CNG – Natural Gas, Compressed Safety Data Sheet





according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 04/2020 Version: 2.0

	ostance/mixture and of the company/undertaking
1.1. Product identifier	
Product form:	Substance
Trade name:	CNG – NATURAL GAS, COMPRESSED
Chemical name:	methane
EC Index No.:	601-001-00- 4
EC-No. :	200-812-7
CAS No. :	74-82-8
Product group:	Fuel
1.2. Relevant identified uses of the	substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Industrial/Professional use spec:	Industrial For professional use only
Use of the substance/mixture:	fuel for commercial equipment which has been specifically designed to run on Natural Gas; internal combustion engine fuel (via on board CNG storage, when used as a propulsion fuel); Flogas CNG is not supplied for domestic consumer use (other than as a road fuel).
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the so	afety data sheet
Supplier Flogas Britain Ltd. Rayns Way, Watermead Business Park, P.C T: 0116 264 9000 enquiries@flogas.co.uk	D. Box Syston, Leicestershire, LE7 1PF - United Kingdom

Emergency number:	03457 200 100

SECTION 2: Hazards identification	
2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Flammable gases, Category 1A	H220
Gases under pressure : Compressed gas	H280
Full text of H statements:	see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements			
Labelling according to Regulation (I	C) No. 1272/2008 [CLP]		
Hazard pictograms (CLP):			

GHS02

Signal word (CLP):	Danger
Hazard statements (CLP):	H220 - Extremely flammable gas. H280 - Contains gas under pressure; may explode if heated.
Precautionary statements (CLP):	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381 - In case of leakage, eliminate all ignition sources. P410 + P403 - Protect from sunlight. Store in a well ventilated place.
2.3. Other hazards	

No additional information available

CNG NATURAL GAS, COMPRESSED	
74-82-8	
200-812-7	
601-001-00-4	
Product identifier	%
(CAS No.) 74-82-8 (EC-No.) 200-812-7 (EC Index-No.) 601-001-00-4 (REACH-no) Exempt	≤ 100
	74-82-8 200-812-7 601-001-00-4 Product identifier (CAS No.) 74-82-8 (EC-No.) 200-812-7 (EC Index-No.) 601-001-00-4

3.2. Mixtures

Not applicable

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First aid measures general:	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).	
First aid measures after inhalation:	Allow affected person to breathe fresh air. Allow the victim to rest. In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Inhalation of high concentration of vapours may cause respiratory irritation, dizziness, and head ache. If respiration or pulse has stopped, have a trained person administer Basic Life Support (Cardio Pulmonary Resuscitation and /or Automatic External Defibrillator) and CALL FOR EMERGENCY SERVICES IMMEDIATELY. If necessary, give external cardiac massage and obtain medical assistance.	
First aid measures after ingestion:	Ingestion is not considered a potential route of exposure.	

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

Symptoms/effects after inhalation:

Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, breathing arrest.

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

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media:	Foam. Dry powder. Carbon dioxide. Sand. Cool closed containers exposed to fire with water spray. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Move containers from fire area if it can be done without personal risk. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen.
Unsuitable extinguishing media:	Do not use a heavy water stream.
5.2. Special hazards arising from the s	ubstance or mixture
Fire hazard:	Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Leaks/ruptures in high pressure system can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).
Explosion hazard:	Contains gas under pressure; may explode if heated.
Reactivity in case of fire:	On heating: release of highly flammable gases/vapours e.g.: (methane).
5.3. Advice for firefighters	
Precautionary measures fire:	Appropriate self-contained breathing apparatus may be required. Carbon dioxide and inert gas can displace oxygen. Components of natural gas are lighter than air and should dissipate rapidly before having any effect in open areas. This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment.
Firefighting instructions:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Protective equipment for firefighters:	Do not enter fire area without proper protective equipment, including respiratory protection.
Other information:	Cool adjacent tanks / containers / drums with water jet. Exposure to fire may cause containers to rupture/explode.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
General measures:	Evacuate personnel to a safe area.	
6.1.1. For non-emergency personnel		
Protective equipment:	Ensure adequate ventilation. In case of fire: Wear self contained breathing apparatus.	
Emergency procedures:	Evacuate unnecessary personnel. Avoid ignition sources.	
6.1.2. For emergency responders		
Protective equipment:	Equip clean-up crew with proper protection.	
Emergency procedures:	Ventilate area.	
6.2. Environmental precautions		

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up Methods for cleaning up: Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling:	Provide good ventilation in process area to prevent formation of vapour. Avoid any leak and work in fully closed specially engineered systems. Avoid ignition sources. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Contains gas under pressure; may explode if heated. Only experienced and properly instructed persons should handle gases under pressure. Do not handle until all safety precautions have been read and understood. Damaged cylinders should be handled by specialists only. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C.		
7.2. Conditions for safe storage, including any incompatibilities			
Technical measures:	Keep container tightly closed. Store in tightly closed, leak-proof containers.		
Storage conditions:	Keep only in the original container in a cool, well ventilated place away from: Heat sources, Ignition sources. Keep container closed when not in use.		
Incompatible products:	Strong bases. Strong acids.		
Incompatible materials:	Sources of ignition. Direct sunlight.		
Storage area:	Store in a well ventilated place.		
7.3. Specific end use(s)			
Defente esetien 1			

Refer to section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	
No additional information available.	
8.2. Exposure controls	
Personal protective equipment:	Avoid all unnecessary exposure.

Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 13 3). Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen deficient atmospheres.

Personal protective equipment symbol(s):



Other information: Do not eat, drink or smoke during use.

SECTION 9 : Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state:	Gas	
Appearance:	Colourless gas	
Colour:	Colourless	
Odour:	Odourless	
Odour threshold:	Not determined for this product	
pH:	Not determined for this product	
Relative evaporation rate (butylacetatee=1):	Not determined for this product	
Melting point:	-182 °C	
Freezing point:	Not determined for this product	
Boiling point:	- 161 ℃	
Flash point:	Not determined for this product	
Auto ignition temperature:	595 ℃	
Decomposition temperature:	Not determined for this product	
Flammability (solid, gas):	4.4% to 17% (by volume) in air Extremely flammable gas	
Vapour pressure:	Not determined for this product	
Relative vapour density at 20 °C:	No data available	
Relative density:	0.42 (Water = 1.0)	
Relative gas density:	0.6 (Air = 1.0)	
Solubility:	Not determined for this product	
Partition coefficient n-octanol/water (Log Pow):	Not determined for this product	
Viscosity, kinematic:	Not determined for this product	
Viscosity, dynamic:	Not determined for this product	
Explosive properties:	No data available	
Oxidising properties:	No data available	
Explosive limits:	No data available	

No additional information available

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated. May react violently with oxidants.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information				
11.1. Information on toxicological effects				
Acute toxicity (oral):	Not classified (Based on available data, the classification criteria are not met)			
Acute toxicity (dermal):	Not classified (Based on available data, the classification criteria are not met)			
Acute toxicity (inhalation):	Not classified (Based on available data, the classification criteria are not met)			
Skin corrosion/irritation:	Not classified pH: Not determined for this product			
Additional information:	Based on available data, the classification criteria are not met			
Serious eye damage/irritation:	Not classified pH: Not determined for this product			
Additional information:	Based on available data, the classification criteria are not met			
Respiratory or skin sensitisation:	Not classified			
Additional information:	Based on available data, the classification criteria are not met			
Germ cell mutagenicity:	Not classified			
Additional information:	Based on available data, the classification criteria are not met			
Carcinogenicity:	Not classified			
Additional information:	Based on available data, the classification criteria are not met			
Reproductive toxicity:	Not classified			
Additional information:	Based on available data, the classification criteria are not met			
STOT-single exposure:	Not classified			
Additional information:	Based on available data, the classification criteria are not met			
STOT-repeated exposure:	Not classified			
Additional information:	Based on available data, the classification criteria are not met			
Aspiration hazard:	Not classified			
Additional information:	Based on available data, the classification criteria are not met			
Potential Adverse human health effects and symptoms:	Based on available data, the classification criteria are not met.			

SECTION 12: Ecological information		
12.1. Toxicity		
Hazardous to the aquatic environment, short term (acute):	Not classified	
Hazardous to the aquatic environment, long term (chronic):	Not classified	
12.2. Persistence and degradability		
CNG NATURAL GAS, COMPRESSED (74-82-8)		
Persistence and degradability	Not established	
12.3. Bioaccumulative potential		
CNG NATURAL GAS, COMPRESSED (74-82-8)		
Bioaccumulative potential	Not established	
12.4. Mobility in soil		
Natural Gas (Sweet) (74-82-8)		
Mobility in soil	Not applicable	

12.5.	Results	of PBT and	d vPvB	assessment

No additional information available

12.6. Other adverse effects

Additional information:

Avoid release to the environment.

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Product/Packaging disposal recommendations:	Dispose in a safe manner in accordance with local/national regulations. Damaged cylinders should be handled by specialists only. Handle empty containers with care because residual vapours are flammable. All containers must be labelled to warn against exposure.	
Ecology – waste materials:	Avoid release to the environment. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.	

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1971	UN 1971	UN 1971	UN 1971	UN 1971
14.2. UN proper shippir	ng name			
PROPANE	PROPANE	PROPANE	PROPANE	PROPANE
Transport document dese	cription			
UN 1971 NATURAL GAS, COMPRESSED, 2.1, (B/D)	NATURAL GAS, COMPRESSED	Natural gas, compressed	NATURAL GAS, COMPRESSED	NATURAL GAS, COMPRESSED
14.3. Transport hazard	class(es)			
2.1	2.1	2.1	2.1	2.1
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user	
Overland transport	
Classification code (ADR):	1F
Special provisions (ADR):	392, 662
Limited quantities (ADR):	0
Excepted quantities (ADR):	EO
Packing instructions (ADR):	P200
Mixed packing provisions (ADR):	MP9
Portable tank and bulk container instructions (ADR):	(M)
Tank code (ADR):	CxBN(M)
Tank special provisions (ADR):	TA4, TT9
Vehicle for tank carriage:	FL
Transport category (ADR):	2
Special provisions for carriage Loading, unloading and handling (ADR):	CV9, CV10, CV36
Special provisions for carriage - Operation (ADR):	S2, S20
Hazard identification number (Kemler No.):	23
Orange plates:	23 1971
Tunnel restriction code (ADR):	B/D
EAC code:	2SE
Transport by sea	
Packing instructions (IMDG):	P200
EmS No. (Fire):	F-D
EmS No. (Spillage):	S-U
Stowage category (IMDG):	E
Stowage and handling (IMDG):	SW2
Properties and observations (IMDG):	Explosive limits: 5% to 16% Lighter than air (methane 0.55).
Air transport	
PCA Excepted quantities (IATA):	EO
PCA Limited quantities (IATA):	Forbidden
PCA limited quantity max net quantity (IATA):	Forbidden
PCA packing instructions (IATA):	Forbidden
PCA max net quantity (IATA):	Forbidden
CAO packing instructions (IATA):	200
CAO max net quantity (IATA):	150kg
Special provisions (IATA):	A1
ERG code (IATA):	10L

In	land	waterway	r transport
		,	

Classification code (ADN):	1F	
Special provisions (ADN):	392, 662	
Limited quantities (ADN):	0	
Excepted quantities (ADN):	EO	
Equipment required (ADN):	PP, EX, A	
Ventilation (ADN):	VE01	
Number of blue cones/lights (ADN):	1	
Rail transport		
Classification code (RID):	1F	
Special provisions (RID):	392, 662	
Limited quantities (RID):	0	
Excepted quantities (RID):	EO	
Packing instructions (RID):	P200	
Mixed packing provisions (RID):	MP9	
Portable tank and bulk container instructions (RID):	(M)	
Tank codes for RID tanks (RID):	CxBN(M)	
Special provisions for RID tanks (RID):	TU38, TE22, TA4, TT9	
Transport category (RID):	2	
Special provisions for carriage - Loading, unloading and handling (RID):	CW9, CW10, CW36	
Colis express (express parcels) (RID):	CE3	
Hazard identification number (RID):	23	
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code		

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU Regulations

No REACH Annex XVII restrictions

CNG - NATURAL GAS, COMPRESSED is not on the REACH Candidate List

CNG - NATURAL GAS, COM PRESSED is not on the REACH Annex XIV List

CNG – NATURAL GAS, COMPRESSED is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

CNG – NATURAL GAS, COMPRESSED is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information			
Sources of Key data:	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances an d mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ECHA (European Chemicals Agency). CLP Inventory.		
Other information:	None		
Full text of H and EUH statements:			
Flam. Gas 1A	Flammable gases, Category 1A		
Press. Gas (Comp.)	Gases under pressure: Compressed gas		
H220	Extremely flammable gas		
H280	Contains gas under pressure; may explode if heated		

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.