

# Safety Data Sheet

## 30% Carbon dioxide in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Issue date: 10/3/2019 Revision date: 1/30/2025 Supersedes version of: 8/25/2022 Version: 4.0

### Warning



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

### 1.1. Product identifier

SDS no : SDS 00197

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Industrial and professional use for chemical analysis, calibration, (routine) quality control, laboratory use, under controlled conditions.

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

Energas Ltd.  
Westmorland Street  
HU2 0HX Hull  
T 0044 1482 329333  
[safety.aluk@airliquide.com](mailto: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 Gases under pressure : Compressed gas H280

### 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.

Precautionary statements (CLP) : P403 - Store in a well-ventilated place.

- Storage

### 2.3. Other hazards

Asphyxiant in high concentrations.

In high concentrations CO<sub>2</sub> causes rapid circulatory insufficiency even at normal levels of oxygen concentration. Symptoms are headache, nausea and vomiting, which may lead to unconsciousness and death.

Not classified as PBT or vPvB.

The substance/mixture has no endocrine disrupting properties.

# Safety Data Sheet

## 30% Carbon dioxide in Nitrogen

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

### 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]<br>ATE, EUH-statements, M-Factors |
|----------------|------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------|
| Nitrogen       | CAS-No.: 7727-37-9<br>EC-No.: 231-783-9<br>EC Index-No.: ---<br>REACH-no: *1 | 70 | Press. Gas (Comp.), H280                                                                          |
| Carbon dioxide | CAS-No.: 124-38-9<br>EC-No.: 204-696-9<br>EC Index-No.: ---<br>REACH-no: *1  | 30 | Press. Gas (Liq.), 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 &lt; 1t/y.

### 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 : 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.

#### 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.

# Safety Data Sheet

## 30% Carbon dioxide in Nitrogen

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

### **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. EN 15090 Footwear for firefighters. EN 443 Helmets for fire fighting in buildings and other structures.

## **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.

## **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 regularly) 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.

# Safety Data Sheet

## 30% Carbon dioxide in Nitrogen

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

### 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

| Carbon dioxide (124-38-9)                          |                                                                                                                                                                    |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) |                                                                                                                                                                    |
| Local name                                         | Carbon dioxide                                                                                                                                                     |
| IOEL TWA                                           | 9000 mg/m <sup>3</sup>                                                                                                                                             |
|                                                    | 5000 ppm                                                                                                                                                           |
| Regulatory reference                               | COMMISSION DIRECTIVE 2006/15/EC                                                                                                                                    |
| Albania - Occupational Exposure Limits             |                                                                                                                                                                    |
| Local name                                         | Dioksid karboni                                                                                                                                                    |
| OEL TWA                                            | 9000 mg/m <sup>3</sup>                                                                                                                                             |
|                                                    | 5000 ppm                                                                                                                                                           |
| Regulatory reference                               | VENDIM Nr. 522, datë 6.8.2014 PËR MIRATIMIN E RREGULLORES "PËR MBROJTJEN E SIGURISË DHE SHËNDETIT TË PUNËMARRËSVE NGA RISQET E LIDHURA ME AGJENTËT KIMIKË NË PUNË" |

# Safety Data Sheet

## 30% Carbon dioxide in Nitrogen

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

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Austria - Occupational Exposure Limits</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                     | Kohlenstoffdioxid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| MAK (mg/m <sup>3</sup> )                       | 9000 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MAK (OEL TWA)                                  | 5000 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| MAK (OEL STEL)                                 | 18000 mg/m <sup>3</sup> (3x 60(Mow) min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                | 10000 ppm (3x 60(Mow) min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Regulatory reference                           | BGBI. II Nr. 156/2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Belgium - Occupational Exposure Limits</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                     | Carbone (dioxyde de) # Koolstofdioxide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| OEL TWA                                        | 9131 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                | 5000 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| OEL STEL                                       | 54784 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                | 30000 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Remark                                         | A: la mention "A" signifie que l'agent libère un gaz ou une vapeur qui n'ont en eux-mêmes aucun effet physiologique mais peuvent diminuer le taux d'oxygène dans l'air. Lorsque le taux d'oxygène descend en dessous de 17-18 % (vol/vol) le manque d'oxygène provoque des suffocations qu'aucun symptôme préalable n'annonce. # A: de vermelding "A" betekent dat dit agens gas of damp vrijgeeft dat of die op zich geen fysiologische werking heeft, maar het zuurstofgehalte in de lucht verlaagt. Wanneer het zuurstofgehalte daalt onder de 17-18 % (vol/vol), veroorzaakt het zuurstoftekort verstikking, die zich manifesteert zonder dat er een waarschuwing aan voorafgaat. |
| Regulatory reference                           | Koninklijk besluit/Arrêté royal 16/11/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Bulgaria - Occupational Exposure Limits</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                     | Въглероден диоксид                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| OEL TWA                                        | 9000 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                | 5000 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Remark                                         | • (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Regulatory reference                           | Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Croatia - Occupational Exposure Limits</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                     | Ugljikov dioksid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| GVI (OEL TWA)                                  | 9000 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                | 5000 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Remark                                         | Direktiva: 2006/15/EZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Regulatory reference                           | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 148/2023)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Cyprus - Occupational Exposure Limits</b>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                     | Διοξείδιο του άνθρακα                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |



an Air Liquide company

## Safety Data Sheet

### 30% Carbon dioxide in Nitrogen

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

|                                                          |                                                                                                                             |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| OEL TWA                                                  | 9000 mg/m <sup>3</sup>                                                                                                      |
|                                                          | 5000 ppm                                                                                                                    |
| Regulatory reference                                     | Κανονισμοί του 2007 (Κ.Δ.Π. 295/2007)                                                                                       |
| <b>Czech Republic - Occupational Exposure Limits</b>     |                                                                                                                             |
| Local name                                               | Oxid uhličitý                                                                                                               |
| PEL (OEL TWA)                                            | 9000 mg/m <sup>3</sup>                                                                                                      |
|                                                          | 4921 ppm                                                                                                                    |
| NPK-P (OEL C)                                            | 45000 mg/m <sup>3</sup>                                                                                                     |
|                                                          | 24603 ppm                                                                                                                   |
| Regulatory reference                                     | Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.)                                                                       |
| <b>Denmark - Occupational Exposure Limits</b>            |                                                                                                                             |
| Local name                                               | Carbondioxid (Kuldioxid; Kultsyre)                                                                                          |
| OEL TWA                                                  | 9000 mg/m <sup>3</sup>                                                                                                      |
|                                                          | 5000 ppm                                                                                                                    |
| Remark                                                   | E (betyder, at stoffet har en EF-grænseværdi)                                                                               |
| Regulatory reference                                     | BEK nr 202 af 21/02/2023                                                                                                    |
| <b>Estonia - Occupational Exposure Limits</b>            |                                                                                                                             |
| Local name                                               | Süsinikdioksiid                                                                                                             |
| OEL TWA                                                  | 9000 mg/m <sup>3</sup>                                                                                                      |
|                                                          | 5000 ppm                                                                                                                    |
| Remark                                                   | 8 (Süsinikdioksiid on õhu saastatuse indikaatoriks töökohtadel, kus õhk saastub töötajate suure füüsilise aktiivsuse tõttu) |
| Regulatory reference                                     | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 21.12.2022, 3)                                                 |
| <b>Finland - Occupational Exposure Limits</b>            |                                                                                                                             |
| Local name                                               | Hilidiokside                                                                                                                |
| HTP (OEL TWA)                                            | 9100 mg/m <sup>3</sup>                                                                                                      |
|                                                          | 5000 ppm                                                                                                                    |
| Regulatory reference                                     | HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)                                                                             |
| <b>France - Occupational Exposure Limits</b>             |                                                                                                                             |
| Local name                                               | Carbone (dioxyde de) (Dioxyde de carbone)                                                                                   |
| VME (OEL TWA)                                            | 9000 mg/m <sup>3</sup>                                                                                                      |
|                                                          | 5000 ppm                                                                                                                    |
| Remark                                                   | Valeurs réglementaires indicatives                                                                                          |
| Regulatory reference                                     | Arrêté du 30 juin 2004 modifié (réf.: INRS ED 6443, 2022; Outil65; Arrêté du 26 octobre 2007)                               |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |                                                                                                                             |
| Local name                                               | Kohlenstoffdioxid                                                                                                           |
| AGW (OEL TWA)                                            | 9100 mg/m <sup>3</sup>                                                                                                      |



an Air Liquide company

## Safety Data Sheet

### 30% Carbon dioxide in Nitrogen

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

|                                                 |                                                                                                                                                                                                                                    |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                 | 5000 ppm                                                                                                                                                                                                                           |
| Peak exposure limitation factor                 | 2(II)                                                                                                                                                                                                                              |
| Remark                                          | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich) |
| Regulatory reference                            | TRGS900                                                                                                                                                                                                                            |
| <b>Gibraltar - Occupational Exposure Limits</b> |                                                                                                                                                                                                                                    |
| Local name                                      | Carbon dioxide                                                                                                                                                                                                                     |
| OEL TWA                                         | 9000 mg/m <sup>3</sup>                                                                                                                                                                                                             |
|                                                 | 5000 ppm                                                                                                                                                                                                                           |
| Regulatory reference                            | Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)                                                                                                                                                     |
| <b>Greece - Occupational Exposure Limits</b>    |                                                                                                                                                                                                                                    |
| Local name                                      | Διοξείδιο του άνθρακα                                                                                                                                                                                                              |
| OEL TWA                                         | 9000 mg/m <sup>3</sup>                                                                                                                                                                                                             |
|                                                 | 5000 ppm                                                                                                                                                                                                                           |
| OEL STEL                                        | 54000 mg/m <sup>3</sup>                                                                                                                                                                                                            |
| Regulatory reference                            | Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους                                                                                            |
| <b>Hungary - Occupational Exposure Limits</b>   |                                                                                                                                                                                                                                    |
| Local name                                      | SZÉN-DIOXID                                                                                                                                                                                                                        |
| AK (OEL TWA)                                    | 9000 mg/m <sup>3</sup>                                                                                                                                                                                                             |
| Remark                                          | EU2 (2006/15/EK irányelvben közölt érték); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)                                                                                               |
| Regulatory reference                            | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről                                                                                                   |
| <b>Ireland - Occupational Exposure Limits</b>   |                                                                                                                                                                                                                                    |
| Local name                                      | Carbon dioxide                                                                                                                                                                                                                     |
| OEL TWA                                         | 9000 mg/m <sup>3</sup>                                                                                                                                                                                                             |
|                                                 | 5000 ppm                                                                                                                                                                                                                           |
| Remark                                          | IOELV (Indicative Occupational Exposure Limit Values)                                                                                                                                                                              |
| Regulatory reference                            | Chemical Agents Code of Practice 2021                                                                                                                                                                                              |
| <b>Italy - Occupational Exposure Limits</b>     |                                                                                                                                                                                                                                    |
| Local name                                      | Anidride carbonica                                                                                                                                                                                                                 |
| OEL TWA                                         | 9000 mg/m <sup>3</sup>                                                                                                                                                                                                             |
|                                                 | 5000 ppm                                                                                                                                                                                                                           |
| Regulatory reference                            | Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.                                                                                                                                                                          |
| <b>Latvia - Occupational Exposure Limits</b>    |                                                                                                                                                                                                                                    |
| Local name                                      | Oglekļa dioksīds                                                                                                                                                                                                                   |



an Air Liquide company

## Safety Data Sheet

### 30% Carbon dioxide in Nitrogen

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

|                                                                 |                                                                                                                                                                     |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OEL TWA                                                         | 9000 mg/m <sup>3</sup>                                                                                                                                              |
|                                                                 | 5000 ppm                                                                                                                                                            |
| Regulatory reference                                            | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)                                  |
| <b>Lithuania - Occupational Exposure Limits</b>                 |                                                                                                                                                                     |
| Local name                                                      | Anglies dioksidas                                                                                                                                                   |
| IPRV (OEL TWA)                                                  | 9000 mg/m <sup>3</sup>                                                                                                                                              |
|                                                                 | 5000 ppm                                                                                                                                                            |
| Remark                                                          | Anglies dioksidas dažnai laikomas kaip indikatorius darbo patalpose, kuriose oro teršalai susidaro dėl žmonių buvimo jose.                                          |
| Regulatory reference                                            | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)                                                                                                   |
| <b>Luxembourg - Occupational Exposure Limits</b>                |                                                                                                                                                                     |
| Local name                                                      | Dioxyde de carbone                                                                                                                                                  |
| OEL TWA                                                         | 9000 mg/m <sup>3</sup>                                                                                                                                              |
|                                                                 | 5000 ppm                                                                                                                                                            |
| Regulatory reference                                            | Mémorial A N° 226 de 2021 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail |
| <b>Malta - Occupational Exposure Limits</b>                     |                                                                                                                                                                     |
| Local name                                                      | Carbon dioxide                                                                                                                                                      |
| OEL TWA                                                         | 9000 mg/m <sup>3</sup>                                                                                                                                              |
|                                                                 | 5000 ppm                                                                                                                                                            |
| Regulatory reference                                            | S.L.424.24 - Chemical Agents at Work Regulations (L.N.356 of 2021)                                                                                                  |
| <b>Netherlands - Occupational Exposure Limits</b>               |                                                                                                                                                                     |
| Local name                                                      | Kooldioxide                                                                                                                                                         |
| TGG-8u (OEL TWA)                                                | 9000 mg/m <sup>3</sup>                                                                                                                                              |
|                                                                 | 5000 ppm                                                                                                                                                            |
| Regulatory reference                                            | Arbeidsomstandighedenregeling 2024                                                                                                                                  |
| <b>Poland - Occupational Exposure Limits</b>                    |                                                                                                                                                                     |
| Local name                                                      | Ditlenek węgla                                                                                                                                                      |
| NDS (OEL TWA)                                                   | 9000 mg/m <sup>3</sup>                                                                                                                                              |
| NDSch (OEL STEL)                                                | 27000 mg/m <sup>3</sup>                                                                                                                                             |
| Regulatory reference                                            | Dz. U. 2018 poz. 1286 wraz z późn. zm.                                                                                                                              |
| <b>Portugal - Indicative Occupational Exposure Limit (IOEL)</b> |                                                                                                                                                                     |
| Local name                                                      | Dióxido de carbono                                                                                                                                                  |
| IOEL TWA                                                        | 9000 mg/m <sup>3</sup>                                                                                                                                              |
|                                                                 | 5000 ppm                                                                                                                                                            |
| Regulatory reference                                            | Decreto-Lei n.º 1/2021 de 6 de janeiro                                                                                                                              |



an Air Liquide company

## Safety Data Sheet

### 30% Carbon dioxide in Nitrogen

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

|                                                |                                                                                                                                                           |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Portugal - Occupational Exposure Limits</b> |                                                                                                                                                           |
| Local name                                     | Dióxido de carbono                                                                                                                                        |
| OEL TWA                                        | 5000 ppm                                                                                                                                                  |
| OEL STEL                                       | 30000 ppm                                                                                                                                                 |
| Regulatory reference                           | Norma Portuguesa NP 1796:2014                                                                                                                             |
| <b>Romania - Occupational Exposure Limits</b>  |                                                                                                                                                           |
| Local name                                     | Dioxid de carbon                                                                                                                                          |
| OEL TWA                                        | 9000 mg/m <sup>3</sup>                                                                                                                                    |
|                                                | 5000 ppm                                                                                                                                                  |
| Regulatory reference                           | Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)                                                                                               |
| <b>Serbia - Occupational Exposure Limits</b>   |                                                                                                                                                           |
| Local name                                     | угљен-диоксид                                                                                                                                             |
| OEL TWA                                        | 9000 mg/m <sup>3</sup>                                                                                                                                    |
|                                                | 5000 ppm                                                                                                                                                  |
| Remark                                         | ЕУ** – напомена да се ради о хемијским материјама за које су утврђене индикативне граничне вредности изложености према Директиви 2006/15/ЕЗ (друга листа) |
| Regulatory reference                           | ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама („Службени гласник РС”, бр. 106/09, 117/17 и 107/21)            |
| <b>Slovakia - Occupational Exposure Limits</b> |                                                                                                                                                           |
| Local name                                     | Oxid uhličitý                                                                                                                                             |
| NPHV (OEL TWA)                                 | 9000 mg/m <sup>3</sup>                                                                                                                                    |
|                                                | 5000 ppm                                                                                                                                                  |
| Regulatory reference                           | Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)                                                                                                       |
| <b>Slovenia - Occupational Exposure Limits</b> |                                                                                                                                                           |
| Local name                                     | ogljikov dioksid                                                                                                                                          |
| OEL TWA                                        | 9000 mg/m <sup>3</sup>                                                                                                                                    |
|                                                | 5000 ppm                                                                                                                                                  |
| OEL STEL                                       | 18000 mg/m <sup>3</sup>                                                                                                                                   |
|                                                | 10000 ppm                                                                                                                                                 |
| Remark                                         | EU                                                                                                                                                        |
| Regulatory reference                           | Uradni list RS, št. 72/2021 z dne 11.5.2021                                                                                                               |
| <b>Spain - Occupational Exposure Limits</b>    |                                                                                                                                                           |
| Local name                                     | Dióxido de carbono                                                                                                                                        |
| VLA-ED (OEL TWA)                               | 9150 mg/m <sup>3</sup>                                                                                                                                    |
|                                                | 5000 ppm                                                                                                                                                  |
| Remark                                         | VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).                                                                 |



an Air Liquide company

## Safety Data Sheet

### 30% Carbon dioxide in Nitrogen

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

|                                                       |                                                                                                                                                                                                                                                             |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regulatory reference                                  | Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT                                                                                                                                                                               |
| <b>Sweden - Occupational Exposure Limits</b>          |                                                                                                                                                                                                                                                             |
| Local name                                            | Koldioxid                                                                                                                                                                                                                                                   |
| NGV (OEL TWA)                                         | 9000 mg/m <sup>3</sup>                                                                                                                                                                                                                                      |
|                                                       | 5000 ppm                                                                                                                                                                                                                                                    |
| KGV (OEL STEL)                                        | 18000 mg/m <sup>3</sup>                                                                                                                                                                                                                                     |
|                                                       | 10000 ppm                                                                                                                                                                                                                                                   |
| Remark                                                | V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas); 34 (Koldioxid används ofta som indikatorsubstans i arbetslokaler där luftföroreningar huvudsakligen uppkommer genom de personer som vistas där) |
| Regulatory reference                                  | Hygieniska gränsvärden (AFS 2018:1)                                                                                                                                                                                                                         |
| <b>United Kingdom - Occupational Exposure Limits</b>  |                                                                                                                                                                                                                                                             |
| Local name                                            | Carbon dioxide                                                                                                                                                                                                                                              |
| WEL TWA (OEL TWA)                                     | 9150 mg/m <sup>3</sup>                                                                                                                                                                                                                                      |
|                                                       | 5000 ppm                                                                                                                                                                                                                                                    |
| WEL STEL (OEL STEL)                                   | 27400 mg/m <sup>3</sup>                                                                                                                                                                                                                                     |
|                                                       | 15000 ppm                                                                                                                                                                                                                                                   |
| Regulatory reference                                  | EH40/2005 (Fourth edition, 2020). HSE                                                                                                                                                                                                                       |
| <b>Iceland - Occupational Exposure Limits</b>         |                                                                                                                                                                                                                                                             |
| Local name                                            | Koldíoxíð (koltvísýringur, kolsýra)                                                                                                                                                                                                                         |
| OEL TWA                                               | 9000 mg/m <sup>3</sup>                                                                                                                                                                                                                                      |
|                                                       | 5000 ppm                                                                                                                                                                                                                                                    |
| Regulatory reference                                  | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)                                                                                                                                                                   |
| <b>Norway - Occupational Exposure Limits</b>          |                                                                                                                                                                                                                                                             |
| Local name                                            | Karbondioksid                                                                                                                                                                                                                                               |
| Grenseverdi (OEL TWA)                                 | 9000 mg/m <sup>3</sup>                                                                                                                                                                                                                                      |
|                                                       | 5000 ppm                                                                                                                                                                                                                                                    |
| Remark                                                | E: EU har en veiledende grenseverdi og/eller anmerkning for stoffet.                                                                                                                                                                                        |
| Regulatory reference                                  | FOR-2023-12-18-2278                                                                                                                                                                                                                                         |
| <b>North Macedonia - Occupational Exposure Limits</b> |                                                                                                                                                                                                                                                             |
| Local name                                            | Јаглерод диоксид                                                                                                                                                                                                                                            |
| OEL TWA                                               | 9000 mg/m <sup>3</sup>                                                                                                                                                                                                                                      |
|                                                       | 5000 ppm                                                                                                                                                                                                                                                    |
| Remark                                                | (EU) European Union – гранична вредност, определена на ниво на Европската унија                                                                                                                                                                             |
| Regulatory reference                                  | Правилник за минималните барања за безбедност и здравје при работа на вработени од ризици поврзани со изложување на хемиски супстанции („Службен весник на Република Македонија“ бр.46/10)                                                                  |



an Air Liquide company

# Safety Data Sheet

## 30% Carbon dioxide in Nitrogen

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

| Switzerland - Occupational Exposure Limits |                                                   |
|--------------------------------------------|---------------------------------------------------|
| Local name                                 | Gaz carbonique / Kohlendioxid [Kohlenstoffdioxid] |
| MAK (OEL TWA)                              | 9000 mg/m <sup>3</sup>                            |
|                                            | 5000 ppm                                          |
| Remark                                     | NIOSH                                             |
| Regulatory reference                       | www.suva.ch, 01.01.2024                           |

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

PNEC (Predicted No-Effect Concentration) : None available.

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation.  
Systems under pressure should be regularly 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:

- Eye/face protection : Wear safety glasses with side shields.  
Standard EN 166 - Personal eye-protection - specifications.
- Skin protection : Wear working gloves when handling gas containers.  
Standard EN 388 - Protective gloves against mechanical risks, performance level 1 or higher. Recommended types include wrist gloves from leather or synthetic material with equivalent performance, fabric gloves, fabric gloves with leather palms.  
- Hand protection : Wear safety shoes while handling containers.  
Standard EN ISO 20345 - Personal protective equipment - Safety footwear.  
- Other : Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.  
Consult respiratory device supplier's product information for the selection of the appropriate device.  
When indicated by a risk assessment, Respiratory Protective Equipment must be used. The selection of the Respiratory Protective Device (RPD) must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected RPD.  
Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.
- Respiratory protection : None in addition to the above sections.
- Thermal hazards

#### 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.

# Safety Data Sheet

## 30% Carbon dioxide in Nitrogen

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

|                                                 |                                                                                                                                                                                        |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Boiling point                                   | : Not applicable for gas mixtures.<br>It is technically not possible to determine the boiling point or range of this mixture.<br>Component with lowest boiling point: Nitrogen -196 °C |
| Flammability                                    | : Non flammable.                                                                                                                                                                       |
| Lower explosion limit                           | : Not applicable.                                                                                                                                                                      |
| Upper explosion limit                           | : Not applicable.                                                                                                                                                                      |
| Flash point                                     | : Not applicable for gases and gas mixtures.                                                                                                                                           |
| Auto-ignition temperature                       | : Non flammable.                                                                                                                                                                       |
| Decomposition temperature                       | : Not applicable.                                                                                                                                                                      |
| pH                                              | : Not applicable for gases and gas mixtures.                                                                                                                                           |
| Viscosity, kinematic                            | : No reliable data available.                                                                                                                                                          |
| Water solubility [20°C]                         | : No reliable data available.                                                                                                                                                          |
| 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 for gases and gas mixtures.                                                                                                                                           |
| Relative vapour density (air=1)                 | : Heavier than air.                                                                                                                                                                    |
| Particle characteristics                        | : Not applicable for gases and gas mixtures.<br>Nanoforms are not relevant for gases and gas mixtures.                                                                                 |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

|                         |                            |
|-------------------------|----------------------------|
| Flammability Properties | : Non flammable.           |
| Oxidising properties    | : No oxidising properties. |

#### 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

Data for mixtures are not available.  
None.

### 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. |
|----------------|----------------------------------------------------------------------------------------------------------------|

# Safety Data Sheet

## 30% Carbon dioxide in Nitrogen

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

|                                              |                                              |
|----------------------------------------------|----------------------------------------------|
| <b>Skin corrosion/irritation</b>             | : No known effects from this product.        |
| <b>Serious eye damage/irritation</b>         | : No known effects from this product.        |
| <b>Respiratory or skin sensitisation</b>     | : No known effects from this product.        |
| <b>Germ cell mutagenicity</b>                | : No known effects from this product.        |
| <b>Carcinogenicity</b>                       | : No known effects from this product.        |
| <b>Toxic for reproduction : Fertility</b>    | : No known effects from this product.        |
| <b>Toxic for reproduction : unborn child</b> | : No known effects from this product.        |
| <b>STOT-single exposure</b>                  | : No known effects from this product.        |
| <b>STOT-repeated exposure</b>                | : No known effects from this product.        |
| <b>Aspiration hazard</b>                     | : Not applicable for gases and gas mixtures. |

### 11.2. Information on other hazards

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other information | : For more information, see 'EIGA Safety Info 24: Carbon Dioxide, Physiological Hazards' at <a href="http://www.eiga.eu">www.eiga.eu</a> .<br>Unlike simple asphyxiants, carbon dioxide has the ability to cause death even when normal oxygen levels (20-21%) are maintained. 5% CO <sub>2</sub> has been found to act synergistically to increase the toxicity of certain other gases (CO, NO <sub>2</sub> ). CO <sub>2</sub> 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.<br>The substance/mixture has no endocrine disrupting properties. |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 12: Ecological information

### 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 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. |

### 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 ecological damage caused by this product. |
|------------|------------------------------------------------|

### 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 | : The substance/mixture has no endocrine disrupting properties. |
|------------|-----------------------------------------------------------------|

# Safety Data Sheet

## 30% Carbon dioxide in Nitrogen

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

### 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 |

### 14.2. UN proper shipping name

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

### 14.3. Transport hazard class(es)

#### Labelling



2.2 : Non-flammable, non-toxic gases.

#### Transport by road/rail/inland waterways (ADR/RID/ADN)

|                              |                                                       |
|------------------------------|-------------------------------------------------------|
| 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 |
|-----------------------------|-------|

#### 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/inland waterways (ADR/RID/ADN) | : 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/inland waterways (ADR/RID/ADN) | : None. |
|-------------------------------------------------------|---------|



an Air Liquide company

## Safety Data Sheet

### 30% Carbon dioxide in Nitrogen

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

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/inland waterways (ADR/RID/ADN) : 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.

## **SECTION 15: Regulatory information**

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

##### **EU-Regulations**

Restrictions on use : Contains no substance(s) listed on the REACH Candidate List.  
Other information, restriction and prohibition regulations : Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals).  
Seveso Directive : 2012/18/EU (Seveso III) : Not covered.

##### **National regulations**

Water hazard class (WGK) : nwg - Non-hazardous to water.  
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.



an Air Liquide company

# Safety Data Sheet

## 30% Carbon dioxide in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 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 - 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 |                                                     |
|------------------------------------|-----------------------------------------------------|
| Press. Gas (Comp.)                 | Gases under pressure : Compressed gas               |
| Press. Gas (Liq.)                  | Gases under pressure : Liquefied gas                |
| H280                               | Contains gas under pressure; may explode if heated. |

### 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**