

# SAFETY DATA SHEET

SDS No: 10831001

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

#### 1.1 Product identifier

#### Product name NITROGEN COMPRESSED

Synonyms

10831001 - SDS NUMBER • 221110,221122,221152, 224123,224150, 220110,220123,220150 - PRODUCT CODES • COREGAS NITROGEN COMPRESSED • NITROGEN (AVIATION GRADE) • NITROGEN 3.0 •

# 1.2 Uses and uses advised against

Uses INDUSTRIAL APPLICATIONS

#### **1.3 Details of the supplier of the product**

Supplier nameCOREGAS NZAddress141 Roscommon Road, Manukau, Auckland, NEW ZEALANDTelephone+64 508 COREGAS (+64 508 267 342)Websitehttp://www.coregas.co.nz/

NITROGEN 4.0 • NITROGEN 5.0

#### 1.4 Emergency telephone numbers

Emergency

+64 508 COREGAS (+64 508 267 342)

# 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

HAZARDOUS ACCORDING TO NZ ENVIRONMENTAL PROTECTION AUTHORITY CRITERIA

#### **Physical Hazards**

Gases Under Pressure: Compressed gas

#### **Health Hazards**

Not classified as a Health Hazard

#### **Environmental Hazards**

Not classified as an Environmental Hazard

#### 2.2 GHS Label elements

Signal word WARNING

Pictograms



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.

# ChemAlert.

#### **Disposal statements**

None allocated.

#### 2.3 Other hazards

Asphyxiant. Effects are proportional to oxygen displacement.

# 3. COMPOSITION/ INFORMATION ON INGREDIENTS

#### 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
NITROGEN	7727-37-9	231-783-9	100%

# 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

Eye	Adverse effects not expected from this product.
Inhalation	If inhaled, remove from contaminated area. To protect rescuer, use an Air-line respirator or Self Contained Breathing Apparatus (SCBA). Apply artificial respiration if not breathing. Give oxygen if available.
Skin	Adverse effects not expected from this product.
Ingestion	Ingestion is not considered a potential route of exposure.
First aid facilities	None allocated.

#### 4.2 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.

#### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

# 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Use water fog to cool containers from protected area.

#### 5.2 Special hazards arising from the substance or mixture

Non flammable.

#### 5.3 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.

#### 5.4 Hazchem code

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

# 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

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.

## 6.2 Environmental precautions

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

## 6.3 Methods of cleaning up

Carefully move material to a well ventilated remote area, then allow to discharge if safe to do so. Do not attempt to repair leaking valve or cylinder safety devices.

# ChemAlert.

#### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

# 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Use of safe work practices are recommended to avoid inhalation. Do not drag, drop, slide or roll cylinders. The uncontrolled release of a gas under pressure may cause physical harm. Use a suitable hand truck for cylinder movement.

#### 7.2 Conditions for safe storage, including any incompatibilities

Do not store near incompatible materials. Cylinders should be stored below 65°C in a secure area, upright and restrained to prevent cylinders from falling. Cylinders should also be stored in a dry, well ventilated area constructed of non-combustible material with firm level floor (preferably concrete), away from areas of heavy traffic and emergency exits.

#### 7.3 Specific end uses

No information provided.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters

#### **Exposure standards**

Ingredient	Reference	TWA		STEL	
ingreatent		ppm	mg/m³	ppm	mg/m³
Nitrogen	WES [NZ]	Asphyxiant			

#### **Biological limits**

No biological limit values have been entered for this product.

#### 8.2 Exposure controls

**Engineering controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

#### PPE

Eye / Face	Wear safety glasses.
Hands	Wear leather gloves.
Body	Wear safety boots.
Respiratory	Where an inhalation risk exists, wear Self Contained Breathing Apparatus (SCBA) or an Air-line respirator.



# 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Appearance	COLOURLESS GAS
Odour	ODOURLESS
Flammability	NON FLAMMABLE
Flash point	NOT RELEVANT
Boiling point	-196°C
Melting point	-210°C
Evaporation rate	NOT RELEVANT
рН	NOT RELEVANT
Vapour density	NOT AVAILABLE
Relative density	NOT AVAILABLE
Solubility (water)	INSOLUBLE
Vapour pressure	NOT RELEVANT
Upper explosion limit	NOT RELEVANT

# ChemAlert.

### 9.1 Information on basic physical and chemical properties

Lower explosion limit	NOT RELEVANT
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT AVAILABLE
9.2 Other information	
% Volatiles	100%

# **10. STABILITY AND REACTIVITY**

## 10.1 Reactivity

Unreactive under normal conditions.

## 10.2 Chemical stability

Stable under recommended conditions of storage.

# 10.3 Possibility of hazardous reactions

Polymerization will not occur.

# 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

# 10.5 Incompatible materials

Compatible with most commonly used materials. Avoid heating cylinders.

# 10.6 Hazardous decomposition products

May evolve toxic gases if heated to decomposition.

# 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
Skin	Not classified as a skin irritant.
Eye	Not classified as an eye irritant.
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.

# **12. ECOLOGICAL INFORMATION**

# 12.1 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.

## 12.2 Persistence and degradability

Nitrogen occurs naturally in the atmosphere. The gas will be dissipated rapidly in well-ventilated areas.

# 12.3 Bioaccumulative potential

Not applicable.



#### 12.4 Mobility in soil

The substance is a gas, not applicable.

# 12.5 Other adverse effects

No information provided.

# **13. DISPOSAL CONSIDERATIONS**

# 13.1 Waste treatment methods

Waste disposalCylinders should be returned to the manufacturer or supplier for disposal of contents.LegislationDispose of in accordance with relevant local legislation.

# **14. TRANSPORT INFORMATION**

# CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE: DANGEROUS GOODS 2005; NZS 5433:2012, UN, IMDG OR IATA



	LAND TRANSPORT (NZS 5433)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	1066	1066	1066
14.2 Proper Shipping Name	NITROGEN, COMPRESSED	NITROGEN, COMPRESSED	NITROGEN, COMPRESSED
14.3 Transport hazard class	2.2	2.2	2.2
14.4 Packing Group	None allocated.	None allocated.	None allocated.

14.5 Environmental hazards

No information provided.

#### 14.6 Special precautions for user

 Hazchem code
 2T

 EmS
 F-C, S-V

 Other information
 Ensure cylinder is separated from driver and that outlet of relief device is not obstructed.

# **15. REGULATORY INFORMATION**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture			
Approval code	Not required		
Group standard	Not required		
Inventory listings	<b>NEW ZEALAND: NZIOC (New Zealand Inventory of Chemicals)</b> All components are listed on the NZIoC inventory, or are exempt.		

# **16. OTHER INFORMATION**

Additional information

APPLICATION METHOD: Gas regulator of suitable pressure and flow rating fitted to cylinder or manifold with low pressure gas distribution to equipment.



ACGIH

#### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, 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: form of product; 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.

American Conference of Governmental Industrial Hygienists

#### Abbreviations

	CAS # CCID CNS	Chemical Abstract Service number - used to uniquely identify chemical compounds Chemical Classification and Information Database (HSNO) Central Nervous System		
	EC No. EMS	EC No - European Community Number Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)		
	EPA	Environmental Protection Authority [New Zealand]		
	GHS	Globally Harmonized System		
	HSNO	Hazardous Substances and New Organisms		
	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)		
	TLV	Threshold Limit Value		
	TWA	Time Weighted Average		
Report status	This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').			
	manufacturer the current st at the time c	on information concerning the product which has been provided to RMT by the r, importer or supplier or obtained from third party sources and is believed to represent tate of knowledge as to the appropriate safety and handling precautions for the product of issue. Further clarification regarding any aspect of the product should be obtained the manufacturer, importer or supplier.		
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		[ End of SDS ]		