THE GAS MAN

Co2 & Mixed Gas to the Licensed trade
Welding Gas, Propane/Butane & Helium

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 (+CO2)

Emergency phone number 07940 080609

2.Composition/Information on Ingredients

Substance /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 CO2 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 In a confined space use self-contained breathing apparatus.

for fire fighters

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 CO2

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 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.

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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 Dimensions (cm) Approx. Gross weight of Nominal Gas Fill

Size Diameter Height Weight (kg) Cylinder + gas (kg) Volume (m3) Press.(bar)

30%CO2/70%N2

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

60%CO2/40%N2

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