NITROGEN

SUPPLIER DETAILS

Supplier Name:	Renegade Gas (Pty) Ltd T/A Supagas (NSW) & Supagas (QLD)
Head Office Address:	5 Benson Road, Ingleburn, 2565
Telephone:	(02) 8788 4444
Fax:	(02) 8788 4445
Emergency:	24hr EMERGENCY TELEPHONE No. 1300 651 106
EMERGENCY SERVICES:	DIAL 000
Website:	www.supagas.net.au

HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE.

COMPOSITION / INFORMATION ON INGREDIENTS

Product Name:	Nitrogen, compressed
Chemical Name:	Nitrogen
Manufacturer's Code:	
UN Number:	1066
DG Class:	2.2 Non-flammable gas, non-toxic gas
Packaging Group:	Not applicable
Subsidiary Risk(s):	None
Hazchem Code:	2 (T)
EPG No:	2C1
Poisons Schedule:	None assigned
Uses:	As an inert gas blanket, source of inert, pressurised gas

PHYSICAL DESCRIPTION & PROPERTIES

Appearance:	Colourless gas, odourless Very slightly soluble in water
Boiling Point: -195.8	-195.8°C (°C at 101.32 kPa):
Vapour Pressure:	Not applicable
Volatiles:	100%
Evaporation Rate:	Immediate
Vapour Density:	0.906 (Air = 1) (0°C, 101.3 kPa)
Weight per ml:	Not applicable
Flash Point:	None
Flammability Limits:	None
Auto-Ignition Temperature:	No data found

OTHER PROPERTIES

Permanent Gas

Material compatibility:	Inert non-corrosive

INGREDIENTS

Name:	Nitrogen
CAS:	(7727-37-9)
Proportion:	100% Industrial, Food (99.9% minimum)

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Acute: Swallowed: No liquid phase, unlikely route for a gas
Skin: Not irritating to skin
Eyes: Not irritating to eye
Possible physical damage on exposure to high pressure gas stream
Inhaled: Simple asphyxiant. May replace oxygen in the atmosphere. Symptoms of approaching asphyxia include accelerated pulse rate, increase in the rate and volume of respiration, decreased ability to think clearly, inattention and loss of muscle coordination. At only 10-14% oxygen, judgement becomes faulty; there may be an inability to feel pain, rapid fatigue. At only 10% oxygen there may be nausea and vomiting, and an inability to move. Below 6% oxygen, breathing is likely to be in gasps, with risk of convulsions. Breathing a pure nitrogen atmosphere may result in immediate loss of consciousness and death within a few minutes.

Chronic: Breathing atmosphere of very low oxygen (less than 10%) may result in permanent brain damage.

LD50: No data found

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Ph: 13 11 26
Swallowed: Not applicable
Skin: Not applicable
Eyes: Not applicable
Inhaled: Avoid becoming a casualty – use self-contained. Breathing apparatus to rescue victims of asphyxia from enclosed situation. Remove from exposure, rest and keep warm. If breathing has stopped apply artificial respiration. Medically trained personnel may need to administer oxygen.

NITROGEN continued

FIRST AID FACILITIES

Recommended: Oxygen resuscitation equipment.
Self-contained breathing apparatus, and
trained personnel, for rescue operations.
Advice to Doctor: Treatment for asphyxiation.

PRECAUTIONS FOR USE

EXPOSURE LIMITS

National Occupational Health & Safety Commission (NOHSC) – (Worksafe Australia)
TLV-TWA: None assigned by NOHSC
Simple asphyxiant
TLV-STEL: None assigned by NOHSC
Simple asphyxiant
Engineering Controls: Ensure adequate ventilation (same as outdoors) when using. Consider local mechanical exhaust or forced ventilation if working in enclosed spaces.
Personal Protection: Do not breathe high vapour levels. Personal Protection to be selected from those recommended below, as appropriate to mode of use, quality handled and degree of hazard:
• Self-Contained Breathing Apparatus
• Positive pressure or Air-fed hood
Flammability: Not Flammable

SAFE HANDLING AND STORAGE

STORAGE AND TRANSPORT

Storage Temperature:	Room Temperature
UN Class:	2.2 Non Flammable, Non-toxic gas
Packaging Group:	Not applicable
UN Number:	1066 Nitrogen, compressed
EPG Number:	2C1
Correct Shipping Name:	Nitrogen, compressed

Observe requirements of The Australian Code for the Transport of Dangerous Goods by Road and Rail. Observe the requirements of State Dangerous Goods (Storage and Handling) Regulations.

STORAGE ADVICE

Store cylinders upright in an enclosure, preferably outside of buildings, protected from direct sunlight. Secure cylinders by chains or similar device to prevent falling over. Store cylinders below 45°C. Keep away from flammable or combustible materials. Keep away from vehicular traffic and other thoroughfares. Protect from physical damage. Protect regulators and other fittings from impact.

SPILLS AND DISPOSAL

Disposal of small spillage only.
CAUTION: Before dealing with spillage take the necessary protective measures, inform others to keep at a safe distance. Contact supplier for specific assistance. Allow gas to escape to atmosphere, preferably in an open remote location. Prevent vented gas from re-entering ventilation intakes or similar.

FIRE/EXPLOSION HAZARD

Not a fire hazard. Non-flammable gas, may extinguish fire. Heat from a fire may cause cylinder to rupture. Cool cylinders with water, spray from a protected place. Do not approach cylinders that may be hot. Evacuate if cylinders cannot be cooled.

DECOMPOSITION PRODUCTS

Nitrogen
In case of small fire/explosion use: Water

In case of major emergency:

Hazchem Code:	2(T)
Extinguishant:	Water fog or fine water spray
Danger of violent reaction or explosion?	No
Protective Clothing:	Breathing apparatus and protective gloves for fire only
Appropriate Measures:	Dilute
Evacuate?	No

OTHER INFORMATION

Prevent spillage from leaking into enclosed spaces.

Report Reviewed: 26 May 2011