

100ppm CO // N2

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2.2 : Non flammable, non toxic gas.

Warning



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

Product identifier
Trade name : 100ppm CO // N2
SDS Nr : 100PPM CO // N2
Use : Industrial and professional. Perform risk assessment prior to use.
Company identification : CAC GAS & Instrumenation Pty Ltd
 Promtel
 Unit 10, Junction Estate, 2 Duck Street
 Auburn 2144 AUSTRALIA
Emergency telephone number : 0400959760

2 Hazards identification

Classification of the substance or mixture

Hazard Class and Category Code
Regulation EC 1272/2008 (CLP)

• **Physical hazards** : Gases under pressure - Compressed gas - Warning (H280)

Label elements

Labelling Regulation EC 1272/2008 (CLP)

• **Hazard pictograms**



• **Hazard pictograms code**

• **Signal word**

: Warning

• **Hazard statements**

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

• **Precautionary statements**

- **Storage**

: P403 : Store in a well-ventilated place.

Labelling EC 67/548 or EC 1999/45

Symbol(s)

: None.

R Phrase(s)

: None.

S Phrase(s)

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2 Hazards identification (continued)

Other hazards

Other hazards : None.

3 Composition/information on ingredients

Substance / Preparation : Preparation.

Components : This product is hazardous.

Substance name	Contents	CAS No	EC No	Index No	Registration no	Classification
Carbon monoxide	0.01	630-08-0	211-128-3	006-001-00-2	NOTE 2	F+; R12 Repr. Cat. 1; R61 T; R23-48/23 ----- Flam. Gas 1 (H220) Repr. 1A (H360U) Acute Tox. 3 (H331) STOT RE 1 (H372) Press. Gas (H280)
Nitrogen	99.99	7727-37-9	231-783-9	----	NOTE 1	----- Press. Gas (H280)

Full text of R-phrases see chapter 16

Full text of H-statements see chapter 16

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

Note 2: Registration deadline not expired.

4 First aid measures

First aid measures

- Inhalation : In high concentrations 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 stopped.
- Skin/eye contact : Ingestion is not considered a potential route of exposure.

5 Fire-fighting measures

Specific hazards : Exposure to fire may cause containers to rupture/explode.

Extinguishing media

- Suitable extinguishing media : All known extinguishants can be used.

Specific methods

: If possible, stop flow of product.
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.

6 Accidental release measures

- Personal precautions** : Evacuate area.
Ensure adequate air ventilation.
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
- Environmental precautions** : Try to stop release.
- Clean up methods** : Ventilate area.

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7 Handling and storage

- Handling** : Open valve slowly to avoid pressure shock.
 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. Contact your gas supplier if in doubt.
 Refer to supplier's container handling instructions.
- Storage** : Keep container below 50°C in a well ventilated place.

8 Exposure controls/personal protection

- Personal protection** : Ensure adequate ventilation.
- Occupational Exposure Limits** : Carbon monoxide : TLV© -TWA [ppm] : 25
 Carbon monoxide : TLV© -TWA [ppm] : 25

9 Physical and chemical properties

- Physical state at 20 °C** : Compressed gas.
- Colour** : Colourless.
- Odour** : Odourless.
- Relative density, gas (air=1)** : Lighter or similar to air.

10 Stability and reactivity

- Stability and reactivity** : Stable under normal conditions.

11 Toxicological information

- Toxicity information** : No known toxicological effects from this product.
- Rat inhalation LC50 [ppm/4h]** : • Carbon monoxide : 1880

12 Ecological information

- Ecological effects information** : No known ecological damage caused by this product.
- Effect on ozone layer** : None.

13 Disposal considerations

- General** : Do not discharge into any place where its accumulation could be dangerous.
 Contact supplier if guidance is required.
- Disposal method** : Consult supplier for specific recommendations.

14 Transport information

- UN number** : 1956
- Labelling ADR, IMDG, IATA

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14 Transport information (continued)

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Land transport

ADR/RID

H.I. nr : 20
UN proper shipping name : COMPRESSED GAS, N.O.S. (Nitrogen)
Transport hazard class(es) : 2
- ADR/RID Classification code : 1 A
 - Packing Instruction(s) - General : P200
- Tunnel Restriction : E : Passage forbidden through tunnels of category E.

Sea transport

- IMO-IMDG code
• Proper shipping name : COMPRESSED GAS, N.O.S. (Nitrogen)
• Class : 2.2
- IMO Packing group : P200
- Emergency Schedule (EmS) - Fire : F-C
- Emergency Schedule (EmS) - Spillage : S-V
- Instructions - Packing : P200

Air transport

- ICAO/IATA
- Proper shipping name : COMPRESSED GAS, N.O.S. (Nitrogen)
• Class : 2.2
• Passenger and Cargo Aircraft :
 - Packing instruction : 200
• Cargo Aircraft only :
 - Packing instruction : 200

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.

Before transporting product containers :

- Ensure that containers are firmly secured.
- Ensure cylinder valve is closed and not leaking.
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
- Ensure valve protection device (where provided) is correctly fitted.
- Ensure there is adequate ventilation.
- Compliance with applicable regulations.

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

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16 Other information

Asphyxiant in high concentrations.
 Keep container in a well-ventilated place.
 Do not breathe the gas.
 The hazard of asphyxiation is often overlooked and must be stressed during operator training.
 Receptacle under pressure.

List of full text of R-phrases in section 3. : R12 : Extremely flammable.
 R23 : Toxic by inhalation.
 R48/23 : Toxic : danger of serious damage to health by prolonged exposure through inhalation.
 R61 : May cause harm to the unborn child.

List of full text of H-statements in section 3. : H220 : Extremely flammable gas.
 H280 : Contains gas under pressure; may explode if heated.
 H331 : Toxic if inhaled.
 H360 : May damage fertility or the unborn child.
 H372 : Causes damage to organs through prolonged or repeated exposure.

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.

DISCLAIMER OF LIABILITY : 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 has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

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