

# 500 ppm Carbonyl sulphide & Hydrogen sulphide in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01159 Issue date: 1/27/2020 Revision date: 1/13/2023 Supersedes version of: 8/25/2022 Version: 3.0

## Warning



I.1. Product identifier		
SDS no	: SDS 01159	
I.2. Relevant identified uses of the sub	stance or mixture and uses advised ag	<u>jainst</u>
Relevant identified uses Jses advised against	: Consumer use.	uses. Perform risk assessment prior to use. d above are not supported, contact your supplier for more
I.3. Details of the supplier of the safety	data sheet	
Nr Liquide UK Ltd. Station Road Coleshill 846 1JY Birmingham Jnited Kingdom afety.aluk@airliquide.com		
I.4. Emergency telephone number		
Emergency telephone number	: 01675 462695 (Available 24	4/7)
SECTION 2: Hazards identificat	ion	
2.1. Classification of the substance or I	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]	

Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP) - Storage

#### 2.3. Other hazards

: H280 - Contains gas under pressure; may explode if heated.

GHS04

: Warning

: P403 - Store in a well-ventilated place.

Asphyxiant in high concentrations. Not classified as PBT or vPvB.



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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	99.9	Press. Gas (Comp.), H280
Carbonyl sulphide	CAS-No.: 463-58-1 EC-No.: 207-340-0 EC Index-No.: REACH-no: *2	0.05	Press. Gas (Liq.), H280 Acute Tox. 3 (Inhalation:gas), H331
Hydrogen sulphide	CAS-No.: 7783-06-4 EC-No.: 231-977-3 EC Index-No.: 016-001-00-4 REACH-no: 01-2119445737-29	0.05	Flam. Gas 1A, H220 Press. Gas (Liq.), H280 Acute Tox. 2 (Inhalation:gas), H330 STOT SE 3, H335 Aquatic Acute 1, H400

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	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 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

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	: Exposure to fire may cause containers to rupture/explode.	
Hazardous combustion products	: None that are more hazardous than the product itself.	
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> </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. 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

#### 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 cleaning up		
	Ventilate area.	

#### 6.4. Reference to other sections

See also sections 8 and 13.



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#### **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> </ul>
Safe handling of the gas receptacle	<ul> <li>Avoid suck back of water, acid and alkalis.</li> <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 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> <li>Suck back of water into the container must be prevented.</li> <li>Open valve slowly to avoid pressure shock.</li> </ul>
7.2. Conditions for safe storage, including any inc	
unit and a set of the set	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.

7.3. Specific end use(s)

None.

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

#### 8.1. Control parameters

#### Hydrogen sulphide (7783-06-4)

#### DNEL: Derived no effect level (Workers)

Acute - local effects, inhalation

14 mg/m<sup>3</sup>

Keep away from combustible materials.



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Acute - systemic effects, inhalation	14 mg/m <sup>3</sup>		
Long-term - local effects, inhalation	7 mg/m³		
Long-term - systemic effects, inhalation	7 mg/m³		
PNEC (Predicted No-Effect Concentration) : None estab	- blished.		
8.2. Exposure controls			
3.2.1. Appropriate engineering controls			
5.2.1. Appropriate engineering controls			
	equate general and local exhaust ventilation.		
Systems ur	nder pressure should be regularily checked for leakages.		
•	osure is below occupational exposure limits (where available).		
	tectors should be used when asphyxiating gases may be released.		
Consider th	e use of a work permit system e.g. for maintenance activities.		
8.2.2. Individual protection measures, e.g. personal protective	equipment		
	ssment should be conducted and documented in each work area to assess the d to the use of the product and to select the PPE that matches the relevant risk.		
	ng recommendations should be considered:		
	iant to the recommended EN/ISO standards should be selected.		
•	: Wear safety glasses with side shields.		
	N 166 - Personal eye-protection - specifications.		
Skin protection	in 100 - Tersonar eye-protection - specifications.		
•	ng gloves when handling gas containers.		
	N 388 - Protective gloves against mechanical risk, performance level 1 or higher		
	y shoes while handling containers.		
	N ISO 20345 - Personal protective equipment - Safety footwear.		
	may be used if all surrounding conditions e.g. type and concentration of the		
	nt(s) and duration of use are known.		
	ers with full face mask, where exposure limits may be exceeded for a short-term		
	connecting or disconnecting containers.		
	N 137 - Self-contained open-circuit compressed air breathing apparatus with full		
face mask.	in 197 - Sen-contained open-circuit compressed an breathing apparatus with fun		
	do not protect against oxygen deficiency.		
	Never use any kind of filtering respiratory protection equipment when working with this substance due to it having poor or no warning properties.		
	ned breathing apparatus (SCBA) or positive pressure airline with mask are to be		
	gen-deficient atmospheres.		
•	N 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks.		
	dition to the above sections.		
3.2.3. Environmental exposure controls			

None necessary.

## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties		
Appearance		
<ul> <li>Physical state at 20°C / 101.3kPa</li> </ul>	: Gas.	
- Colour	: Colourless.	
Odour	: Odour threshold is subjective and inadequate to warn of overexposure.	
	Mixture contains one or more component(s) which have the following odour: Rotten eqgs.	
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	



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Flammability	: Non flammable.
Lower explosion limit	: Not available.
Upper explosion limit	: Not available.
Flash point	: Not applicable for gases and gas mixtures.
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
рН	: Not applicable for gases and gas mixtures.
Viscosity, kinematic	: No reliable data available.
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 : Not applicable for gas mixtures. Wolar mass : Not applicable for gas mixtures. Evaporation rate : Not applicable for gases and 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 : May react violently with
	oxidants. Can form explosive mixture with air.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	None.
10.4. Conditions to avoid	
	Avoid moisture in installation systems.
10.5. Incompatible materials	
	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.



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Carbonyl sulphide (463-58-1)			
LC50 Inhalation - Rat [ppm]		850 ppm/4h	
Hydrogen sulphide (7783-06-4)			
LC50 Inhalation - Rat [ppm]		356 ppm/4h	
Skin corrosion/irritation	:	No known effects from this product.	
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	:	No known effects from this product.	
STOT-single exposure	:	Classification criteria are not met.	
STOT-repeated exposure	:	No known effects from this product.	
Aspiration hazard	:	Not applicable for gases and gas mixtures.	
11.2. Information on other hazards			

No additional information available

SECTION 12: Ecological information	
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.

Carbonyl sulphide (463-58-1)	
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 sulphide (7783-06-4)	
EC50 48h - Daphnia magna [mg/l]	0.12 mg/l
EC50 72h - Algae [mg/l]	1.87 mg/l
LC50 96 h - Fish [mg/l]	0.007 - 0.019 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

Γ

: No data available.



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12.3. Bioaccumulative potential	
Assessment	: No data available.
<u>12.4. Mobility in soil</u>	
Assessment	: Because of its high volatility, the product is unlikely to cause ground or water pollution. Partition into soil is unlikely.
12.5. Results of PBT and vPvB assessment	
Assessment	: Not classified as PBT or vPvB.
12.6. 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	: No known effects from this product.

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)	<ul> <li>May be vented to atmosphere in a well ventilated place.</li> <li>Do not discharge into any place where its accumulation could be dangerous.</li> <li>Return unused product in original container to supplier.</li> <li>16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.</li> </ul>	
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, Hydrogen sulphide)
Transport by air (ICAO-TI / IATA-DGR)	: Compressed gas, n.o.s. (Nitrogen, Hydrogen sulphide)
Transport by sea (IMDG)	: COMPRESSED GAS, N.O.S. (Nitrogen, Hydrogen sulphide)
14.3. Transport hazard class(es)	
Labelling	2.2 : Non-flammable, non-toxic gases.
Transport by road/rail (ADR/RID)	•
Class	: 2
Classification code	: 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



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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.
Transport by sea (IMDG)	
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	: 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 there is adequate ventilation.
	- Ensure that containers are firmly secured.
	- Ensure valve is closed and not leaking.
	- Ensure valve outlet can put or plug (where provided) is correctly fitted

- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
- Ensure valve protection device (where provided) is correctly fitted.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

## **SECTION 15: Regulatory information**

EU-Regulations	
Restrictions on use	: None. Contains no substance on the REACH candidate list.
Other information, restriction and prohibition regulations Seveso Directive : 2012/18/EU (Seveso III)	<ul> <li>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.</li> <li>Not covered.</li> </ul>
National regulations	
Regulatory reference	: Ensure all national/local regulations are observed.
15.2. Chemical safety assessment	
	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 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>IATA - 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>IATA - 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 Rail.</li> <li>WGK - Water Hazard Class.</li> <li>STOT - RE : Specific Target Organ Toxicity - Repeated Exposure.</li> <li>UFI : 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</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. 2 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 2
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Flam. Gas 1A	Flammable gases, Category 1A
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation



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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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