

# SAFETY DATA SHEET



Ref: GCS/SDS/0002

## BEVGAS – 30, 50, 60 Carbon Dioxide (CO<sub>2</sub>) and Nitrogen (N<sub>2</sub>) Mixtures

### 01 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product Name BEVGAS 30, 50, 60 Carbon Dioxide and Nitrogen Mixtures  
 Chemical Formula CO<sub>2</sub>/N<sub>2</sub>  
 Company Identification Gas Container Services Ltd, Roadway No.7, Colwick Industrial Estate, Colwick, Nottingham. NG4 2JW  
 Emergency Phone Numbers 0115 987 0944

Bevgas is a range of carbon dioxide / nitrogen mixtures designed specifically to meet the needs of the licensed trader for beverage dispense purposes. Bevgas is supplied in high pressure gas cylinders, each fitted with an outlet valve which must never be removed.

It is important that users know and understand the properties of Bevgas and how to handle safely high pressure gas cylinders before using Bevgas

Always read the label on the cylinder

CARBON DIOXIDE E290 PLUS NITROGEN E941	30% CO <sub>2</sub> PLUS 70% N <sub>2</sub> UN 1956 COMPRESSED GAS N.O.S.	Filled to 200 BAR max at 15°C			<b>Gas Container Services Ltd.</b> Roadway No.7, Colwick, Nottingham NG4 2JW	<b>IN EMERGENCY</b> TEL. 0115 987 0944
CARBON DIOXIDE E290 PLUS NITROGEN E941	50% CO <sub>2</sub> PLUS 50% N <sub>2</sub> UN 1956 COMPRESSED GAS N.O.S.	Filled to 200 BAR max at 15°C			<b>Gas Container Services Ltd.</b> Roadway No.7, Colwick, Nottingham NG4 2JW	<b>IN EMERGENCY</b> TEL. 0115 987 0944
CARBON DIOXIDE E290 PLUS NITROGEN E941	60% CO <sub>2</sub> PLUS 40% N <sub>2</sub> UN 1956 COMPRESSED GAS N.O.S.	Filled to 200 BAR max at 15°C			<b>Gas Container Services Ltd.</b> Roadway No.7, Colwick, Nottingham NG4 2JW	<b>IN EMERGENCY</b> TEL. 0115 987 0944

Bevgas gas type	Nominal gas volume	Cylinder size (mm)		Maximum filling pressure (bar)	Approx cylinder weight (kg)	Nominal weight of gas (kg)	Gross weight of cylinder + gas (kg)
		Diameter	Height				
Bevgas 30 30% CO <sub>2</sub> / 70% N <sub>2</sub>	2.26	165	750	200	17.5	3.14	20.64
Bevgas 50 50% CO <sub>2</sub> / 50% N <sub>2</sub>	2.75	165	750	200	17.5	4.20	21.70
Bevgas 60 60% CO <sub>2</sub> / 40% N <sub>2</sub>	2.80	165	750	200	17.5	4.53	22.03

### Intended Use

Bevgas CO<sub>2</sub>/N<sub>2</sub>, is intended only for beverage dispense purposes. Do not use for any other purpose.

### 02 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation Preparation  
 Components/Impurities Contains no other components or impurities which will influence the classification of the product.

### 03 HAZARDS IDENTIFICATION

Hazards identification Compressed gas.  
 In high concentrations may cause asphyxiation.

### 04 FIRST AID MEASURES

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

Ingestion Ingestion is not considered a potential route of exposure.

### 05 FIRE FIGHTING MEASURES

Specific hazards Exposure to fire may cause containers to rupture/explode.  
 Non flammable.  
 Hazardous combustion products None.  
 Suitable extinguishing media All known extinguishants can be used.  
 Move away from the container and cool with water from a protected position.  
 Special protective equipment for fire fighters In confined space use self-contained breathing apparatus.

### 06 ACCIDENTAL RELEASE MEASURES

Personal precautions Evacuate Area.  
 Wear self-contained breathing apparatus when entering area unless atmosphere is proved be safe.  
 Ensure adequate air ventilation.  
 Try to stop release only if safe to do so.

Environmental precautions Prevent from entering sewers, basements, cellars and workpits, or any place where its accumulation can be dangerous.

**06 ACCIDENTAL RELEASE MEASURES . . . cont . . .**

Clean up methods      Ventilate area.

**07 HANDLING AND STORAGE**

Handling and storage.      Cylinders should be secure when stored or in use.  
 Suck back of water into the container must be prevented.  
 Do not allow backfeed into the container.  
 Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. If in any doubt, contact your gas supplier.  
 Refer to supplier's container handling instructions.  
 Keep container below 50°C in well ventilated place.

**08 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure limit value for      Great Britain: STEL: 15000 ppm; LTEL: 5000  
 country                              ppm (EH 40/97).  
 Personal protection              Ensure adequate ventilation.

**09 PHYSICAL AND CHEMICAL PROPERTIES**

Relative density, gas              Gas/vapour heavier than air.  
 Solubility mg/1 water              No reliable data available.  
 Appearance/Colour              Colourless gas.  
 Odour                                  No odour warning properties.  
 Other data                              Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

**10 STABILITY AND REACTIVITY**

Stability and reactivity              Stable under normal conditions.

**11 TOXICOLOGICAL INFORMATION**

General                                  In high concentrations cause rapid circulatory insufficiency. Symptoms are headache, nausea and vomiting, which may lead to unconsciousness.  
 Carbon dioxide is mildly toxic, with no cumulative effects.

**12 ECOLOGICAL INFORMATION**

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

**13 DISPOSAL CONSIDERATIONS**

General                                  Do not discharge into any place where its accumulation could be dangerous.  
 To atmosphere in a well ventilated place.  
 Discharge to atmosphere in large quantities should be avoided.  
 Contact supplier if guidance is required.

**14 TRANSPORT INFORMATION**

UN Nr                                      1956  
 Class/Div                                  2.2  
 ADR/RID Classification              1A  
 code  
 ADR/RID Hazard Nr                      20  
 Labelling ADR                              Label 2.2: non flammable non toxic gas  
 Other transport                              Avoid transport on vehicles where the load information                                  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 and:-  
 - cylinder valve is closed and not leaking.  
 - valve outlet cap nut or plug (where required) is correctly fitted.  
 - valve protection device (where provided) is correctly fitted.  
 - there is adequate ventilation.  
 - compliance with applicable regulations.

**15 REGULATORY INFORMATION**

Number in Annex I Dir                  Not applicable for preparations.  
 67/548  
 EC Classification                              Not Classified as dangerous preparation.  
 EC Labelling \*Symbols,                  No EC labelling required  
 R&S Phrases)

**16 OTHER INFORMATION**

Asphyxiant in high concentrations  
 Keep container in well ventilated place.  
 Do Not breathe the gas.  
 Ensure all national/local regulations are observed.  
 The hazard of asphyxiation is often overlooked and must be stressed during operator training.  
 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 as been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.  
 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.  
 The MSDS is for information purposes only and is subject to change without notice. [Prior to purchase of products, please contact Gas Container Services Limited for a complete MSDS (with Manufacturer's name and emergency phone number).]