

# Mixed Gas Carbon Dioxide (CO2) IN Nitrogen (N2)

## Safety Data Sheet



### 1. COMPANY:

*Address:* Brewgas  
Old Lyndhurst Road  
Cadnam  
Hampshire  
SO40 2NL

### 2. IDENTIFICATION OF SUBSTANCE/PREPARATION:

*Identifixation of the substance/Preparation:* Carbon Dioxide / Nitrogen  
*Chemical Formula:* CO2 and N2  
*Substance Type:* Food Applications

### 3. COMPOSITION/INFORMATION ON INGREDIENTS:

<b>Components:</b>	<b>CAS Number:</b>	<b>Concentration Volume (varied mixes):</b>
Carbon Dioxide	124-38-9	30%/60%/50%
Nitrogen	7727-37-9	70%/40%/50%

### 4. HAZARD IDENTIFICATION:

High Pressure Compressed gas  
Contains as under pressure; may explode if heated  
Can cause suffocation

### 5. FIRST AID MEASURES:

#### Potential Health Effects

#### *Inhalation:*

Concentrations of 10% CO2 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. 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.

Remove to fresh air. If breathing has stopped or is laboured give assisted respirations. If the heart has stopped, trained personnel should apply artificial respiration.

*Additional Information:* Keep victim warm and rested, call doctor or ambulance.

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

### 6. FIRE FIGHTING MEASURES:

#### *Extinguishing media:*

All known extinguishing media can be used.

#### *Specific Hazard:*

Upon exposure to heat or flame, cylinder will vent rapidly and or rupture violently, 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.

*Method of cleaning up:* Try to stop release if safe to do so, ventilate the area.

### 7. ACCIDENTAL RELEASE MEASURES:

#### *Personal Precautions:*

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.

#### *Environmental precautions:*

Do not discharge into confined spaces e.g cellars

#### *Method of cleaning up:*

Try to stop release if safe to do so, ventilate the area.



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### 7. HANDLING AND STORAGE

Protect cylinders from physical damage; do not drag, roll, slide or drop. Before using the product, determine its identity by reading the label, use only specified equipment which is suitable for this product, never attempt to repair or modify containers valves or safety relief valves. Contact the gas supplier if in doubt, or cylinders is damaged. Do not store cylinders adjacent to direct heat sources or within sealed rooms where ambient heat may build up. Cylinders must be stored and used in an upright position only. Keep cylinders below 50°C and avoid prolonged periods of cold temperatures below -30°C. Store in a well ventilated place, if this is not possible then conduct a confined spaces risk assessment to determine if a CO<sub>2</sub> analyser is required. Open and close cylinder valves slowly, only open when connected to the correct equipment. Close cylinder after use.

### 8. EXPOSURE CONTROLS/PRECAUTIONS

*Exposure Limits: (GB)* Carbon Dioxide Occupational Exposure Standards (OES)  
Short term exposure Limit (STEL) 15000vpm  
Long term exposure limit (LTEL) 5000vpm

*Personal protection:* Ensure adequate ventilation to keep below exposure limits.  
Suitable safety shoes for handling cylinders.  
Safety glasses when handling cylinders.  
Sturdy work gloves for handling cylinders.

### 9. STABILITY AND REACTIVITY

*Stability and Reactivity:* Stable under normal conditions

### 10. DISPOSAL CONSIDERATIONS

*Waste from residues:* Return unused product in original cylinder to supplier

*Contaminated Packaging:* Return cylinder to supplier

### 11. TRANSPORT INFORMATION

*Un Number:* UN1956  
*Class:* 2.2  
*ADR Hazard ID No:* 20

#### *Other transport Information:*

Avoid transportation where the load is not separate from the driver. Driver is aware of all potential hazards and knows what to do in the event of an accident or emergency.

### 12. OTHER INFORMATION:

Ensure all national / local regulations are observed. Keep cylinders in well ventilated place. Do not breathe the gas. The hazard of asphyxiation is often overlooked and must be stressed during operator training. Users of breathing apparatus must be trained. Details in the document are believed to be correct at time of review.

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.