

HELIUM IN NITROGEN BASED MIXTURE

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
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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:	20% Helium in Nitrogen Gas Mixture
Manufacturer's Code:	TBA
UN Number:	1956
DG Class:	2.2
Packaging Group:	None Allocated
Subsidiary Risk(s):	None Allocated
Hazchem Code:	2T
EPG No:	2C1
Uses:	Industrial Applications (Leak Detection)

PHYSICAL DESCRIPTION & PROPERTIES

Appearance:	Colourless gas, odourless.
Solubility (water):	Insoluble
Boiling Point:	Not available
Vapour Pressure:	Not available
Volatiles:	Not available
Evaporation Rate:	Not available
Vapour Density:	Not available
Weight per ml:	Not available
Flash Point:	Not applicable
Flammability Limits:	Not flammable
Auto-Ignition Temperature:	Not applicable
Cylinder Pressure when full @15°C:	20,000 KPA
Cylinder Colour:	Brown shoulder and Pewter body

OTHER PROPERTIES

Permanent Gas
Material compatibility: Inert non-corrosive

INGREDIENTS

Name:	Helium	Nitrogen
CAS:	(7440-59-7)	(7727-37-9)
Proportion:	71%	24%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

A simple asphyxiant.

Acute: Swallowed: Not applicable.

Skin: Not irritating to skin.

Eyes: Not irritating to eyes. 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, judgment becomes faulty; there may be an inability to feel pain, rapid fatigue. At oxygen levels below 10%, there may be nausea and vomiting, and an inability to move. Below 6% oxygen, breathing is likely to be in gaps, with risk of convulsions. Inhalation of this mixture containing no oxygen may result in unconsciousness from the first breath and death will follow in a few minutes.

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

LC50 (Inhalation): No data available.

FIRST AID

Eye: Exposure is considered unlikely.

Skin: Exposure is considered unlikely. Skin irritation is not anticipated.

Inhalation: If inhaled, remove from contaminated area. To protect rescuer, use an Air-line respirator or Self Contained Breathing Apparatus (SCBA). Be aware of possible explosive atmospheres. Apply artificial respiration if not breathing. Medically trained personnel may need to administer oxygen if required.

Ingestion: For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). Due to product form and application, ingestion is considered unlikely.

HELIUM IN NITROGEN BASED MIXTURE continued

FIRST AID FACILITIES

Recommended: Oxygen resuscitation equipment. Self-contained breathing apparatus, and trained personnel, for rescue operations.

Advice to Doctor: Treatment for asphyxiation. Contact Poisons Information Centre.

PRECAUTIONS FOR USE

EXPOSURE LIMITS

National Occupational Health & Safety Commission (NOHSC) – (Worksafe Australia)

TLV-TWA: None assigned by NOHSC. Designated simple asphyxiant. Do not enter atmospheres containing less than 18% oxygen.

TLV-STEL: None assigned by NOHSC.

Engineering Controls: Ensure adequate ventilation (same as outdoors) at all times. 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, quantity 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:	1956 Compressed Gas, N.O.S.
EPG Number:	2C1
Correct Shipping Name:	Compressed Gas, N.O.S.

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

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

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 will not support combustion and 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

Helium in Nitrogen Gas Mixture (Helium 20%; Nitrogen 80%)
In case of small fire/explosion use: Water Spray (Fog) to cool containers from protected areas.

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

Do not use leaking or damaged cylinders, regulators and fittings. Do not use oil or grease on cylinders or fittings. Always use mechanical handling and/or lifting devices. Open cylinders slowly to avoid pressure shocks on downstream equipment. Always use gas pressure regulators properly matched to downstream equipment. Prevent leaking gas from entering drains or sewers.

Report Reviewed: 13 August 2012