

## 4 Component mix in Carbon dioxide

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Reference number: SDS 01137 Issue date: 11/20/2019 Revision date: 1/13/2023 Supersedes version of: 8/25/2022 Version: 3.0

## Warning



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

#### 1.1. Product identifier

SDS no : SDS 01137

#### 1.2. Relevant identified 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 Consumer use.

Uses other than those listed above are not supported, contact your supplier for more

information on other uses.

## 1.3. Details of the supplier of the safety data sheet

Air Liquide UK Ltd. Station Road Coleshill B46 1JY Birmingham United Kingdom

safety.aluk@airliquide.com

## 1.4. Emergency telephone number

Emergency telephone number : 01675 462695 (Available 24/7)

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Physical hazards H280 Gases under pressure: Liquefied gas

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS04

Signal word (CLP) Warning

Hazard statements (CLP) H280 - Contains gas under pressure; may explode if heated.

: P403 - Store in a well-ventilated place. - Storage

2.3. Other hazards

Precautionary statements (CLP)

Asphyxiant in high concentrations.

Contact with liquid may cause cold burns/frostbite.

In high concentrations CO2 causes rapid circulatory insufficiency even at normal levels of oxygen concentration. Symptoms are headache, nausea and vomiting, which may lead to

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unconsciousness and death. 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]
Carbon dioxide	CAS-No.: 124-38-9 EC-No.: 204-696-9 EC Index-No.: REACH-no: *1	99.9495	Press. Gas (Liq.), H280
Ethylene	CAS-No.: 74-85-1 EC-No.: 200-815-3 EC Index-No.: 601-010-00-3 REACH-no: 01-2119462827-27	0.02	Flam. Gas 1A, H220 Press. Gas (Liq.), H280 STOT SE 3, H336
Ethane	CAS-No.: 74-84-0 EC-No.: 200-814-8 EC Index-No.: 601-002-00-X REACH-no: 01-2119486765-21	0.015	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
Methane	CAS-No.: 74-82-8 EC-No.: 200-812-7 EC Index-No.: 601-001-00-4 REACH-no: 01-2119474442-39	0.015	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
acetaldehyde; ethanal	CAS-No.: 75-07-0 EC-No.: 200-836-8 EC Index-No.: 605-003-00-6	0.0005	Flam. Liq. 1, H224 Carc. 1B, H350 Muta. 2, H341 STOT SE 3, H335 Eye Irrit. 2, H319

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

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

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

- Inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep

victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing

stopped.

- Skin contact : In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain

medical assistance.

- Eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.

- 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.

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

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



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## **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.

#### 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 : 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. If possible, stop flow of product.

Use water spray or fog to knock down fire fumes if possible.

Move containers away from the fire area if this can be done without risk.

Special protective equipment for fire fighters : 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.

Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves

for firefighters.

## **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.

Prevent from entering sewers, basements and workpits, or any place where its

accumulation can be dangerous.

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

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.

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 incompatibilities

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

DNEL (Derived-No Effect Level) : None established.

## Ethylene (74-85-1)

PNEC: Predicted no effect concentration



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Aqua (freshwater)	1.67 mg/l
Aqua (marine water)	1.67 mg/l

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Systems under pressure should be regularily checked for leakages. Ensure exposure is below occupational exposure limits (where available). Oxygen detectors should be used when asphyxiating gases may be released. Consider the use of a work permit system e.g. for maintenance activities.

#### 8.2.2. Individual protection measures, e.g. personal protective equipment

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:

PPE compliant to the recommended EN/ISO standards should be selected.

Eye/face protection
 Wear goggles when transfilling or breaking transfer connections.

Standard EN 166 - Personal eye-protection - specifications.

Skin protection

- Other

- Hand protection : Wear working gloves when handling gas containers.

Standard EN 388 - Protective gloves against mechanical risk, performance level 1 or higher.

Wear cold insulating gloves when transfilling or breaking transfer connections.

Standard EN 511 - Cold insulating gloves.
Wear safety shoes while handling containers.

Standard EN ISO 20345 - Personal protective equipment - Safety footwear.

• Respiratory protection : Gas filters may be used if all surrounding conditions e.g. type and concentration of the

contaminant(s) and duration of use are known.

Use gas filters with full face mask, where exposure limits may be exceeded for a short-term

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

used in oxygen-deficient atmospheres.

Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks .

• Thermal hazards : None in addition 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- Colour: Gas.- Colourles

Odour : Odour threshold is subjective and inadequate to warn of overexposure.

Mixture contains one or more component(s) which have the following odour:

Stenchant often added. Sweetish.

: Not applicable for gas mixtures.

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.

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Component with lowest boiling point: Methane -161.5 °C

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.

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Decomposition temperature : Not applicable.

pH : 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 known.

Component with lowest volatility: Ethane 37.8 bar(a)

Component with highest volatility: Not applicable - component is a compressed gas

Vapour pressure [50°C] : Not available.

Density and/or relative density : Not applicable.

Relative vapour density (air=1) : Heavier than air.

Particle characteristics : Not applicable.

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard 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 gases and gas mixtures.

Other data : Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below

ground level.

## **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

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 : Toxicological effects not expected from this product if occupational exposure limit values are

not exceeded.

Skin corrosion/irritation: No known effects from this product.Serious eye damage/irritation: Classification criteria are not met.

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Respiratory or skin sensitisation

Toxic for reproduction: Fertility

Germ cell mutagenicity

Carcinogenicity

Toxic for reproduction : unborn child STOT-single exposure

STOT-repeated exposure

Aspiration hazard

No known effects from this product.No known effects from this product.

: Classification criteria are not met.

No known effects from this product.

No known effects from this product.Classification criteria are not met.

: No known effects from this product.

: Not applicable for gases and gas mixtures.

## 11.2. Information on other hazards

Other information

 $: \ \, \text{For more information, see 'EIGA Safety Info 24: Carbon Dioxide, Physiological Hazards'} \, \, \text{at} \, \,$ 

www.eiga.eu.

Unlike simple asphyxiants, carbon dioxide has the ability to cause death even when normal oxygen levels (20-21%) are maintained. 5% CO2 has been found to act synergistically to increase the toxicity of certain other gases (CO, NO2). CO2 has been shown to enhance the production of carboxy- or met-hemoglobin by these gases possibly due to carbon

dioxide's stimulatory effects on the respiratory and circulatory systems.

## **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.

acetaldehyde; ethanal (75-07-0)	
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.

Ethane (74-84-0)	
EC50 48h - Daphnia magna [mg/l]	7.02 - 69.43 mg/l
EC50 72h - Algae [mg/l]	7.71 - 16.5 mg/l
LC50 96 h - Fish [mg/l]	24.11 - 147.54 mg/l

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

Ethylene (74-85-1)	
EC50 48h - Daphnia magna [mg/l]	62.4 mg/l
EC50 72h - Algae [mg/l]	30.3 mg/l
LC50 96 h - Fish [mg/l]	126 mg/l



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Carbon dioxide (124-38-9)	
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.

12.4. Mobility in soil

Assessment : No ecological damage caused by this product.

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 : 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.

#### 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

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#### 14.2. UN proper shipping name

Transport by road/rail (ADR/RID) : COMPRESSED GAS, N.O.S. (Carbon dioxide, Ethylene)
Transport by air (ICAO-TI / IATA-DGR) : Compressed gas, n.o.s. (Carbon dioxide, Ethylene)
Transport by sea (IMDG) : LIQUEFIED GAS, N.O.S. (Carbon dioxide, Ethylene)

#### 14.3. Transport hazard class(es)

Labelling

2.2 : Non-flammable, non-toxic gases.

Transport by road/rail (ADR/RID)

Class : 2 Classification code : 2A Hazard identification number : 20

Tunnel Restriction : C/E - Tank carriage : Passage forbidden through tunnels of category C, D and E. Other

carriage: 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.

#### 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 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.



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## **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.

Other information, restriction and prohibition

: 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

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.

Abbreviations and acronyms : ATE - Acute Toxicity Estimate.

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006.

EINECS - European Inventory of Existing Commercial Chemical Substances.

CAS# - Chemical Abstract Service number. PPE - Personal Protection Equipment.

LC50 - Lethal Concentration to 50 % of a test population.

RMM - Risk Management Measures.

PBT - Persistent, Bioaccumulative and Toxic. vPvB - Very Persistent and Very Bioaccumulative.

STOT- SE: Specific Target Organ Toxicity - Single Exposure.

CSA - Chemical Safety Assessment.

EN - European Standard. UN - United Nations.

ADR - European Agreement concerning the International Carriage of Dangerous Goods by

Road.

IATA - International Air Transport Association.

IMDG code - International Maritime Dangerous Goods.

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.

WGK - Water Hazard Class.

STOT - RE: Specific Target Organ Toxicity - Repeated Exposure.

UFI: Unique Formula Identifier.

Training advice : The hazard of asphyxiation is often overlooked and must be stressed during operator

training.

For more guidance, refer to EIGA SL 01 "Dangers of Asphyxiation", downloadable at

http://www.eiga.eu..

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	
Carc. 1B	Carcinogenicity, Category 1B
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2



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Flam. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 1	Flammable liquids, Category 1
H220	Extremely flammable gas.
H224	Extremely flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
Muta. 2	Germ cell mutagenicity, Category 2
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

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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