

# SAFETY DATA SHEET

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

# 1.1 Product identifier

# Product name NITROGEN, COMPRESSED

Synonyms NITROGEN

## 1.2 Uses and uses advised against

Uses INDUSTRIAL APPLICATIONS

# 1.3 Details of the supplier of the product

Supplier name	POWER 10 GASES PTY LIMITED
Address	9/10 Pioneer Ave, Thornleigh, NSW, 2120, AUSTRALIA
Telephone	1300 669 868
Email	enquiries@power10gases.com.au
Website	http://www.power10gases.com.au/

# 1.4 Emergency telephone numbers

Emergency PoisonsInformation Centre

1300 669 868 13 11 26

# 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

# **Physical Hazards**

Gases Under Pressure: Compressed gas

## **Health Hazards**

Not classified as a Health Hazard

## **Environmental Hazards**

Not classified as an Environmental Hazard

## 2.2 GHS Label elements

Signal word WARNING





Hazard statements H280

Contains gas under pressure; may explode if heated.

## **Prevention statements** None allocated.

## **Response statements**

None allocated.

## Storage statements

P410 + P403

Protect from sunlight. Store in a well-ventilated place.

## Disposal statements

None allocated.

# 2.3 Other hazards

No information provided.

# 3. COMPOSITION/ INFORMATION ON INGREDIENTS

## 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
NITROGEN	7727-37-9	231-783-9	100%

# 4. FIRST AID MEASURES

# 4.1 Description of first aid measures

Eye	Adverse effects not expected from this product.
Inhalation	If inhaled, remove from contaminated area. To protect rescuer, use an Air-line respirator or Self Contained Breathing Apparatus (SCBA). Apply artificial respiration if not breathing. Give oxygen if available. For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor.
Skin	Adverse effects not expected from this product.
Ingestion	Ingestion is not considered a potential route of exposure.
First aid facilities	None allocated.

## 4.2 Most important symptoms and effects, both acute and delayed

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility / consciousness. Victim may not be aware of asphyxiation.

## 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

# 5. FIRE FIGHTING MEASURES

## 5.1 Extinguishing media

Use water fog to cool containers from protected area.

## 5.2 Special hazards arising from the substance or mixture

Non flammable.

## 5.3 Advice for firefighters

Temperatures in a fire may cause cylinders to rupture. Cool cylinders or containers exposed to fire by applying water from a protected location. Remove cool cylinders from the path of the fire. Evacuate the area if unable to keep cylinders cool. Do not approach cylinders or containers suspected of being hot.

## 5.4 Hazchem code

2T

- 2 Fine Water Spray.
- T Wear full fire kit and breathing apparatus. Dilute spill and run-off.

# 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

If the cylinder is leaking, evacuate area of personnel. Inform manufacturer/supplier of leak. Use Personal Protective Equipment (PPE) as detailed in Section 8 of the SDS.

# 6.2 Environmental precautions

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

#### 6.3 Methods of cleaning up

Carefully move material to a well ventilated remote area, then allow to discharge if safe to do so. Do not attempt to repair leaking valve or cylinder safety devices.

#### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

# 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Use of safe work practices are recommended to avoid inhalation. Do not drag, drop, slide or roll cylinders. The uncontrolled release of a gas under pressure may cause physical harm. Use a suitable hand truck for cylinder movement.

#### 7.2 Conditions for safe storage, including any incompatibilities

Do not store near incompatible materials. Cylinders should be stored below 65°C in a secure area, upright and restrained to prevent cylinders from falling. Cylinders should also be stored in a dry, well ventilated area constructed of non-combustible material with firm level floor (preferably concrete), away from areas of heavy traffic and emergency exits.

#### 7.3 Specific end uses

No information provided.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters

#### Exposure standards

Ingredient	Reference	TWA		STEL	
ingreatent	Kelelence		mg/m³	ppm	mg/m³
Nitrogen	SWA [AUS]		Asph	yxiant	

#### **Biological limits**

No biological limit values have been entered for this product.

## 8.2 Exposure controls

**Engineering controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended.

#### PPE

Eye / Face	Wear safety glasses.
Hands	Wear leather gloves.
Body	Wear safety boots.
Respiratory	Where an inhalation risk exists, wear Self Contained Breathing Apparatus (SCBA) or an Air-line respirator.



# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

Appearance	COLOURLESS GAS
Odour	ODOURLESS
Flammability	NON FLAMMABLE
Flash point	NOT RELEVANT
Boiling point	NOT AVAILABLE
Melting point	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE
рН	NOT AVAILABLE
Vapour density	NOT AVAILABLE
Solubility (water)	NOT AVAILABLE

## 9.1 Information on basic physical and chemical properties

Vapour pressure	NOT AVAILABLE
Upper explosion limit	NOT RELEVANT
Lower explosion limit	NOT RELEVANT
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT AVAILABLE
9.2 Other information	
% Volatiles	100 %

# **10. STABILITY AND REACTIVITY**

#### 10.1 Reactivity

Unreactive under normal conditions.

#### 10.2 Chemical stability

Stable under recommended conditions of storage.

## 10.3 Possibility of hazardous reactions

Polymerization will not occur.

#### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

#### 10.5 Incompatible materials

Compatible with most commonly used materials. Avoid heating cylinders.

#### **10.6 Hazardous decomposition products**

This material will not decompose to form hazardous products other than that already present.

# **11. TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
Skin	Not classified as a skin irritant.
Eye	Not classified as an eye irritant.
Sensitisation	Not classified as causing skin or respiratory sensitisation.
Mutagenicity	Not classified as a mutagen.
Carcinogenicity	Not classified as a carcinogen.
Reproductive	Not classified as a reproductive toxin.
STOT - single exposure	Asphyxiant. Effects are proportional to oxygen displacement. Over exposure may result in dizziness, drowsiness, weakness, fatigue, breathing difficulties and unconsciousness.
STOT - repeated exposure	Not classified as causing organ damage from repeated exposure.
Aspiration	Not classified as causing aspiration.

# **12. ECOLOGICAL INFORMATION**

### 12.1 Toxicity

No ecological damage caused by this product. Nitrogen is the major component of the atmosphere (78 % v/v). It is a fairly unreactive gas and will not contribute to ozone depletion or global warming. If released to soil or water, nitrogen will quickly disperse to the atmosphere. Not toxic to plants or animals except at extremely high (asphyxiating) levels.

#### 12.2 Persistence and degradability

Nitrogen occurs naturally in the atmosphere. The gas will be dissipated rapidly in well-ventilated areas.



### 12.3 Bioaccumulative potential

Not applicable.

## 12.4 Mobility in soil

The substance is a gas, not applicable.

#### 12.5 Other adverse effects

No information provided.

# 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste disposalCylinders should be returned to the manufacturer or supplier for disposal of contents.LegislationDispose of in accordance with relevant local legislation.

# **14. TRANSPORT INFORMATION**

# CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	1066	1066	1066
14.2 Proper Shipping Name	NITROGEN, COMPRESSED	NITROGEN, COMPRESSED	NITROGEN, COMPRESSED
14.3 Transport hazard class	2.2	2.2	2.2
14.4 Packing Group	None allocated.	None allocated.	None allocated.

## 14.5 Environmental hazards

No information provided.

# 14.6 Special precautions for user

Hazchem code	2T
GTEPG	2C1
EmS	F-C, S-V
Other information	Ensure cylinder is separated from driver and that outlet of relief device is not obstructed. Refer to Commonwealth, State and Territory Dangerous Goods Legislation which contain requirements which affect gas storage and transport.

# **15. REGULATORY INFORMATION**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Poison schedule** A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

#### Inventory listings AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals) All components are listed on AIIC, or are exempt.

# **16. OTHER INFORMATION**



Additional information	The storage of significant quantities of gas cylinders must comply with AS4332 The storage and handling of gases in cylinders.		
		DN METHOD: Gas regulator of suitable pressure and flow rating fitted to cylinder or n low pressure gas distribution to equipment.	
	PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this report is provided as a gui only. Factors such as form of product, method of application, working environment, quantity use product concentration and the availability of engineering controls should be considered before fin selection of personal protective equipment is made.		
	It should be including: fo measures; p prepare a re	FECTS FROM EXPOSURE: e noted that the effects from exposure to this product will depend on several factors rm of product; frequency and duration of use; quantity used; effectiveness of control protective equipment used and method of application. Given that it is impractical to eport which would encompass all possible scenarios, it is anticipated that users will isks and apply control methods where appropriate.	
Abbreviations	ACGIH CAS #	American Conference of Governmental Industrial Hygienists Chemical Abstract Service number - used to uniquely identify chemical compounds	
	CNS	Central Nervous System	
	EC No.	EC No - European Community Number	
	EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous	
	GHS	Goods) Globally Harmonized System	
	GTEPG	Group Text Emergency Procedure Guide	
	IARC	International Agency for Research on Cancer	
	LC50	Lethal Concentration, 50% / Median Lethal Concentration	
	LD50	Lethal Dose, 50% / Median Lethal Dose	
	mg/m <sup>3</sup>	Milligrams per Cubic Metre	
	OEL	Occupational Exposure Limit	
	рН	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly	
	P	alkaline).	
	ppm	Parts Per Million	
	STEL	Short-Term Exposure Limit	
	STOT-RE	Specific target organ toxicity (repeated exposure)	
	STOT-SE	Specific target organ toxicity (single exposure)	
	SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons	
	SWA	Safe Work Australia	
	TLV	Threshold Limit Value	
	TWA	Time Weighted Average	
Report status		ent has been compiled by RMT on behalf of the manufacturer, importer or supplier of the serves as their Safety Data Sheet ('SDS').	
	manufacture the current s at the time of	on information concerning the product which has been provided to RMT by the r, importer or supplier or obtained from third party sources and is believed to represent state of knowledge as to the appropriate safety and handling precautions for the product of issue. Further clarification regarding any aspect of the product should be obtained the manufacturer, importer or supplier.	
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