

## 400 ppm CO, 300 ppm H2 in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00917 Issue date: 12/15/2017 Revision date: 1/13/2023 Supersedes version of: 8/24/2022 Version: 3.0





1.1. Product identifier	
SDS no	: SDS 00917
1.2. Relevant identified	I uses of the substance or mixture and uses advised against
Relevant identified uses	: Industrial and professional uses. Perform risk assessment prior to use.
Uses advised against	<ul> <li>Consumer use. 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 supp	plier of the safety data sheet
Air Liquide UK Ltd. Station Road Coleshill B46 1JY Birmingham United Kingdom safety.aluk@airliquide.cd	m
1.4. Emergency teleph	
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Emergency telephone n	umber : 01675 462695 (Available 24/7)
Emergency telephone no	umber : 01675 462695 (Available 24/7)
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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	99.93	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	0.04	Flam. Gas 1B, H221 Press. Gas (Comp.), H280 Acute Tox. 3 (Inhalation:gas), H331 Repr. 1A, H360D STOT RE 1, H372
Hydrogen	CAS-No.: 1333-74-0 EC-No.: 215-605-7 EC Index-No.: 001-001-00-9 REACH-no: *1	0.03	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 measures		
4.1. Description of first aid measure	<u>s</u>	
- 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 and	effects, both acute and delayed	
	In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. See section 11.	
4.3. Indication of any immediate medical attention and special treatment needed		
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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		
Special protective equipment for fire fighters	<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 space use self-contained breathing apparatus.</li> </ul>	
	<ul> <li>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	and emergency procedures		
For non-emergency personnel	: Act in accordance with local emergency plan.		
	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 c	leaning up		
	Ventilate area.		
6.4. Reference to other sections			
	See also sections 8 and 13.		

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Safe use of the product	<ul> <li>Do not breathe gas.</li> <li>Avoid release of product into atmosphere.</li> <li>The product must be handled in accordance with good industrial hygiene and safety procedures.</li> <li>Only experienced and properly instructed persons should handle gases under pressure.</li> <li>Consider pressure relief device(s) in gas installations.</li> <li>Ensure the complete gas system was (or is regularily) checked for leaks before use.</li> <li>Do not smoke while handling product.</li> <li>Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.</li> <li>Avoid suck back of water, acid and alkalis.</li> </ul>	



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	Defende sum liede senteinen hendling instructions
Safe handling of the gas receptacle :	Refer to supplier's container handling instructions.
	Do not allow backfeed into the container.
	Protect containers from physical damage; do not drag, roll, slide or drop.
	When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.)
	designed to transport cylinders.
	Leave valve protection caps in place until the container has been secured against either a
	wall or bench or placed in a container stand and is ready for use.
	If user experiences any difficulty operating valve discontinue use and contact supplier.
	Never attempt to repair or modify container valves or safety relief devices.
	Damaged valves should be reported immediately to the supplier.
	Keep container valve outlets clean and free from contaminants particularly oil and water.
	Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.
	Close container valve after each use and when empty, even if still connected to equipment. Never attempt to transfer gases from one cylinder/container to another.
	Never use direct flame or electrical heating devices to raise the pressure of a container.
	Do not remove or deface labels provided by the supplier for the identification of the content
	of the container.
	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) [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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<b></b>		
Acute - systemic effects, inhalation		117 mg/m³
Long-term - local effects, inhalation		23 ppm
Long-term - systemic effects, inhalation		23 mg/m³
PNEC (Predicted No-Effect Concentration)	: None establis	shed.
8.2. Exposure controls		
8.2.1. Appropriate engineering controls		
	Systems und Ensure expos Oxygen deter	uate general and local exhaust ventilation. er pressure should be regularily checked for leakages. sure is below occupational exposure limits (where available). ctors 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. pers	sonal protective eq	Juipment
Eye/face protection	risks related t The following PPE complian : Wear safety g	ment should be conducted and documented in each work area to assess the to the use of the product and to select the PPE that matches the relevant risk. recommendations should be considered: In to the recommended EN/ISO standards should be selected. glasses with side shields. 166 - Personal eye-protection - specifications.
Skin protection		
- Hand protection	Standard EN	g gloves when handling gas containers. 388 - Protective gloves against mechanical risk, performance level 1 or higher.
- Other		shoes while handling containers. ISO 20345 - Personal protective equipment - Safety footwear.
<ul> <li>Respiratory protection</li> </ul>	: Gas filters ma contaminant( Use gas filter period, e.g. co Standard EN face mask. Gas filters do Self container used in oxyge	ay be used if all surrounding conditions e.g. type and concentration of the s) and duration of use are known. s with full face mask, where exposure limits may be exceeded for a short-term onnecting or disconnecting containers. 137 - Self-contained open-circuit compressed air breathing apparatus with full not protect against oxygen deficiency. d breathing apparatus (SCBA) or positive pressure airline with mask are to be en-deficient atmospheres. 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks .
Thermal hazards		ion 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: Hydrogen -253 °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	
10.1. Reactivity	
	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	: 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

<b>SECTION 12: Ecological information</b>	า
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#### 12.1. Toxicity

Assessment	: No ecological damage caused by this product.
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.

Hydrogen (1333-74-0)	
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.

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 Endoaring discusting properties	
<u>12.6. Endocrine disrupting properties</u>	
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 Decision 2000/532/EC as amended)	: 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.
42.0 Additional information	

#### 13.2. Additional information

External treatment and disposal of waste should comply with applicable local and/or national regulations.

SECTION 14: Transport information	
14.1. UN number or ID number	
In accordance with ADR / RID / IMDG / IATA / ADN UN-No.	: 1956
14.2. UN proper shipping name	
Transport by road/rail (ADR/RID)	: COMPRESSED GAS, N.O.S. (Nitrogen, Carbon monoxide)
Transport by air (ICAO-TI / IATA-DGR)	: Compressed gas, n.o.s. (Nitrogen, Carbon monoxide)
Transport by sea (IMDG)	: COMPRESSED GAS, N.O.S. (Nitrogen, Carbon monoxide)
14.3. Transport hazard class(es)	
Labelling	
	2.2 : Non-flammable, non-toxic gases.
Transport by road/rail (ADR/RID)	
Class 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> <li>Ensure valve protection device (where provided) is correctly fitted.</li> </ul> </li> </ul>
14.7. Maritime transport in bulk according to IMO	<u>instruments</u>
	Not applicable.

#### **SECTION 15: Regulatory information** 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture **EU-Regulations** Restrictions on use : None. Contains no substance on the REACH candidate list. Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament Other information, restriction and prohibition : and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals. regulations Seveso Directive : 2012/18/EU (Seveso III) Not covered. · National regulations Regulatory reference : Ensure all national/local regulations are observed.

# <u>15.2. Chemical safety assessment</u> A CSA does not need to be carried out for this product.

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



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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>IATA - International Maritime Dangerous Goods.</li> <li>RID - Regulations concerning the International Carriage of Dangerous Goods by Road.</li> <li>RID - Regulations concerning the International Carriage of Dangerous Goods by Road.</li> <li>RID - Regulations concerning the International Carriage of Dangerous Goods by Road.</li> <li>RID - Regulations concerning the International Carriage of Dangerous Goods by Road.</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> </ul>
Training advice	<ul> <li>UFI : Unique Formula Identifier.</li> <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</li> </ul>
Further information	<ul> <li>http://www.eiga.eu</li> <li>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.</li> <li>Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP).</li> </ul>

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.

#### End of document