

## SAFETY DATA SHEET

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### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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#### 1.1 Product Identifier

**Product Name:** NITROGEN, COMPRESSED

**Synonyms:** Nitrogen gas, N<sub>2</sub>

**Product Code:** A4000

#### 1.2 Relevant Identified Uses and Uses Advised Against

**Identified Uses:** Inerting, purging, welding, laboratory and industrial applications

**Uses Advised Against:** Not for medical or breathing use unless certified as such

#### 1.3 Supplier Details

**Supplier:** Industrial Gases New Zealand Ltd t/a Eziswap Gas

**Address:** 6 and 10 Canaveral Drive, Rosedale, Auckland, NEW ZEALAND

**Phone:** +64 9 444 0357

**Email:** sales@eziswapgas.co.nz

**Website:** <http://www.eziswapgas.co.nz>

#### 1.4 Emergency Telephone Number

**Emergency Telephone (NZ Only):** 111

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### 2. HAZARDS IDENTIFICATION

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#### 2.1 Classification of the Substance or Mixture

- Gases under pressure – Compressed gas
- Simple asphyxiant (may displace oxygen at high concentrations)

#### 2.2 GHS Label Elements

**Signal Word:** WARNING

**Pictogram:**



#### **Hazard Statements**

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

#### **Precautionary Statements**

- P103: Read label before use
- P410 + P403: Protect from sunlight. Store in a well-ventilated place

#### 2.3 Other Hazards

- In high concentrations may cause asphyxiation
- Contact with rapidly expanding gas may cause cold burns

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### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

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Ingredient	CAS Number	EC Number	Content (v/v)
Nitrogen	7727-37-9	231-783-9	>99.7%

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### 4. FIRST AID MEASURES

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#### **4.1 Description of First Aid Measures**

- **Inhalation:** Remove to fresh air. Provide oxygen or artificial respiration if needed. Seek medical attention.
- **Skin Contact:** In case of cold burns, rinse with lukewarm water. Do not rub.
- **Eye Contact:** Rinse with water if irritation occurs.
- **Ingestion:** Not applicable

#### **4.2 Most Important Symptoms and Effects**

- Dizziness, headache, unconsciousness (due to oxygen displacement)
- Frostbite symptoms in case of contact with liquefied gas

#### **4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed**

- Treat symptomatically for oxygen deficiency and cold exposure
- Ensure responders wear SCBA if necessary

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### 5. FIRE FIGHTING MEASURES

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#### **5.1 Extinguishing Media**

Non-flammable. Use extinguishing media appropriate for surrounding fire.

#### **5.2 Special Hazards Arising from the Substance**

- Cylinders may rupture under fire conditions
- May displace oxygen in enclosed or poorly ventilated areas

#### **5.3 Advice for Firefighters**

- Use SCBA and full protective clothing
- Cool cylinders with water spray
- Evacuate area if leaking or involved in fire

#### **5.4 Hazchem Code**

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### 6. ACCIDENTAL RELEASE MEASURES

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#### **6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

- Evacuate area
- Ensure adequate ventilation
- Use SCBA in confined or low oxygen spaces

#### **6.2 Environmental Precautions**

- Not environmentally hazardous
- Avoid release in enclosed or poorly ventilated areas

#### **6.3 Methods and Materials for Containment and Clean-Up**

- Stop leak if safe to do so
- Vent gas to open air

#### **6.4 Reference to Other Sections**

See Sections 8 and 13

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## **7. HANDLING AND STORAGE**

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### **7.1 Precautions for Safe Handling**

- Use only with equipment rated for compressed gases
- Avoid handling with greasy or oily hands
- Do not drop cylinders or allow physical damage

### **7.2 Conditions for Safe Storage, Including Any Incompatibilities**

- Store in a well-ventilated place below 45°C
- Keep cylinders upright, secured, and with valve caps in place
- Keep away from heat and ignition sources

### **7.3 Specific End Use(s)**

Used in industrial and laboratory applications

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## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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### **8.1 Control Parameters (Workplace Exposure Standards - NZ WES 2022)**

- **Nitrogen:** No occupational exposure limits assigned

### **8.2 Exposure Controls**

- **Engineering Controls:** Use in well-ventilated areas
- **Personal Protective Equipment (PPE):**
  - **Eye Protection:** Safety goggles should be worn when handling cylinders or if there is a risk of splashing or cold gas contact
  - **Skin Protection:** Wear insulated gloves if handling cold gas
  - **Respiratory Protection:** SCBA in case of low oxygen environment



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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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Property	Value
Appearance	Colourless, odourless gas
Boiling Point	-195.8°C
Vapour Pressure	Not applicable
Vapour Density (Air=1)	0.97
Flammability	Non-flammable
Solubility in Water	Slight
Critical Temperature	-147°C

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## 10. STABILITY AND REACTIVITY

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### 10.1 Reactivity

Inert gas – non-reactive under normal conditions

### 10.2 Chemical Stability

Stable at ambient conditions

### 10.3 Possibility of Hazardous Reactions

None under normal use

### 10.4 Conditions to Avoid

Extreme heat, confined spaces, poor ventilation

### 10.5 Incompatible Materials

None

### 10.6 Hazardous Decomposition Products

None

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## 11. TOXICOLOGICAL INFORMATION

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- **Acute Toxicity:** Not toxic
- **Inhalation:** Can displace oxygen and cause suffocation
- **Skin/Eye Contact:** May cause frostbite in contact with cold gas
- **Chronic Effects:** None known

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## 12. ECOLOGICAL INFORMATION

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- **Ecotoxicity:** Not classified as hazardous
- **Persistence and Degradability:** Will dissipate in the atmosphere
- **Bioaccumulation:** Not applicable
- **Mobility:** High
- **Other Adverse Effects:** None

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## 13. DISPOSAL CONSIDERATIONS

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- **Product:** Vent slowly to a well-ventilated area
- **Container:** Return cylinders to supplier
- Do not incinerate or puncture

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## 14. TRANSPORT INFORMATION

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Mode	UN Number	Proper Shipping Name	Class	Packing Group	Hazchem	EMS
Land	UN1066	Nitrogen, Compressed	2.2	Not applicable	2T	—
Sea (IMDG)	UN1066	Nitrogen, Compressed	2.2	Not applicable	2T	F-C, S-V
Air (IATA)	UN1066	Nitrogen, Compressed	2.2	Not applicable	—	—

**PRODUCT NAME    NITROGEN, COMPRESSED**

**Additional Notes:**

- Classified as a Dangerous Good under NZS 5433, IMDG, and IATA
- Hazard Label:



- Ensure valve protection during transport

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## 15. REGULATORY INFORMATION

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- **HSNO Approval Code:** HSR001027
- **Group Standard:** Compressed Gases (Non-flammable) Group Standard 2017
- **Inventory Status:** Listed on NZIoC (New Zealand Inventory of Chemicals)

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## 16. OTHER INFORMATION

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- This SDS has been prepared in accordance with the Health and Safety at Work (Hazardous Substances) Regulations 2017 and GHS 7
- Not for use in food or medical applications unless certified
- Store and handle according to applicable workplace safety and compressed gas regulations
- Revision Date: June 2025