

Nitrogen

100% AUSTRALIAN

Section 1: IDENTIFICATION of the MATERIAL and SUPPLIER

GHS Product Identifier Nitrogen

Product Name: Nitrogen, compressed

Chemical Name: Nitrogen

Synonym(s): NITROGEN; DRY NITROGEN; FOOD GRADE NITROGEN

Uses: Inert Gas blanketing, Industrial Applications, Pneumatic Equipment, Tyre Inflation,

Dispensing Wine and Non-Sparkling Cider.

Supplier Name: Speed Gas Pty Ltd

Address: 49 Chard Road, Brookvale, NSW 2100 Telephone: 1300 GAS NOW, 02 9907 7999

Fax: 02 9907 7666

Emergency: 24hr EMERGENCY TELEPHONE (Australia Only) 1300 994 556

Emergency: DIAL 000

Website: <u>www.speedgas.com.au</u>

Section 2: HAZARD(S) IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA CLASSIFIED AS DANGEROUS GOODS BY THE CRITERIA OF THE ADG CODE

GHS Classification: Gases Under Pressure: Compressed Gas

Label Elements:

Signal Word: WARNING

Pictogram(s):



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

Other Hazards: Asphyxiant. In addition to any other important health or physical hazards, this

product may displace oxygen and cause rapid suffocation.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
NITROGEN	7727-37-9	231-783-9	>99%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4: FIRST AID MEASURES

Description of First Aid Measures

Eyes: Adverse effects not expected from this product.

Inhaled: Remove from exposure, but avoid becoming a casualty. Apply artificial respiration

if not breathing, preferably using an automated oxygen resuscitator. Rest and keep warm. Obtain medical attention. For advice contact Poisons Information Centre **Ph:**

13 11 26 or a doctor.

Skin: Not applicable.

Ingestion: Ingestion is not considered a potential route of exposure.

First Aid Facilities No information provided

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.

Immediate medical attention and special treatment needed.

Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Extinguishing Media: Use water fog to cool containers from protected area.

Special hazards arising from the substance or mixture: Non Flammable.

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.

Hazchem Code: 2T

2 - Fine Water Spray

T – Wear full fire kit and breathing apparatus. Dilute spill and run off.



Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.

Non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing gas. Provide adequate ventilation.

Inform manufacturer/supplier of leak. Use Personal Protective Equipment (PPE) as detailed in Section 8 of the SDS.

Environmental Precautions:

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

Methods of cleaning up:

Carefully move to a well ventilated area. Allow gas to escape to atmosphere, preferably in an open remote location. Do not attempt to repair leaking valve or cylinder safety devices.

Reference to other sections:

See Section 8 for Exposure Controls and Section 13 for disposal considerations

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling.

Use safe work practices to avoid inhalation. Use appropriate personal protective equipment (see Section 8). Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement. Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use equipment rated for cylinder pressure. Close valve after each use and when empty. The uncontrolled release of a gas under pressure may cause physical harm.

Conditions for safe storage, including any incompatibilities.

Store cylinders below 45°C upright in a secure enclosure, preferably outside of buildings, protected from direct sunlight. Cylinders should also be stored in a dry, well ventilated area constructed of non-combustible material with firm level floor (preferably concrete). Secure cylinders by chains or similar device to prevent falling over. Keep away from flammable or combustible materials. Keep away from vehicular traffic and other thoroughfares.

Specific end use(s): No information provided.



8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters.

Exposure Standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Argon	SWA (Aus)	Asphyxiant			

Biological limits: No biological limit values have been entered for this product.

Exposure Controls.

Engineering Controls Provide suitable ventilation to minimise or eliminate exposure. Confined areas (e.g.

tanks) should be adequately ventilated or gas tested.

PPE

Eye/Face Wear Safety Glasses

Hands Chemical-resistant, impervious gloves complying with an approved standard

should be worn.

Body Appropriate footwear should be selected based on the task being performed and

the risks involved and should be approved by a specialist before handling this

product.

Respiratory Use a properly fitted, air-purifying or air-fed respirator complying with an

approved standard if a risk assessment indicates this is necessary.







Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties.

Appearance: Colourless gas Odourless Odour: Not Flammable. Flammability: Not Relevant Flash Point: **Boiling Point:** -195.8°C -210°C Melting Point: Not Relevant **Evaporation Rate:** Not Relevant. 0.967 (Air = 1)

pH: Not Relevant.

Vapour Density: 0.967 (Air = 1)

Specific gravity: Not applicable.

Solubility in Water 0.0149 cm³/cm³

Vapour Pressure: Not available

Upper explosion limit: Not Relevant

Lower explosion limit: Not Relevant

Partition Coefficient: Not available



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Auto-Ignition Temperature: Not available
Decomposition Temperature: Not available
Viscosity Not available
Explosive Properties Not available
Oxidising Properties Not available
Odour Threshold Not available

Other Information

Cylinder Pressure (when full): 13000 kPa to 25000 kPa @ 15°C

Volatiles: 100%

Section 10: STABILITY AND REACTIVITY

Reactivity.

Unreactive under normal conditions.

Chemical Stability.

Stable under recommended conditions of storage.

Possibility of Hazardous Reactions.

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid.

Avoid shock, friction, heavy impact and heat.

Incompatible Materials.

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

Hazardous Decomposition Products.

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

Section 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects.

Acute Toxicity: Swallowed: No liquid phase.

Skin: Not irritating to the skin.

Eyes: Not irritating to the eye.

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.



Section 12: ECOLOGICAL INFORMATION

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.

Persistence and Degradability. Not available. Bioaccumulative Potential. Not available.

Mobility in Soil No information provided
Other Adverse Effects No information provided.

Section 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste disposal Cylinders should be returned to the manufacturer or supplier for disposal of

contents.

Legislation Disposal of this product, solutions and any by-products should at all times comply

with the requirements of environmental protection and waste disposal legislation

and any regional local authority requirements.

Section 14: TRANSPORT INFORMATION

CLASSIFIED AS DANGEROUS GOODS BY THE CRITERIA OF THE ADG CODE



	LAND TRANSPORT	SEA TRANSPORT	AIR TRANSPORT
	(ADG)	(IMDG / IMO)	(IATA / ICAO)
UN Number	1066	1066	1066
Proper Shipping	Nitrogen Compressed	Nitrogen Compressed	Nitrogen Compressed
Name			
Transport Hazard Class	2.2	2.2	2.2
Packing Group	None Allocated	None Allocated	None Allocated

Environmental Hazards No information provided

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 relief device is not

obstructed.



Section 15: REGULATORY INFORMATION

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.

The classifications and phrases listed below are based on the Approved Criteria for

Classifying Hazardous Substances [NOHSC: 1008(2004)].

Hazard Codes: None Allocated
Risk Phrases: None Allocated
Safety Phrases: None Allocated

Inventory Listing(s): AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed on AICS, or are exempt.

Section 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. When using this gas/gas mixture for welding, cutting and associated processes, additional hazards may be generated by the process such as radiation, noise and fume. Risk assessments should be made

for each activity to identify and quantify the individual hazards involved.

APPLICATION METHOD Gas regulator of suitable pressure and flow rating fitted to cylinder or manifold

with low pressure gas distribution to equipment.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES

The recommendation for protective equipment contained within this report is provided as a guide only. Factors

such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered

before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations:

ACGIH American Conference of Governmental Industrial Hygienists

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)



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GHS Globally Harmonised 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/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

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

[End of SDS]

