



## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

### Carbon dioxide, solid (Dry ice)

Issue Date: 10.09.2014  
Last revised date: 01.03.2023

Version: 2.2

SDS No.: 000010022548  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name:** Carbon dioxide, solid (Dry ice)

**Trade name:** Gasart 373 Trockeneis Block, Block geschnitten, Scheiben, Gasart 377 Trockeneis Pellets, Gasart 378 Trockeneis Nuggets

#### Additional identification

**Chemical name:** Carbon dioxide

**Chemical formula:** CO<sub>2</sub>

**INDEX No.** -

**CAS-No.** 124-38-9

**EC No.** 204-696-9

**REACH Registration No.** Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration.

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

**Identified uses:** Industrial and professional. Perform risk assessment prior to use.  
Blast cleaning. Cooling applications. Food freezing. Freezing, Cooling and heat transfer. Laboratory use. Special effects (entertainment).  
Consumer use.

It is the responsibility of the end user to ensure that the product as supplied is suitable for its intended use.

**Uses advised against** Industrial or technical grade is unsuitable for medical and/or food applications or inhalation.

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

#### Supplier

Linde Gas GmbH  
Carl-von-Linde-Platz 1  
A-4651 Stadl-Paura

**Telephone:** +43 50 4273

**E-mail:** office@at.linde-gas.com

**1.4 Emergency telephone number:** Emergency number UMCÖ: +49 89 220 61012 (German), +44 1865 407333 (English)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended.



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Not classified

2.2 Label Elements Not applicable

#### Precautionary Statements

General None.

Prevention: None.

Response: None.

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

Disposal None.

#### Supplemental information

EIGA-As: Asphyxiant in high concentrations.

#### 2.3 Other hazards

Refrigerated solidified gas, exists at -78,5 °C. Contact with product may cause severe cold burns or frostbite. Asphyxiant in high concentrations.



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## SECTION 3: Composition/information on ingredients

## 3.1 Substances

**Chemical name** Carbon dioxide  
**INDEX No.:** -  
**CAS-No.:** 124-38-9  
**EC No.:** 204-696-9  
**REACH Registration No.:** Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration.  
**Purity:** 100%  
The purity of the substance in this section is used for classification only, and does not represent the actual purity of the substance as supplied, for which other documentation should be consulted.  
**Trade name:** Gasart 373 Trockeneis Block, Block geschnitten, Scheiben, Gasart 377 Trockeneis Pellets, Gasart 378 Trockeneis Nuggets

| Chemical name  | Chemical formula | Concentration | CAS-No.  | REACH Registration No.                                                                    | M-Factor: | Notes |
|----------------|------------------|---------------|----------|-------------------------------------------------------------------------------------------|-----------|-------|
| Carbon dioxide | CO <sub>2</sub>  | 100%          | 124-38-9 | Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration. | -         | #     |

The concentrations of the components in the SDS header, product name on page one and in section 3.2 are in mol due to regulatory requirements. All concentrations are nominal.

# This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



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#### SECTION 4: First aid measures

**General:** In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

##### 4.1 Description of first aid measures

**Inhalation:** Low concentrations of CO<sub>2</sub> cause increased respiration and headache. In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

**Eye contact:** In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Get medical attention immediately.

**Skin Contact:** In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Get medical attention.

**Ingestion:** Swallowing must be absolutely avoided, since coldness and developing pressure could be dangerous. Obtain medical attention and take along these instructions.

**4.2 Most important symptoms and effects, both acute and delayed:** Respiratory arrest.

##### 4.3 Indication of any immediate medical attention and special treatment needed

**Hazards:** Respiratory arrest.

**Treatment:** Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.

#### SECTION 5: Firefighting measures

**General Fire Hazards:** No specific recommendations.

##### 5.1 Extinguishing media

**Suitable extinguishing media:** Material will not burn. In case of fire in the surroundings: use appropriate extinguishing agent.

**Unsuitable extinguishing media:** None.



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5.2 Special hazards arising from the substance or mixture: None.

#### 5.3 Advice for firefighters

Special fire fighting procedures: No unusual fire or explosion hazards noted.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Guideline: EN 469 Protective clothing for firefighters. Performance requirements for protective clothing for firefighting. EN 15090 Footwear for firefighters. EN 659 Protective gloves for firefighters. EN 443 Helmets for fire fighting in buildings and other structures. EN 137 Respiratory protective devices - Self-contained open-circuit compressed air breathing apparatus with full face mask - Requirements, testing, marking.

## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Evacuate area. Provide adequate ventilation. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. EN 137 Respiratory protective devices - Self-contained open-circuit compressed air breathing apparatus with full face mask - Requirements, testing, marking.

6.2 Environmental Precautions: Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up: Provide adequate ventilation.

6.4 Reference to other sections: Refer to sections 8 and 13.

## SECTION 7: Handling and storage:

7.1 Precautions for safe handling: Do not use in confined spaces without adequate ventilation and/or respirator. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Refer to supplier's handling instructions. The substance must be handled in accordance with good industrial hygiene and safety procedures. Protect containers from physical damage; do not drag, roll, slide or drop. Do not remove or deface labels provided by the supplier for the identification of the container contents. When moving containers, even for short distances, use appropriate equipment eg. trolley, hand truck, fork truck etc. Provide adequate ventilation. When using do not eat, drink or smoke.



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**7.2 Conditions for safe storage, including any incompatibilities:** Keep container below 50°C in a well ventilated place. Observe all regulations and local requirements regarding storage of containers.

**7.3 Specific end use(s):** None.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

#### Occupational Exposure Limits

| Chemical name  | Type     | Exposure Limit Values                  | Source                                                                                                                                |
|----------------|----------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Carbon dioxide | MAK      | 5.000 ppm<br>9.000 mg/m <sup>3</sup>   | Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended (04 2021)                                                  |
|                | MAK CEIL | 10.000 ppm<br>18.000 mg/m <sup>3</sup> | Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended (04 2021)                                                  |
|                | TWA      | 5.000 ppm<br>9.000 mg/m <sup>3</sup>   | EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (12 2009) |
|                | TWA      | 5.000 ppm<br>9.000 mg/m <sup>3</sup>   | EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (12 2009) |

### 8.2 Exposure controls

#### Appropriate engineering controls:

Consider a work permit system e.g. for maintenance activities. Ensure adequate air ventilation. Oxygen detectors should be used when asphyxiating gases may be released. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Systems under pressure should be regularly checked for leakages. Preferably use permanent leak tight connections (eg. welded pipes). Do not eat, drink or smoke when using the product. CO<sub>2</sub> detectors should be used when CO<sub>2</sub> may be released.



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#### Individual protection measures, such as personal protective equipment

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information:</b>             | 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. Keep self contained breathing apparatus readily available for emergency use. Personal protective equipment for the body should be selected based on the task being performed and the risks involved. |
| <b>Eye/face protection:</b>             | Safety eyewear, goggles or face-shield to EN166 should be used to avoid exposure to liquid splashes. Wear eye protection to EN 166 when using gases. Guideline: EN 166 Personal Eye Protection.                                                                                                                                                                                                                                             |
| <b>Skin protection</b>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Hand Protection:</b>                 | Guideline: EN 511 Protective gloves against cold.<br>Additional Information: Wear cold insulating gloves.                                                                                                                                                                                                                                                                                                                                   |
| <b>Body protection:</b>                 | Wear apron or protective clothing in case of contact.                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Other:</b>                           | Wear safety shoes while handling containers<br>Guideline: ISO 20345 Personal protective equipment - Safety footwear.                                                                                                                                                                                                                                                                                                                        |
| <b>Respiratory Protection:</b>          | When allowed by a risk assessment Respiratory Protective Equipment (RPE) may 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 (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres                            |
| <b>Thermal hazards:</b>                 | Not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Hygiene measures:</b>                | Specific risk management measures are not required beyond good industrial hygiene and safety procedures. Do not eat, drink or smoke when using the product.                                                                                                                                                                                                                                                                                 |
| <b>Environmental exposure controls:</b> | For waste disposal, see section 13 of the SDS.                                                                                                                                                                                                                                                                                                                                                                                              |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|                        |           |
|------------------------|-----------|
| <b>Physical state:</b> | solid     |
| <b>Form:</b>           | solid     |
| <b>Color:</b>          | Colorless |

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|                                          |                                                                          |
|------------------------------------------|--------------------------------------------------------------------------|
| Odor:                                    | Odorless                                                                 |
| Odor Threshold:                          | Odor threshold is subjective and is inadequate to warn of over exposure. |
| pH:                                      | Not applicable.                                                          |
| Melting Point:                           | -56,6 °C                                                                 |
| Boiling Point:                           | -57 °C (5,2 bar)                                                         |
| Sublimation Point:                       | -78,5 °C                                                                 |
| Critical Temp. (°C):                     | 31,0 °C                                                                  |
| Flash Point:                             | Not applicable to gases and gas mixtures.                                |
| Evaporation Rate:                        | Not applicable to gases and gas mixtures.                                |
| Flammability (solid, gas):               | This product is not flammable.                                           |
| Flammability Limit - Upper (%):          | Not applicable.                                                          |
| Flammability Limit - Lower (%):          | Not applicable.                                                          |
| Vapor pressure:                          | 45,1 bar (10 °C)                                                         |
| Vapor density (air=1):                   | 1,522 (21 °C)                                                            |
| Relative density:                        | No data available.                                                       |
| Solubility(ies)                          |                                                                          |
| Solubility in Water:                     | 2,900 mg/l (25 °C)                                                       |
| Partition coefficient (n-octanol/water): | 0,83                                                                     |
| Autoignition Temperature:                | Not applicable.                                                          |
| Decomposition Temperature:               | Not known.                                                               |
| Viscosity                                |                                                                          |
| Kinematic viscosity:                     | No data available.                                                       |
| Dynamic viscosity:                       | 0,07 mPa.s (20 °C)                                                       |
| Explosive properties:                    | Not applicable.                                                          |
| Oxidizing properties:                    | Not applicable.                                                          |

|                        |                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------|
| 9.2 Other information: | Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level. |
| Molecular weight:      | 44,01 g/mol (CO <sub>2</sub> )                                                                         |

## **SECTION 10: Stability and reactivity**

|                          |                                                                             |
|--------------------------|-----------------------------------------------------------------------------|
| 10.1 Reactivity:         | No reactivity hazard other than the effects described in sub-section below. |
| 10.2 Chemical Stability: | Stable under normal conditions.                                             |





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|                                          |                                                                                                      |
|------------------------------------------|------------------------------------------------------------------------------------------------------|
| 10.3 Possibility of hazardous reactions: | None.                                                                                                |
| 10.4 Conditions to avoid:                | None.                                                                                                |
| 10.5 Incompatible Materials:             | No reaction with any common materials in dry or wet conditions.                                      |
| 10.6 Hazardous Decomposition Products:   | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## SECTION 11: Toxicological information

**General information:** In high concentrations may cause rapid circulatory deterioration even at normal levels of oxygen concentration. Symptoms are headache, nausea and vomiting, which may lead to unconsciousness and even death.

### 11.1 Information on toxicological effects

|                                           |                                                                   |
|-------------------------------------------|-------------------------------------------------------------------|
| Acute toxicity - Oral Product             | Based on available data, the classification criteria are not met. |
| Acute toxicity - Dermal Product           | Based on available data, the classification criteria are not met. |
| Acute toxicity - Inhalation Product       | Based on available data, the classification criteria are not met. |
| Skin Corrosion/Irritation Product         | Based on available data, the classification criteria are not met. |
| Serious Eye Damage/Eye Irritation Product | Based on available data, the classification criteria are not met. |
| Respiratory or Skin Sensitization Product | Based on available data, the classification criteria are not met. |
| Germ Cell Mutagenicity Product            | Based on available data, the classification criteria are not met. |
| Carcinogenicity Product                   | Based on available data, the classification criteria are not met. |
| Reproductive toxicity Product             | Based on available data, the classification criteria are not met. |



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#### Specific Target Organ Toxicity - Single Exposure

Product Based on available data, the classification criteria are not met.

#### Specific Target Organ Toxicity - Repeated Exposure

Product Based on available data, the classification criteria are not met.

#### Aspiration Hazard

Product Not applicable to gases and gas mixtures..

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Acute toxicity

Product No ecological damage caused by this product.

### 12.2 Persistence and Degradability

Product Not applicable to gases and gas mixtures..

### 12.3 Bioaccumulative potential

Product The subject product is expected to biodegrade and is not expected to persist for long periods in an aquatic environment.

### 12.4 Mobility in soil

Product Because of its high volatility, the product is unlikely to cause ground or water pollution.

### 12.5 Results of PBT and vPvB assessment

Product Not classified as PBT or vPvB.

### 12.6 Other adverse effects:

#### Global Warming Potential

Global warming potential: 1  
When discharged in large quantities may contribute to the greenhouse effect.

Carbon dioxide



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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**General information:** Do not discharge into any place where its accumulation could be dangerous. Vent to atmosphere in a well ventilated place.

**Disposal methods:** Refer to the EIGA code of practice (Doc.30 "Disposal of Gases", downloadable at <http://www.eiga.org>) for more guidance on suitable disposal methods. Dispose of container via supplier only. Discharge, treatment, or disposal may be subject to national, state, or local laws.

#### European Waste Codes

**Container:** 16 05 05: Gases in pressure containers other than those mentioned in 16 05 04.

## SECTION 14: Transport information

### IMDG

14.1 UN Number: UN 1845  
14.2 UN Proper Shipping Name: CARBON DIOXIDE, SOLID  
14.3 Transport Hazard Class(es)  
Class: 9  
Label(s): 9  
EmS No.: F-C, S-V  
14.4 Packing Group: -  
14.5 Environmental hazards: Not applicable  
14.6 Special precautions for user: -

### IATA

14.1 UN Number: UN 1845  
14.2 Proper Shipping Name: Carbon dioxide, solid  
14.3 Transport Hazard Class(es)  
Class: 9  
Label(s): 9MI  
14.4 Packing Group: -  
14.5 Environmental hazards: Not applicable  
14.6 Special precautions for user: -  
Other information  
Passenger and cargo aircraft: Allowed.  
Cargo aircraft only: Allowed.



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### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

#### Additional identification:

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 that they are firmly secured.

## SECTION 15: Regulatory information

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

#### EU Regulations

Directive 96/61/EC: concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registry (EPER):

| Chemical name  | CAS-No.  | Concentration |
|----------------|----------|---------------|
| Carbon dioxide | 124-38-9 | 100%          |

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex 1, as amended.:

#### National Regulations

Council Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work Directive 2016/425/EEC on personal protective equipment Only products that comply with the food regulations (EC) No. 1333/2008 and (EU) No. 231/2012 and are labelled as such may be used as food additives.  
This Safety Data Sheet has been produced to comply with Regulation (EU) 2015/830.

15.2 Chemical safety assessment: Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration. A CSA does not need to be carried out for this product.

## SECTION 16: Other information

Revision Information: Not relevant.



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#### Key literature references and sources for data:

Various sources of data have been used in the compilation of this SDS, they include but are not exclusive to:

- Agency for Toxic Substances and Diseases Registry (ATSDR) (<http://www.atsdr.cdc.gov/>).
- European Chemical Agency: Guidance on the Compilation of Safety Data Sheets.
- European Chemical Agency: Information on Registered Substances <http://apps.echa.europa.eu/registered/registered-sub.aspx#search>
- European Industrial Gases Association (EIGA) Doc. 169 "Classification and Labelling guide", as amended.
- International Programme on Chemical Safety (<http://www.inchem.org/>)
- ISO 10156:2010 Gases and gas mixtures - Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets.
- Matheson Gas Data Book, 7th Edition.
- National Institute for Standards and Technology (NIST) Standard Reference Database Number 69.
- The ESIS (European chemical Substances Information System) platform of the former European Chemicals Bureau (ECB) ESIS (<http://ecb.jrc.ec.europa.eu/esis/>).
- The European Chemical Industry Council (CEFIC) ERICards.
- United States of America's National Library of Medicine's toxicology data network TOXNET (<http://toxnet.nlm.nih.gov/index.html>)
- Threshold Limit Values (TLV) from the American Conference of Governmental Industrial Hygienists (ACGIH).
- Substance specific information from suppliers.

Details given in this document are believed to be correct at the time of publication.

#### Wording of the H-statements in section 2 and 3

#### Training information:

Users of breathing apparatus must be trained. The hazard of asphyxiation is often overlooked and must be stressed during operator training. Ensure operators understand the hazards.

#### Other information:

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Ensure adequate air ventilation. Ensure all national/local regulations are observed. 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. A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis.

#### Last revised date:

01.03.2023

#### Disclaimer:

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.



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