

MATERIAL SAFETY DATA SHEET

Nitrogen

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Nitrogen	Other Names	None
Recommended Use	Fire protection agent for total flooding of rooms containing electrical equipment such as computer rooms as well as flammable liquid storage and Class A risks such as records rooms and libraries.		
Supplier Name	Wormald	Address	Unit 1, 2-8 South Street Rydalmere, NSW 2116 AUSTRALIA
Telephone No.	133 166	Emergency Telephone No.	133 166 or 000
		Date Prepared	February 2008

SECTION 2: HAZARDS IDENTIFICATION

Hazard Classification	DANGEROUS GOODS, NON HAZARDOUS SUBSTANCE		
Safety Phrase(s)	Not available	Risk Phrase(s)	Not available

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE		
Chemical Identity of the Pure Substance	Common Name / Synonyms	CAS Number
N	Nitrogen	7727-37-9
MIXTURE		
Chemical Identity of Ingredients	Proportion of Ingredients	CAS Number
Not applicable	Not applicable	Not applicable

SECTION 4: FIRST AID MEASURES

Description of Necessary First Aid Measures	If overexposed to gas, move person to fresh air.
Medical Attention and Special Treatment	Not available
Aggravated Medical Conditions Caused by Exposure	Not available

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media	This is an extinguishing agent	Hazards From Combustion Products	None
Special Protective Precautions and Equipment for Fire Fighters	None	Hazchem Code	2T

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Not available
Methods and Materials for Containment and Clean Up	Not applicable – Nitrogen is a permanent gas.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling	Normal precautions for handling high pressure gas cylinders.
Conditions for Safe Storage, Including any Incompatibilities	Store cylinders with restraints to reduce possibility of rupture.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards	SUBSTANCE	ES-TWA		ES-STEL	
		ppm	mg/m ³	ppm	mg/m ³
	Nitrogen	(Asphyxiant)		(Asphyxiant)	
Engineering Controls	Keep cylinder in a well ventilated area.	Biological Limit Controls		Not available	
Personal Protection Equipment	Safety glasses or chemical goggles, gloves				

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Appearance	Colourless	Odour	Odourless
pH	Not available	Vapour Pressure	Not applicable
Vapour Density (air = 1)	0.98	Boiling Point / Range	-195.8°C
Freezing / Melting Point (specify)	Not available	Solubility in Water	0.0235 m ³ /kg
Specific Gravity or Density	0.967	Flash Point	None
Upper and Lower Flammable (explosive) Limits in Air	Not explosive	Ignition Temperature	Does not ignite

SECTION 10: STABILITY AND REACTIVITY			
Chemical Stability	Stable under normal conditions	Conditions to Avoid	Heat or water will vigorously vaporise liquid nitrogen.
Incompatible Materials	Not available	Hazardous Decomposition Products	Not available
Hazardous Reactions	None		

SECTION 11: TOXICOLOGICAL INFORMATION			
Health Effects From the Likely Routes of Exposure	EYE CONTACT	Non-irritating gas.	
	SKIN CONTACT	Non-irritating gas.	
	INHALATION	An asphyxiant due to the exclusion of oxygen.	
	INGESTION	Not a probable route of exposure, as Nitrogen is a gas.	
Acute Overexposure	See above		
Chronic Overexposure	Dizziness, shortness of breath, unconsciousness, or suffocation may occur.		

SECTION 12: ECOLOGICAL INFORMATION			
Ecotoxicity	Not available	Persistence and Degradability	Not available
Mobility	Not available	Environmental Fate (Exposure)	Not available
Bioaccumulative Potential	Not available		

SECTION 13: DISPOSAL CONSIDERATIONS	
Disposal Methods and Containers	If in cylinders, dispose of in accordance to local, state and Commonwealth regulations.
Special Precautions for Landfill or Incineration	None

SECTION 14: TRANSPORT INFORMATION			
UN Number	UN 1066	UN Proper Shipping Name	Nitrogen
Class and Subsidiary Risk	D. G. Class 2.2	Packing Group	Packing Group III
Special Precautions for User	None	Hazchem Code	2T

SECTION 15: REGULATORY INFORMATION	
The regulatory status of a material (including its ingredients) under relevant Australian health, safety and environmental legislation.	Not available

SECTION 16: OTHER INFORMATION	
Date of Preparation	February 2008

END OF MSDS