

### ≤ 100 ppm CO & CH4 in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00547 Issue date: 3/2/2016 Revision date: 1/11/2023 Supersedes version of: 8/23/2022 Version: 3.0





1.1. Product identifier	
SDS no	: SDS 00547
1.2. Relevant identified uses of the sub-	stance or mixture and uses advised against
Relevant identified uses Uses advised against	<ul> <li>Industrial and professional uses. Perform risk assessment prior to use.</li> <li>Consumer use.</li> <li>Uses other than those listed above are not supported, contact your supplier for more information on other uses.</li> </ul>
1.3. Details of the supplier of the safety	data sheet
Air Liquide UK Ltd Station Road, Coleshill Birmingham, B46 1JY	
1.4. Emergency telephone number	
Emergency telephone number	: 01675 462695 (Available 24/7)
SECTION 2: Hazards identificat	ion
2.1. Classification of the substance or n	nixture
Classification according to Regulation (	EC) No. 1272/2008 [CLP]
Physical hazards Gases under p	pressure : Compressed gas H280
2.2. Label elements	
	No. 1272/2008 [CLP]
Labelling according to Regulation (EC)	
Labelling according to Regulation (EC) Hazard pictograms (CLP)	
Hazard pictograms (CLP) Signal word (CLP)	GHS04 : Warning
Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP)	GHS04
Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP)	GHS04 : Warning
Hazard pictograms (CLP) Signal word (CLP)	<ul> <li>GHS04</li> <li>Warning</li> <li>H280 - Contains gas under pressure; may explode if heated.</li> </ul>



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#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitrogen	CAS-No.: 7727-37-9 EC-No.: 231-783-9 EC Index-No.: REACH-no: *1	99.98	Press. Gas (Comp.), H280
Carbon monoxide	CAS-No.: 630-08-0 EC-No.: 211-128-3 EC Index-No.: 006-001-00-2 REACH-no: 01-2119480165-39	0.01	Flam. Gas 1B, H221 Press. Gas (Comp.), H280 Acute Tox. 3 (Inhalation:gas), H331 Repr. 1A, H360D STOT RE 1, H372
Methane	CAS-No.: 74-82-8 EC-No.: 200-812-7 EC Index-No.: 601-001-00-4 REACH-no: 01-2119474442-39	0.01	Flam. Gas 1A, H220 Press. Gas (Comp.), H280

Full text of H- and EUH-statements: see section 16

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

\*1: Listed in Annex IV / V REACH, exempted from registration.

\*3: Registration not required: Substance manufactured or imported < 1t/y.

SECTION 4: First aid mean	sures
4.1. Description of first aid meas	sures
- Inhalation	<ul> <li>Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.</li> </ul>
- Skin contact	: Adverse effects not expected from this product.
- Eye contact	: Adverse effects not expected from this product.
- Ingestion	: Ingestion is not considered a potential route of exposure.
4.2. Most important symptoms a	nd effects, both acute and delayed
	In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. See section 11.
4.3. Indication of any immediate	medical attention and special treatment needed

None.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
- Suitable extinguishing media	: Water spray or fog. Product does not burn, use fire control measures appropriate for the surrounding fire.	
- Unsuitable extinguishing media	: Do not use water jet to extinguish.	



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5.2. Special hazards arising from the substance or mixture		
Specific hazards Hazardous combustion products	<ul><li>Exposure to fire may cause containers to rupture/explode.</li><li>None.</li></ul>	
5.3. Advice for firefighters		
Specific methods	<ul> <li>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.</li> <li>If possible, stop flow of product.</li> <li>Use water spray or fog to knock down fire fumes if possible.</li> <li>Move containers away from the fire area if this can be done without risk.</li> <li>In confined approx use calf containers approximate the prosting approximate.</li> </ul>	
Special protective equipment for fire fighters	<ul> <li>In confined space use self-contained breathing apparatus. Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.</li> <li>Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.</li> <li>Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.</li> </ul>	

SECTION 6: Accidental release measures	
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6.1. Personal precautions, protective equipment a For non-emergency personnel	: Act in accordance with local emergency plan.
For hon-chicigency personner	Try to stop release.
	Evacuate area.
	Ensure adequate air ventilation.
	Stay upwind.
	See section 8 of the SDS for more information on personal protective equipment.
For emergency responders	: Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
	Oxygen detectors should be used when asphyxiating gases may be released.
	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 cl	eaning up
	Ventilate area.
6.4. Reference to other sections	
	See also sections 8 and 13.

SECTION 7: Handling and storage	ge
7.1. Precautions for safe handling	
Safe use of the product	<ul> <li>Do not breathe gas. Avoid release of product into atmosphere. The product must be handled in accordance with good industrial hygiene and safety procedures. Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations. Ensure the complete gas system was (or is regularily) checked for leaks before use. Do not smoke while handling product. 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.</li> </ul>



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Safe handling of the gas receptacle :	<ul> <li>Refer to supplier's container handling instructions.</li> <li>Do not allow backfeed into the container.</li> <li>Protect containers from physical damage; do not drag, roll, slide or drop.</li> <li>When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.</li> <li>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.</li> <li>If user experiences any difficulty operating valve discontinue use and contact supplier.</li> <li>Never attempt to repair or modify container valves or safety relief devices.</li> <li>Damaged valves should be reported immediately to the supplier.</li> <li>Keep container valve outlets clean and free from contaminants particularly oil and water.</li> <li>Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.</li> <li>Close container valve after each use and when empty, even if still connected to equipment.</li> <li>Never attempt to transfer gases from one cylinder/container to another.</li> <li>Never use direct flame or electrical heating devices to raise the pressure of a container.</li> <li>Do not remove or deface labels provided by the supplier for the identification of the content of the container.</li> </ul>
	Suck back of water into the container must be prevented. Open valve slowly to avoid pressure shock.
7.2. Conditions for safe storage, including any inco	ompatibilities
	Observe all regulations and local requirements regarding storage of containers. Containers should not be stored in conditions likely to encourage corrosion. Container valve guards or caps should be in place. Containers should be stored in the vertical position and properly secured to prevent them from falling over. Stored containers should be periodically checked for general condition and leakage. Keep container below 50°C in a well ventilated place. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials.
7.3. Specific end use(s)	

None.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Carbon monoxide (630-08-0)		
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	35 mg/m <sup>a</sup> Limits applicable to underground mining & tunnelling industries ONLY until 21/8/23	
WEL TWA (OEL TWA) [2]	30 ppm Limits applicable to underground mining & tunnelling industries ONLY until 21/8/23	
WEL STEL (OEL STEL)	232 mg/m <sup>3</sup> Limits applicable to underground mining & tunnelling industries ONLY until 21/8/23	
WEL STEL (OEL STEL) [ppm]	200 ppm Limits applicable to underground mining & tunnelling industries ONLY until 21/8/23	

Carbon monoxide (630-08-0)	
DNEL: Derived no effect level (Workers)	
Acute - local effects, inhalation 117 ppm	



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Acute - systemic effects, inhalation		117 mg/m³		
Long-term - local effects, inhalation		23 ppm		
Long-term - systemic effects, inhalation		23 mg/m <sup>3</sup>		
PNEC (Predicted No-Effect Concentration)	: None establi	shed.		
8.2. Exposure controls				
8.2.1. Appropriate engineering controls				
	Provide adec	quate general and local exhaust ventilation.		
		ler pressure should be regularily checked for leakages.		
	•	sure is below occupational exposure limits (where available).		
		Oxygen detectors should be used when asphyxiating gases may be released.		
	,,,	use of a work permit system e.g. for maintenance activities.		
8.2.2. Individual protection measures, e.g. p	ersonal protective ed	quipment		
	A risk assess	sment 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			
	The following	The following recommendations should be considered:		
	PPE complia	PPE compliant to the recommended EN/ISO standards should be selected.		
<ul> <li>Eye/face protection</li> </ul>	: Wear safety glasses with side shields.			
	Standard EN	166 - Personal eye-protection - specifications.		
Skin protection				
- Hand protection		g gloves when handling gas containers.		
Other		I 388 - Protective gloves against mechanical risk, performance level 1 or high		
- Other		shoes while handling containers. I ISO 20345 - Personal protective equipment - Safety footwear.		
Respiratory protection		ay be used if all surrounding conditions e.g. type and concentration of the		
Respiratory protection		(s) and duration of use are known.		
		rs with full face mask, where exposure limits may be exceeded for a short-terr		
	period, e.g. connecting or disconnecting containers.			
	Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full			
	face mask.			
	Gas filters do not protect against oxygen deficiency.			
		Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be		
		en-deficient atmospheres.		
		I 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks		
Thermal hazards	: None in addi	tion to the above sections.		
8.2.3. Environmental exposure controls				

None necessary.

### **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	: Not applicable for gas mixtures.
Boiling point	: Not applicable for gas mixtures.
	It is technically not possible to determine the boiling point or range of this mixture.
	Component with lowest boiling point: Nitrogen -196 °C
Flammability	: Non flammable.
Lower explosion limit	: Not available.
Upper explosion limit	: Not available.
Flash point	: Not applicable for gas mixtures.
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.



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рН	: Not applicable for gas mixtures.
Viscosity, kinematic	: Not applicable.
Water solubility [20°C]	: Mixture is partially soluble in water
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for gas mixtures.
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.
Density and/or relative density	: Not applicable.
Relative vapour density (air=1)	: Lighter or similar to air.
Particle characteristics	: Not applicable.
9.2. Other information	
9.2.1. Information with regard to physical haza	rd classes
Explosive properties	: Not applicable.
Explosion limits	: Non flammable.
Oxidising properties	: Not applicable.
9.2.2. Other safety characteristics	
Molar mass	: Not applicable for gas mixtures.
Evaporation rate	: Not applicable for gas mixtures.
Other data	: None.

SECTION 10: Stability and reactivity	
<u>10.1. Reactivity</u>	
	No reactivity hazard other than the effects described in sub-sections below. Data for mixture are not available.
	This mixture contains components with the following reactivity : Can form explosive mixture with air. May react violently with oxidants.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	None.
10.4. Conditions to avoid	
	None. Avoid moisture in installation systems.
10.5. Incompatible materials	
	None. 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.

SECTION 11: Toxicological information		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity	oxicity : Classification criteria are not met.	
Carbon monoxide (630-08-0)		
LC50 Inhalation - Rat [ppm]	3760 ppm/1h (ADR) 1300 ppm/4h (CLP)	
Skin corrosion/irritation         No known effects from this product.		



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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	: Classification criteria are not met.
STOT-single exposure	: No known effects from this product.
STOT-repeated exposure	: Classification criteria are not met.
Aspiration hazard	: Not applicable for gases and gas mixtures.
11.2. Information on other hazards	

No additional information available

SECTION 12	Ecological information	
SECTION 12.		

#### 12.1. Toxicity

Assessment	: Classification criteria are not met.
EC50 48h - Daphnia magna [mg/l]	: No data available.
EC50 72h - Algae [mg/l]	: No data available.
LC50 96 h - Fish [mg/l]	: No data available.

Carbon monoxide (630-08-0)	
EC50 48h - Daphnia magna [mg/l]	No data available.
EC50 72h - Algae [mg/l]	No data available.
LC50 96 h - Fish [mg/l]	No data available.

Methane (74-82-8)	
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

Nitrogen (7727-37-9)	
EC50 48h - Daphnia magna [mg/l]	No data available.
EC50 72h - Algae [mg/l]	No data available.
LC50 96 h - Fish [mg/l]	No data available.
12.2. Persistence and degradability	
Assessment	: No ecological damage caused by this product.
12.3. Bioaccumulative potential	
Assessment	: No data available.
<u>12.4. Mobility in soil</u>	
Assessment	: No data available.
Assessment	: No ecological damage caused by this product.
12.5. Results of PBT and vPvB assessment	
Assessment	: Not classified as PBT or vPvB.



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12.6. Endocrine disrupting properties	
12.0. Endocrine disrupting properties	
Assessment	:
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.
Effect on global warming	: Contains greenhouse gas(es).
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
	May be vented to atmosphere in a well ventilated place.
	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 05 : Gases in pressure containers other than those mentioned in 16 05 04.

#### 13.2. Additional information

Decision 2000/532/EC as amended)

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.	l : 1956
14.2. UN proper shipping name	
Transport by road/rail (ADR/RID)	: COMPRESSED GAS, N.O.S. (Nitrogen)
Transport by air (ICAO-TI / IATA-DGR)	: Compressed gas, n.o.s. (Nitrogen)
Transport by sea (IMDG)	: COMPRESSED GAS, N.O.S. (Nitrogen)
14.3. Transport hazard class(es)	
Labelling	
	2.2 : Non-flammable, non-toxic gases.
Transport by road/rail (ADR/RID) Class	: 2
Classification code	: 2 : 1A
Hazard identification number	: 20
Tunnel Restriction	: E - Passage forbidden through tunnels of category E
Transport by air (ICAO-TI / IATA-DGR)	
Class / Div. (Sub. risk(s))	: 2.2
Transport by sea (IMDG)	
Class / Div. (Sub. risk(s))	: 2.2
Emergency Schedule (EmS) - Fire	: F-C
Emergency Schedule (EmS) - Spillage	: S-V
14.4. Packing group	
Transport by road/rail (ADR/RID)	: Not applicable.
Transport by air (ICAO-TI / IATA-DGR)	: Not applicable.
Transport by sea (IMDG)	: Not applicable.



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14.5. Environmental hazards	
Transport by road/rail (ADR/RID)	: None.
Transport by air (ICAO-TI / IATA-DGR)	: None.
Transport by sea (IMDG)	: None.
14.6. Special precautions for user	
Packing Instruction(s)	
Transport by road/rail (ADR/RID)	: P200.
Transport by air (ICAO-TI / IATA-DGR)	
Passenger and Cargo Aircraft	: 200.
Cargo Aircraft only	: 200.
Transport by sea (IMDG)	: P200.
Special transport precautions	<ul> <li>Avoid transport on vehicles where the load space is not separated from the driver's compartment.</li> <li>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.</li> <li>Before transporting product containers: <ul> <li>Ensure there is adequate ventilation.</li> <li>Ensure that containers are firmly secured.</li> <li>Ensure valve is closed and not leaking.</li> <li>Ensure valve outlet cap nut or plug (where provided) is correctly fitted.</li> </ul> </li> </ul>
14.7. Maritime transport in bulk according to I	MO instruments
	Not applicable.

SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
Restrictions on use	: None. Contains no substance on the REACH candidate list.	
Other information, restriction and prohibition regulations	: Contains no substance 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.	
Seveso Directive : 2012/18/EU (Seveso III)	: Not covered.	
National regulations		
Regulatory reference	: Ensure all national/local regulations are observed.	
15.2. Chemical safety assessment		

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

A CSA does not need to be carried out for this product.

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Abbreviations and acronyms	<ul> <li>ATE - Acute Toxicity Estimate.</li> <li>CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.</li> <li>REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</li> <li>EINECS - European Inventory of Existing Commercial Chemical Substances.</li> <li>CAS# - Chemical Abstract Service number.</li> <li>PPE - Personal Protection Equipment.</li> <li>LC50 - Lethal Concentration to 50 % of a test population.</li> <li>RMM - Risk Management Measures.</li> <li>PBT - Persistent, Bioaccumulative and Toxic.</li> <li>vPvB - Very Persistent and Very Bioaccumulative.</li> <li>STOT - SE : Specific Target Organ Toxicity - Single Exposure.</li> <li>CSA - Chemical Safety Assessment.</li> <li>EN - European Agreement concerning the International Carriage of Dangerous Goods by Road.</li> <li>IATA - International Air Transport Association.</li> <li>IMDG code - International Maritime Dangerous Goods.</li> <li>RID - Regulations concerning the International Carriage of Dangerous Goods by Road.</li> <li>IXTA - International Maritime Dangerous Goods.</li> <li>RID - Regulations concerning the International Carriage of Dangerous Goods by Road.</li> <li>IXTA - International Maritime Dangerous Goods.</li> <li>RID - Regulations concerning the International Carriage of Dangerous Goods by Road.</li> <li>IXTA - International Maritime Dangerous Goods.</li> <li>RID - Regulations concerning the International Carriage of Dangerous Goods by Road.</li> <li>IXTA - International Maritime Dangerous Goods.</li> <li>RID - Regulations concerning the International Carriage of Dangerous Goods by Road.</li> <li>IXTA - International Maritime Dangerous Goods.</li> <li>RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.</li> <li>WGK - Water Hazard Class.</li> <li>STOT - RE : Specific Target Organ Toxicity - Repeated Exposure.</li> <li>UF1 : Unique Formula Identifier.</li> </ul>
Training advice	<ul> <li>The hazard of asphyxiation is often overlooked and must be stressed during operator training.</li> <li>For more guidance, refer to EIGA SL 01 "Dangers of Asphyxiation", downloadable at http://www.eiga.eu</li> </ul>
Further information	: Classification using data from databases maintained by the European Industrial Gases Association (EIGA). Data is maintained in EIGA doc 169 : 'Classification and Labelling Guide', downloadable at : http://www.eiga.eu. Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP).

Full text of H- and EUH-statements	
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Gas 1B	Flammable gases, Category 1B
H220	Extremely flammable gas.
H221	Flammable gas.
H280	Contains gas under pressure; may explode if heated.
H331	Toxic if inhaled.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Repr. 1A	Reproductive toxicity, Category 1A
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1

#### DISCLAIMER OF LIABILITY

 Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.
 Details given in this document are believed to be correct at the time of going to press.
 Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

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