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

1.1 Product identifier: 30 70

Refer to Section 3 for REACH information.

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

Use of the substance/
mixture: Industrial and professional use. Perform risk assessment prior to use.
Food Industries.

Restrictions on use: Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Address: Dixons Gas Limited
Newbiggin Lane
Westerhope
Tyne and Wear
NE5 1LX

Email address: Orders@dixonsgas.co.uk

Telephone: +44 (0)191 271 4888

1.4 Emergency contact details

Telephone: +44 (0)191 271 4888
Only available on weekdays during the hours of 08:00 to 17:00.
NHS call 111 for free from a landline or mobile.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

2.2 Label elements

Hazard pictograms/symbols:



Signal word: Warning.

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

Precautionary statements

Storage: P403: Store in a well ventilated place.

2.3 Other hazards:

High pressure gas.
Can cause rapid suffocation.

Mixture does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

Environmental effects: Not harmful.

SECTION 3: Composition/information on ingredients

3.1 Substances: Not applicable.

3.2 Mixtures

| Components | EINECS/ELINCS No. | CAS No. | Concentration (Volume) |
|----------------|-------------------|-----------|------------------------|
| Carbon Dioxide | 204-696-9 | 124-38-9 | 30% |
| Nitrogen | 231-783-9 | 7727-37-9 | 70% |

| Components | Classification (CLP) | REACH Reg. # |
|----------------|--------------------------|--------------|
| Carbon Dioxide | Press. Gas (Liq.); H280 | *1 |
| Nitrogen | Press. Gas (Comp.); H280 | *1 |

*1: Listed in Annex IV / V REACH, exempted from registration.

*2: Registration not required: substance manufactured or imported < 1 t/y.

*3: Registration not required: substance manufactured or imported < 1 t/y for non-intermediate uses.

Concentration is nominal. For the exact product composition, please refer to technical specifications.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: 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 direct contact with eyes, seek medical advice.

Skin contact: Adverse effects not expected from this product.

Ingestion: Ingestion is not considered a potential route of exposure.

Inhalation: Remove to fresh air. If breathing has stopped or is laboured, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. In case of shortness of breath, give oxygen.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Shivering fit. Sweating. Blurred vision. Headache. Increased pulse rate. Shortness of breath. Rapid respiration. Exposure to oxygen deficient atmosphere may cause the following symptoms: Dizziness. Salivation. Nausea. Vomiting. Loss of mobility/consciousness.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: If exposed or concerned: Get medical attention/advice.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: The product itself does not burn. Use extinguishing media appropriate for surrounding fire.

Extinguishing media which must not be used for safety reasons: Do not use water jet to extinguish.

5.2 Special hazards arising from the substance or mixture:

Upon exposure to intense heat or flame, cylinder will vent rapidly and or rupture violently. Product is non-flammable and does not support combustion. Move away from container and cool with water from a protected position. Keep containers and surroundings cool with water spray.

5.3 Advice for firefighters:

Wear self contained breathing apparatus for fire fighting if necessary. Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters. Standard EN 137 – Self-contained open-circuit compressed air breathing apparatus with full face mask. Standard EN 469 – Protective clothing for firefighters. Standard – EN 659: Protective gloves for firefighters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Monitor carbon dioxide level. Evacuate personnel to safe areas. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Monitor oxygen level. Ventilate the area.

6.2 Environmental precautions: Do not discharge into any place where its accumulation could be dangerous. Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up:

Ventilate the area.

Additional advice: If possible, stop flow of product. Increase ventilation to the release area and monitor oxygen level. If leak is from cylinder or cylinder valve, call the emergency telephone number. If the leak is in the user's system, close the cylinder valve and safely vent the pressure before attempting repairs.

6.4 Reference to other sections: For more information refer to Sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Protect cylinders from physical damage; do not drag, roll, slide or drop. Do not allow storage area temperature to exceed 50°C (122°F). Only experienced and properly instructed persons should handle compressed gases/cryogenic liquids. Before using the product, determine its identity by reading the label. Know and understand the properties and hazards of the product before use. When doubt exists as to the correct handling procedure for a particular gas, contact the supplier. Do not remove or deface labels provided by the supplier for the identification of the cylinder contents. 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. Use an adjustable strap wrench to remove over-tight or rusted caps. Before connecting the container, check the complete gas system for suitability, particularly for pressure rating and materials. Before connecting the container for use, ensure that back feed from the system into the container is prevented. Ensure the complete gas system is compatible for pressure rating

and materials of construction. Ensure the complete gas system has been checked for leaks before use. Employ suitable pressure regulating devices on all containers when the gas is being emitted to systems with lower pressure rating than that of the container. Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, causing a leak to occur. Open valve slowly. If user experiences any difficulty operating cylinder valve discontinue use and contact supplier. Close container valve after each use and when empty, even if still connected to equipment. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Close valve after each use and when empty. Replace outlet caps or plugs and container caps as soon as container is disconnected from equipment. Do not subject containers to abnormal mechanical shock. Never attempt to lift a cylinder by its valve protection cap or guard. Do not use containers as rollers or supports or for any other purpose than to contain the gas as supplied. Never strike an arc on a compressed gas cylinder or make a cylinder a part of an electrical circuit. Do not smoke while handling product or cylinders. Never re-compress a gas or a gas mixture without first consulting the supplier. Never attempt to transfer gases from one cylinder/container to another. Always use back flow protective device in piping. When returning cylinder install valve outlet cap or plug leak tight. Never use direct flame or electrical heating devices to raise the pressure of a container. Containers should not be subjected to temperatures above 50°C (122°F).

7.2 Conditions for safe storage, including any incompatibilities:

Full containers should be stored so that oldest stock is used first. Containers should be stored in a purpose build compound which should be well ventilated, preferably in the open air. Stored containers should be periodically checked for general condition and leakage. Observe all regulations and local requirements regarding storage of containers. Protect containers stored in the open against rusting and extremes of weather. Containers should not be stored in conditions likely to encourage corrosion. Containers should be stored in the vertical position and properly secured to prevent toppling. The container valves should be tightly closed and where appropriate valve outlets should be capped or plugged. Container valve guards or caps should be in place. Keep containers tightly closed in a cool, well-ventilated place. Store containers in location free from fire risk and away from sources of heat and ignition. Full and empty cylinders should be segregated. Do not allow storage temperature to exceed 50°C (122°F). Return empty containers in a timely manner.

Technical measures/
precautions:

Containers should be segregated in the storage area according to the various categories (e.g. flammable, toxic, etc.) and in accordance with local regulations. Keep away from combustible material.

7.3 Specific end use(s):

Refer to section 1 or the extended MSDS if applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

| | | | | |
|----------------|----------------------------------|------------|--------------------------|---|
| Carbon Dioxide | Time Weighted Average (TWA) | 5,000 ppm | 9,150 mg/m ³ | UK. EH40 Workplace Exposure Limits (WELs), as amended |
| Carbon Dioxide | Short Term Exposure Limit (STEL) | 15,000 ppm | 27,400 mg/m ³ | UK. EH40 Workplace Exposure Limits (WELs), as amended |
| Carbon Dioxide | Time Weighted Average (TWA) | 5,000 ppm | 9,000 mg/m ³ | EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended |

If applicable, refer to the extended section of the MSDS for further information on CSA.

DNEL: Derived no effect level (Workers): None available.

PNEC: predicted no effect concentration: None available.

8.2 Exposure controls

Engineering measures: Provide natural or mechanical ventilation to prevent accumulation above exposure limits.
Provide natural or mechanical ventilation to prevent oxygen deficient atmospheres below 19.5% oxygen.

Personal Protective Equipment

Respiratory protection: Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmosphere. Air purifying respirators will not provide protection. Users of breathing apparatus must be trained.

Hand protection: Wear work gloves when handling gas containers.
Standard EN 388 – Protective gloves against mechanical risk.

Eye and face protection: Safety glasses recommended when handling cylinders.
Standard EN 166 – Personal eye-protection.

Skin and body protection: Safety shoes are recommended when handling cylinders.
Standard EN ISO 20345 – Personal protective equipment – Safety footwear.

Special instructions for protection and hygiene: Ensure adequate ventilation, especially in confined areas.

Environmental exposure controls: If applicable, refer to the extended section of the MSDS for further information on CSA.

Remarks: Simple asphyxiant.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- (A/B) Physical state/colour: Compressed gas. Colourless gas.
- (C) Odour: Mixture contains one or more component(s) which have the following odour: No odour warning properties.
- (D) Density: 0.0014 g/cm³ (0.087 lb/ft³) at 21 °C (70 °F)
Note: (as vapour)
- (E) Relative density: 1.8303 (water = 1) Heavier than air.
- (F) Melting point/freezing point: No data available.
- (G) Boiling point/range: -158 °F (-105.56 °C)
- (H) Vapour pressure: Not data available.
- (I) Water solubility: Not known, but considered to have low solubility.

| | |
|---|--|
| (J) Partition coefficient: n-octanol/water [log kow] | Not known. |
| (K) pH: | Not applicable for gases and gas mixtures. |
| (L) Viscosity: | No reliable data available. |
| (M) Particle characteristics: | Not applicable for gases and gas mixtures. |
| (N) Upper and lower explosion/flammability limits: | Non flammable. |
| (O) Flash point: | Not applicable for gases and gas mixtures. |
| (P) Autoignition temperature: | Non flammable. |
| (Q) Decomposition temperature: | Not applicable. |

9.2 Other information

| | |
|----------------------------|---|
| Explosive properties: | Not applicable. |
| Oxidizing properties: | No data available.. |
| Molecular weight: | 32.95 g/mol |
| Odour threshold: | Odour threshold is subjective and inadequate to warn of overexposure. |
| Evaporation rate: | Not applicable for gases and gas mixtures. |
| Flammability (solid, gas): | Refer to product classification in section 2. |
| Specific volume: | 11.72 m ³ /kg (187.75 ft ³ /lb) |
| Relative vapour density: | 1.14 (air = 1) Heavier than air. |

SECTION 10: Stability and reactivity

| | |
|---|--|
| 10.1 Reactivity: | No reactive hazard other than the effects described in sub-sections below. |
| 10.2 Chemical stability: | Stable under normal conditions. |
| 10.3 Possibility of hazardous reactions: | No data available. |
| 10.4 Conditions to avoid: | None under recommended storage and handling conditions (see section 7). |
| 10.5 Incompatible materials: | No data available. |
| 10.6 Hazardous decomposition products: | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

SECTION II: Toxicological information

II.1 Information on toxicological effects

Likely routes of exposure

| | |
|---------------------|---|
| Effects on eye: | In case of direct contact with eyes, seek medical advice. |
| Effects on skin: | Adverse effects not expected from this product. |
| Inhalation effects: | Concentrations of 10% CO ₂ or more can produce unconsciousness or death. Unlike simple asphyxiants, carbon dioxide has the ability to cause death even when normal oxygen levels (20-21%) are maintained. Carbon Dioxide is physiologically active, affecting circulation and breathing. At concentrations between 2 and 10%, carbon dioxide can cause nausea, dizziness, headache, mental confusion, increased blood pressure and respiratory rate. In high concentrations may cause asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themselves. |
| Ingestion effects: | Ingestion is not considered a potential route of exposure. |
| Symptoms: | Exposure to oxygen deficient atmosphere may cause the following symptoms: Dizziness. Salivation. Nausea. Vomiting. Loss of mobility/consciousness. Shivering fit. Sweating. Blurred vision. Headache. Increased pulse rate. Shortness of breath. Rapid respiration. |

Acute toxicity

| | |
|------------------------------------|---|
| Acute oral toxicity: | No data is available on the product itself. |
| Acute inhalation toxicity: | Unlike simple asphyxiants, carbon dioxide has the ability to cause death even when normal oxygen levels (20-21%) are maintained. 5% CO ₂ has been found to act synergistically to increase the toxicity of certain other gases (CO, NO ₂). CO ₂ has been shown to enhance the production of carboxy- or met-haemoglobin by these gases possibly due to carbon dioxide's stimulatory effects on the respiratory and circulatory systems. |
| Acute dermal toxicity: | No data is available on the product itself. |
| Skin corrosion/irritation: | No data available. |
| Serious eye damage/eye irritation: | No data available. |
| Sensitisation: | No data available. |

Chronic toxicity or effects from long term exposures

| | |
|--|---|
| Carcinogenicity: | No data available. |
| Reproductive toxicity: | No data is available on the product itself. |
| Germ cell mutagenicity: | No data is available on the product itself. |
| Specific target organ systemic toxicity (single exposure): | No data available. |
| Specific target organ systemic toxicity (repeated exposure): | No data available. |

Aspiration hazard: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No data is available on the product itself.

Toxicity to fish:

| | | |
|----------------|---------------------|--|
| Carbon Dioxide | LC50 (1h): 240 mg/l | Species: Rainbow trout (<i>Oncorhynchus mykiss</i>). |
| Carbon Dioxide | LC50 (96h): 35 mg/l | Species: Rainbow trout (<i>Oncorhynchus mykiss</i>). |

Toxicity to other organisms: No data is available on the product itself.

12.2 Persistence and degradability:

No data available.

12.3 Bioaccumulative potential: Refer to Section 9 "Partition Coefficient (n-octanol/water)".

12.4 Mobility in soil:

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

12.5 Results of PBT and vPvB assessment:

If applicable, refer to the extended section of the MSDS for further information on CSA.

12.6 Other adverse effects:

When discharged in large quantities may contribute to the greenhouse effect.

Effects on the ozone layer: No known effects from this product.

Ozone depleting potential: None.

Effect on global warming: When discharged in large quantities may contribute to the greenhouse effect.

Global warming potential: 1.

SECTION 13: Disposal considerations

13.1 Waste treatment methods: Contact supplier if guidance is required. Return unused product in original cylinder to supplier. 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. List of hazardous waste codes: 16 05 05: Gases in pressure containers other than those mentioned in 16 05 04.

Contaminated packaging: Return cylinder to supplier.

SECTION 14: Transport information

14.1 UN number

UN/ID No. UN1956

14.2 UN proper shipping name

Transport by road/rail (ADR/RID): 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)

Label(s): 2.2

Transport by road/rail (ADR/RID)

Class or division: 2

ADR/RID hazard ID no.: 20

Tunnel code: (E)

Transport by air (ICAO-TI/IATA-DGR)

Class or division: 2.2

Transport by sea (IMDG)

Class or division: 2.2

14.4 Packing group

Transport by road/rail (ADR/RID): Not applicable.

Transport by air (ICAO-TI/IATA-DGR): Not applicable.

Transport by sea (IMDG): Not applicable.

14.5 Environmental hazards

Transport by road/rail (ADR/RID)

Marine pollutant: No.

Transport by air (ICAO-TI/IATA-DGR)

Marine pollutant: No.

Transport by sea (IMDG)

Marine pollutant: No.

Segregation group: None.

14.6 Special precautions for user

Transport by air (ICAO-TI/IATA-DGR)

Passenger and cargo aircraft: Transport allowed.

Cargo aircraft only: Transport allowed.

Further information: 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. The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact customer service.

14.7 Transport in bulk according to Annex II of Marpol and the IBC code: Not applicable.

SECTION 15: Regulatory information

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

| Country | Regulatory list | Notification |
|-------------|-----------------|------------------------|
| USA | TSCA | Included on inventory. |
| EU | EINECS | Included on inventory. |
| Canada | DSL | Included on inventory. |
| Australia | AICS | Included on inventory. |
| South Korea | ECL | Included on inventory. |
| China | SEPA | Included on inventory. |
| Philippines | PICCS | Included on inventory. |
| Japan | ENCS | Included on inventory. |

Other regulations

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EC) No 1272/2008 the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 907/2006.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

Health and Safety at Work etc. Act 1974

Management of Health and Safety at Work Regulations (Northern Ireland) 2000 c.388, and as amended

Management of Health and Safety at Work Regulations 1999 (S.I. Number 3242)

The Health and Safety at Work etc. Act 1974 (Application to Environmentally Hazardous Substances) Regulations 2002 (England and Wales and Scotland) 11 March 2002 c.282, and as amended

Health and Safety at Work Order (Application to Environmentally Hazardous Substances) Regulations (Northern Ireland) 2003 (Northern Ireland) 14 March 2003 c52, and as amended

The Control of Major Accident Hazards Regulations 2015 c483

The Control of Major Accident Hazards Regulations (Northern Ireland) 2015 c325

The Pressure Systems Safety Regulations 2000 (S.I. Number 128) link to Pressure Equipment Directive (97/23/EC)

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2011 c1885, and

as amended

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations with amendments (Northern Ireland) 2011 c.365

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 c.407

The Water Environment Regulations (Northern Ireland) 2017 c.81

Pollution Prevention and Control Act 1999 c.24

The Fluorinated Greenhouse Gases Regulations 2015 c.310

The Fluorinated Greenhouse Gases Regulations (Northern Ireland) 2015 c.425

The Acetylene Safety (England and Wales and Scotland) Regulations 2014 c.1639

The Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972 c.917

The Highly Flammable Liquids and Liquefied Petroleum Gases Regulations (Northern Ireland) 1975 c.256

Dangerous Substances and Explosive Atmospheres Regulations (Northern Ireland) 2003 c.152

The Dangerous Substances and Explosive Atmospheres Regulations 2002 c.2776

Pollution Prevention and Control Act 1999

The Environmental Permitting (England and Wales) Regulations 2016

Ozone Depleting Substances Regulations 2015

15.2 Chemical safety assessment:

A CSA does not need to be carried out for this product.

SECTION 16: Other information

Ensure all national/local regulations are observed

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

Indication of method: Gases under pressure Compressed gas. Contains gas under pressure; may explode if heated. Calculation method.

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. |
| ELINCS | European List of Notified Chemical Substances. |
| CAS# | Chemical Abstract Service number. |
| PPE | Personal Protection Equipment. |
| Kow | Octanol-water partition coefficient. |

| | |
|------|--|
| DNEL | Derived No Effect Level. |
| LC50 | Lethal Concentration to 50 % of a test population. |
| LD50 | Lethal Dose to 50% of a test population (Median Lethal Dose). |
| NOEC | No Observed Effect Concentration. |
| PNEC | Predicted No Effect Concentration. |
| RMM | Risk Management Measure. |
| OEL | Occupational Exposure Limit. |
| PBT | Persistent, Bioaccumulative and Toxic. |
| vPvB | Very Persistent and Very Bioaccumulative. |
| STOT | Specific Target Organ Toxicity. |
| CSA | Chemical Safety Assessment. |
| EN | European Standard. |
| UN | United Nations. |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| IATA | International Air Transport Association. |
| IMDG | International Maritime Dangerous Goods. |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail. |
| WGK | Water Hazard Class. |

Key literature references and sources of data

ECHA Guidance on the compilation of safety data sheets.

ECHA Guidance on the application of the CLP criteria.

ARIEL database

Prepared by: Air Products and Chemicals, Inc. (Global EH&S department)

For additional information, please visit our product stewardship website at: www.airproducts.com

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws. COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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