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SpeedTRACE®

Safety Data Sheet

Section 1: IDENTIFICATION of the MATERIAL and SUPPLIER

GHS Product Identifier Product Name: Chemical Name: Synonym(s): Uses:

Supplier Name: Address: Telephone: Fax: **Emergency: Emergency:** Website: Nitrogen / Hydrogen Mixture SpeedTRACE[®] Nitrogen / Hydrogen Mixture SpeedTRACE[®] Industrial applications. Leak testing

Speed Gas Pty Ltd 49 Chard Road, Brookvale, NSW 2100 1300 GAS NOW, 02 9907 7999 02 9907 7666 24hr EMERGENCY TELEPHONE No. (Australia Only) 0412 010 299 DIAL 000 www.speedgas.com.au

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: Label Elements: Signal Word: Pictogram(s): Gases Under Pressure: Compressed Gas

WARNING



Hazard Statements:H280 – Contains gas under pressure; May explode if heated.Prevention Statements:None allocatedResponse Statements:None allocatedStorage Statements:P410 + P403Disposal Statements:P410 + P403Other Hazards:None allocatedAsphyxiant. 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	Remainder
HYDROGEN	1333-74-0	215-605-7	≤5%

Section 4: FIRST AID MEASURES

Description of First Aic Eyes:	<u>l Measures</u> Not applicable.	
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.

- <u>Special hazards arising from the substance or mixture:</u> Non-Flammable. This material will not evolve hazardous products on decomposition.
- <u>Advice for Firefighters:</u> 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:
 2TE

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

 E Evacuation of people in and around the immediate vicinity of the incident should be considered.



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. 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.
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.

<u>Specific end use(s):</u> No information provided.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters. Exposure Standards

Exposure etandarde					
Ingredient	Reference	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Hydrogen	SWA (Aus)		Simple A	Asphyxiant	
Nitrogen	SWA (Aus)		Simple A	Asphyxiant	

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



Exposure Controls. Engineering Controls	Avoid inhalation. Provide suitable ventilation to minimise or eliminate exposure. Maintain vapour levels below the recommended exposure standard.
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	Where an inhalation risk exists 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.

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Appearance:	Colourless gas
Odour:	Odourless
Flammability:	Not Flammable
Flash Point:	Not Relevant
Boiling Point:	Not Relevant
Melting Point:	Not Relevant
Evaporation Rate:	Not Applicable
pH:	Not Applicable
Specific gravity:	Not Applicable
Solubility in Water	Insoluble
Vapour Pressure:	Not Applicable
Upper explosion limit:	Not Relevant
Lower explosion limit:	Not Relevant
Partition Coefficient:	Not Available
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	
	0.01 + 0.07 (A)

Vapour Density: Volatiles: 0.91 to 0.97 (Air=1) 100%



Section 10: STABILITY AND REACTIVITY

Reactivity.

No specific test data related to reactivity available for this product or its ingredients. Carefully review all information provided in sections below.

<u>Chemical Stability.</u> Stable under recommended conditions of storage.

<u>Possibility of Hazardous Reactions.</u> Under normal conditions of storage and use, hazardous reactions will not occur.

<u>Conditions to Avoid.</u> Avoid shock, friction, heavy impact, heat, sparks, open flames and other ignition sources.

<u>Incompatible Materials.</u> Compatible with most commonly used materials.

<u>Hazardous Decomposition Products.</u> This material will not decompose to form hazardous products other than that already present.

Section 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects.

Acute Toxicity:	Based on available data, the classification criteria are not met.
Skin:	Not irritating to the skin.
Eyes:	Not irritating to the eye.
Sensitisation:	Not classified as causing skin or respiratory sensitisation.
Mutagenicity:	No significant ingredient is classified as a mutagen.
Carcinogenicity:	No significant ingredient is classified as a carcinogen.
Reproductive:	No significant ingredient is 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: Aspiration:	Not classified as causing organ damage from repeated exposure. Not applicable to gases and gas mixtures.

Section 12: ECOLOGICAL INFORMATION

This product is biodegradable. It is biologically inert so will not be harmful to flora or fauna, soil or water and will not cause long term problems. Not expected to be an environmental hazard.

Toxicity. Persistence and Degradability.

Bioaccumulative Potential. Mobility in Soil Other Adverse Effects No ecological damage caused by this product. The product is expected to biodegrade and is not expected to persist for long periods in an aquatic environment. This product does not bioaccumulate. The substance is a gas, not applicable Product is not harmful to the environment.



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	1956	1956	1956
Proper Shipping	COMPRESSED GAS, N.O.S.	COMPRESSED GAS, N.O.S.	COMPRESSED GAS,
Name	(Contains Nitrogen)	(Contains Nitrogen)	N.O.S.
			(Contains Nitrogen)
Transport Hazard	2.2	2.2	2.2
Class			
Packing Group	None Allocated	None Allocated	None Allocated

Environmental Hazards.

No information provided

Special Precautions for User.	
Hazchem Code	2TE
GTEPG	2C1
EMS	F-C,

Other Information: Ensure cylinder is separated from driver and that outlet relief device is not obstructed. Refer to Commonwealth, State and Territory Dangerous Goods Legislation which contain requirements which affect gas storage and transport.

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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:	(GOSINF). Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.
Hazard Codes: Risk Phrases: Safety Phrases: Inventory Listing(s):	The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)]. None Allocated None Allocated 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.

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 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 Goods)
	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
	рН	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]

