

# THE BEER and GAS MAN

**MIXGAS 30, 60**

## **Gas Safety Data Sheet**

Product: Nitrogen + Carbon Dioxide MSDS Nr. 300-15-0008

### 1. Identification of the Substance/Preparation / Company Information.

Product Name Asphyxiate (+CO<sub>2</sub>)

Emergency phone number **07966 149465**

### 2. Composition/Information on Ingredients

Substance /Preparation Preparation

Components/Impurities Contains the following components Nitrogen and Carbon Dioxide. (Refer to reference chart.)

### 3. Hazards Identification

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

### 4. First Aid Measures

Inhalation Low concentrations of CO<sub>2</sub> cause increased respiration and headache. Exposure to high volumes of Nitrogen and Carbon Dioxide mixtures 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 stops.

Ingestion Ingestion is not considered a potential route of exposure.

### 5. Fire Fighting Measures

Specific hazards Exposure to fire may cause cylinders to rupture/explode. ( Non-flammable.)

Hazardous combustible products None.

Suitable extinguisher media All known extinguishers can be used.

Specific methods If possible, stop flow of product. Move cylinder away or cool with water from a protected position.

Special protective equipment for fire fighters In a confined space use self-contained breathing apparatus.

### 6. Accidental Release Measures

Personal precautions Evacuate the area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe, i.e. oxygen concentration is 21% +/- 2% and CO<sub>2</sub> concentration is less than 1.5%. Ensure adequate air ventilation.

Small release For a leaking cylinder, try to stop release by closing the valve if safe to do so.

Environmental precautions Try to stop release if safe to do so. Prevent from entering low lying areas where its accumulation can be dangerous, e.g. cellars.

Clean up methods Ventilate area.

### 7. Handling and Storage

Cylinders should be secured when stored or in use. Only use cylinders when in an upright position. Suck back of water into the cylinder must be prevented. Do not allow back feed into the cylinder. When cylinder valves have been exposed to flooding in cellars, the cylinder must not be used and **The Beer and Gas Man** notified for collection. Do not store cylinders adjacent to direct heat sources or within sealed rooms where ambient heat may build up. Keep cylinders below 50 degrees centigrade. Store in a well ventilated place, and if this is not possible conduct a confined risk assessment. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Only open the cylinder valve when connected to equipment. Open and close valve slowly. Close cylinder valve when not in use.

### 8. Exposure Controls/Personal Protection

Exposure limits (Great Britain) Carbon Dioxide Occupational Exposure Standard (OES)  
Short Term Exposure Limit (STEL) 1500vpm  
Long Term Exposure Limit (LTEL) 5000vpm

(EH 40/2002)

Personal protection Ensure adequate ventilation to keep below exposure limits.

### 9. Physical and Chemical Properties

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

### 10. Stability and Reactivity

Stability and reactivity Stable under normal conditions.

### 11. Toxicology Information

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

### 12. Ecological information

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

### 13. Disposal Considerations

General Discharge to atmosphere in a well ventilated place. Do not discharge into a place where gas may accumulate. Discharge to atmosphere in large quantities should be avoided.

### 14. Transport Information

UN Nr	1956	Class/Div	2.
ADR/RID Classification Code	1A	ADR/RID Hazard Nr	20
Labelling ADR	Label 2.2: non-flammable, non toxic gas.		

Other transport information Avoid transport on vehicles where the load space is not separate 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 emergency.  
Before transporting cylinders ensure that they are firmly secured and: cylinder valve is closed and not leaking, valve guard is correctly fitted, there is adequate ventilation, compliance with applicable regulations.

### 15. Regulatory Information

Number in Annex 1 of Dir 67/548 Not applicable for preparations..  
EC Classification Not classified as a dangerous preparation.  
Labelling of cylinders-Symbols Label 2: non flammable non-toxic gas.

### 16. Other Information

Ensure all national/local regulations are observed. For beverage dispense only.

### Cylinder Size Reference Chart-Mix Gas

Cylinder Size	Dimensions (cm)		Approx. Weight (kg)	Gross weight of Cylinder + gas (kg)	Nominal Gas Volume (m3)	Fill Press.(bar)
	Diameter	Height				
<b>30%CO2/70%N2</b>						
10 litre	14	94	16	19.45	2.48	200
10litre	16	75	16	19.45	2.48	200
50 litre	23	150	65	81.00	10.78	200
<b>60%CO2/40%N2</b>						
10 litre	14	94	16	20.53	2.80	180
10 litre	16	75	16	20.53	2.80	180
50 litre	23	150	65	86.00	1 2.70	180

