot applicable to gases and gas mixtures				
SECTION 12: Ecologi	cal informatio	n			
12.1 Toxicity					
Acute toxicity Product		No ecological damage caused by this product.			
Acute toxicity - Methane	Fish	LC 50 (Various, 96 h): 49,9 mg/l (QSAR) Rema	rks: QSAR QSAR, Key study		
Acute toxicity - Methane	Aquatic Inverte	brates LC 50 (Daphnia sp., 48 h): 69,43 mg/l Remark	s: QSAR QSAR, Key study		
Toxicity to micr Methane	oorganisms	EC 50 (Alga, 96 h): 19,37 mg/l Not harmful to	microorganisms		
12.2 Persistence and Product	l Degradability	Not applicable to gases and gas mixtures			
Biodegradatior Methane	I	100 % (385,5 h) Detected in water. Experimer	ntal result, Key study		
12.3 Bioaccumulativ Product	e potential	The subject product is expected to biodegrade long periods in an aquatic environment.	e and is not expected to persist for		
12.4 Mobility in soil Product		Because of its high volatility, the product is un pollution.	likely to cause ground or water		
Methane		Henry's Law Constant: 3.690 MPa (25 °C)			
12.5 Results of PBT a assessment Product		Not classified as PBT or vPvB.			

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			· · · · · · · · · · · · · · · · · · ·
12.6 Other adverse	effects:		
Global Warmin Methane	ng Potential	Global warming potential: 25 Contains greenhouse gas(es). When discharg to the greenhouse effect. <u>EU. Non-Fluorinated Substance GWPs (Annex</u> <u>fluorinated greenhouse gases</u> - Global warming potential: 25	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:	Do not discharge into any place where its accumulation could be dangerous. Consult supplier for specific recommendations. 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.
Disposal methods:	Refer to the EIGA code of practice (Doc.30 "Disposal of Gases", downloadable at http://www.eiga.org) for more guidance on suitable disposal methods. Dispose of container via supplier only. Discharge, treatment, or disposal may be subject to national, state, or local laws.
European Waste Codes Container:	16 05 04*: Gases in pressure containers (including halons) containing dangerous substances.

SECTION 14: Transport information

ADR

14.1 UN Number:	UN 1972
14.2 UN Proper Shipping Name:	METHANE, REFRIGERATED LIQUID
14.3 Transport Hazard Class(es)	
Class:	2
Label(s):	2.1
Hazard No. (ADR):	223
Tunnel restriction code:	(B/D)
14.4 Packing Group:	_
14.5 Environmental hazards:	Not applicable
14.6 Special precautions for user:	-



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	 14.1 UN Number: 14.2 UN Proper Shipping Name 14.3 Transport Hazard Class(es) Class: Label(s): 14.4 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user: 	UN 1972 METHANE, REFRIGERATED LIQUID 2 2.1 - Not applicable -
IMDG	14.1 UN Number:	UN 1972
	14.2 UN Proper Shipping Name:	METHANE, REFRIGERATED LIQUID
	14.3 Transport Hazard Class(es)	
	Class:	2.1
	Label(s): EmS No.:	2.1
		F-D, S-U
	14.4 Packing Group:	- Natao dia dala
	14.5 Environmental hazards: 14.6 Special precautions for user:	Not applicable –
IATA		
	14.1 UN Number:	UN 1972
	14.2 Proper Shipping Name:	Methane, refrigerated liquid
	14.3 Transport Hazard Class(es): Class:	2.1
	Label(s):	_

Class:	2.1
Label(s):	-
14.4 Packing Group:	-
14.5 Environmental hazards:	Not applicable
14.6 Special precautions for user:	-
Other information	
Passenger and cargo aircraft:	Forbidden.
Cargo aircraft only:	Forbidden.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

Additional identification: 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 that they are firmly secured. Ensure that the container valve is closed and not leaking. Container valve guards or caps should be in place. Ensure adequate air ventilation.



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SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
Methane	74-82-8	100%

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, as amended.:

Classification	Lower-tier	Upper-tier
	Requirements	Requirements
P2: Flammable gases,	10 t	50 t
Category 1 or 2		

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
Methane	74-82-8	100%

National Regulations

Council Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work Directive 89/686/EEC on personal protective equipment Directive 94/9/EC on equipment and protective systems intended for use in potentially explosive atmospheres (ATEX) Only products that comply with the food regulations (EC) No. 1333/2008 and (EU) No. 231/2012 and are labelled as such may be used as food additives. This Safety Data Sheet has been produced to comply with Regulation (EU) 2015/830.

15.2 Chemical safety assessment: CSA has been carried out.

SECTION 16: Other information

Revision Information:

Not relevant.



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Key literature references and sources for data:		Various sourc but are not e		compilation of this SDS, they include	
		Agency for Toxic Substances and Diseases Registry (ATSDR)			
		(http://www.atsdr.cdc.gov/). European Chemical Agency: Guidance on the Compilation of Safety Data Sheets.			
		European Chemical Agency: Information on Registered Substances			
		http://apps.echa.europa.eu/registered/registered-sub.aspx#search European Industrial Gases Association (EIGA) Doc. 169 Classification and Labelling			
		guide.			
			Programme on Chemical Safety (h		
		ISO 10156:2010 Gases and gas mixtures - Determination of fire potential and			
		oxidizing ability for the selection of cylinder valve outlets. Matheson Gas Data Book, 7th Edition.			
				(NIST) Standard Reference Database	
		The ESIS (European chemical Substances 5 Information System) platform of the			
		former European Chemicals Bureau (ECB) ESIS (http://ecb.jrc.ec.europa.eu/esis/).			
		The European Chemical Industry Council (CEFIC) ERICards. United States of America's National Library of Medicine's toxicology data network			
		TOXNET (http://toxnet.nlm.nih.gov/index.html)			
		Threshold Limit Values (TLV) from the American Conference of Governmental Industrial Hygienists (ACGIH).			
		Substance specific information from suppliers.			
		Details given in this document are believed to be correct at the time of publication.			
Wording of the H-s	tatements in se	ction 2 and 3			
5		H220	Extremely flammable gas.		
		H280	Contains gas under pressure; m		
		H281	Contains refrigerated gas; may o	cause cryogenic burns of injury.	
Classification acco	rding to Regulat	ion (EC) No 12	72/2008 as amended.		
	Flam. Gas 1, H220				
		Press. Gas Re	efrig. Liq. Gas, H281		
Other information:		Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Ensure adequate air ventilatio Ensure all national/local regulations are observed. Ensure equipment is adequately earthed. 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.		d out. Ensure adequate air ventilation. ved. Ensure equipment is adequately he preparation of this document, no	
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Disclaimer: This information is provided without warranty. correct. This information should be used to ma the methods to safeguard workers and the env		ke an independent determination of			