



Safety Data Sheet

This safety data sheet complies with the requirements of: WHS regulation 2011

Product name INERGEN®

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product name INERGEN®
Product code 430952

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use No information available
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Tyco Fire Protection Products
Level 3, 95 Coventry Street,
Southbank, Australia-Victoria 3006
+613 9313 9711

For further information, please contact

E-mail address psra@tycofp.com

1.4. Emergency telephone number

Emergency Telephone Number 612 9037 2994 (Australia)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Gases Under Pressure	Compressed Gas - (H280)
----------------------	-------------------------

2.2. Label Elements

Product Identifier



Signal Word

WARNING

hazard statements

H280 - Contains gas under pressure; may explode if heated

EUH210 - Safety data sheet available on request

precautionary statements

P410 + P403 - Protect from sunlight. Store in a well-ventilated place

2.3. Other Hazards

No information available

**SECTION 3: Composition/information on ingredients****3.1 Mixtures**

Chemical name	CAS No	weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Carbon Dioxide	124-38-9	< 10%	no data available

Full text of H- and EUH-phrases: see section 16

Section 4: First aid measures**4.1. Description of first aid measures**

Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.)
Skin contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison control centre or physician immediately.

4.2. Most important symptoms and effects, both acute and delayed**Symptoms** Unconsciousness.**4.3. Indication of any immediate medical attention and special treatment needed****Note to doctors** Treat symptomatically.**Section 5: FIRE FIGHTING MEASURES****5.1. Extinguishing media****Suitable Extinguishing Media**

Product is extinguishing agent. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None

5.2. Special hazards arising from the substance or mixture

None known

Hazardous Combustion Products

Carbon oxides. Nitrogen oxides (NOx).

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.



Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions

Ensure adequate ventilation, especially in confined areas.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Pick up and transfer to properly labelled containers.

6.4. Reference to other sections

See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	Australia
Carbon Dioxide 124-38-9	5000 ppm 9000 mg/m ³ 12500 ppm 22500 mg/m ³ 30000 ppm STEL



Product code 430952

/ Product name INERGEN® /

PAGE 4 / 8

	54000 mg/m ³ STEL
--	------------------------------

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Avoid contact with eyes. Tight sealing safety goggles.

Skin and Body Protection Suitable protective clothing.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Compressed Gas	Colour	Colourless
Odour	None		
odour threshold	No data available		

<u>Property</u>	<u>VALUES</u>	<u>Remarks • Method</u>
pH		No data available
Melting point/freezing point		No data available
Boiling point / boiling range	-196 °C	
Flash Point		No data available
Evaporation Rate		No data available
flammability (solid, gas)		No data available
Flammability limit in air		
Upper flammability limit:		No data available
Lower flammability limit:		No data available
Vapour Pressure		No data available
Vapour Density		No data available
Specific gravity		No data available
Water Solubility		No data available
solubility(ies)		No data available
Partition coefficient		No data available
Autoignition Temperature		No data available
Decomposition Temperature		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available
Explosive Properties	No data available	
Oxidising Properties	No data available	
density	0.0014171	

Section 10: Stability and reactivity

10.1. Reactivity



No data available.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

hazardous polymerisation

Hazardous polymerisation does not occur.

Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Strong oxidising agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Product information

INHALATION	In high concentration the gas may cause a suffocation. Victim may not be aware of asphyxiation. In confined or poorly ventilated areas, vapours can readily accumulate and can cause unconsciousness and death.
Eye Contact	Contact with product may cause frostbite.
Skin contact	Contact with product may cause frostbite.
INGESTION	Not an expected route of exposure.
Skin Corrosion/Irritation	No information available.
Serious eye damage/eye irritation	No information available.
sensitisation	No information available.
Germ Cell Mutagenicity	No information available.
carcinogenicity	No information available.
Reproductive Toxicity	Lack of oxygen during pregnancy has produced developmental abnormalities in humans and experimental animals.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.



Product code 430952

/ Product name INERGEN® /

PAGE 6 / 8

Target organ effects	Respiratory System, Central Vascular System (CVS).
Symptoms	Unconsciousness.
Aspiration Hazard	No information available.

Section 12: Ecological information

12.1. Toxicity

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available

Section 13: Disposal considerations

13.1. Waste treatment methods

Waste from Residues/Unused Products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Do not re-use container.

Section 14: Transport information

Note: No information available

IMDG

14.1 UN/ID no	UN1956
14.2 Proper Shipping Name	Compressed gas, n.o.s.
14.3 Hazard class	2.2
14.4 Packing group	NOT REGULATED
Description	UN1956, Compressed gas, n.o.s. (Nitrogen, Argon, Carbon Dioxide), 2.2
14.5 Marine Pollutant	Not Applicable
14.6 Special Provisions	None
EmS-No	F-C, S-V
14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the	No information available

**IBC CODE****RID**

14.1 UN/ID no	UN1956
14.2 Proper Shipping Name	Compressed gas, n.o.s.
14.3 Hazard class	2.2
Labels	2.2 (+13)
14.4 Packing group	NOT REGULATED
Description	UN1956, Compressed gas, n.o.s. (Nitrogen, Argon, Carbon Dioxide), 2.2
14.5 Environmental Hazard	Not Applicable
Classification Code	1A
14.6 Special Provisions	None

ADR

14.1 UN/ID no	UN1956
14.2 Proper Shipping Name	Compressed gas, n.o.s.
14.3 Hazard class	2.2
Labels	2.2
14.4 Packing group	NOT REGULATED
Description	UN1956, Compressed gas, n.o.s. (Nitrogen, Argon, Carbon Dioxide), 2.2, (E)
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None
Classification Code	1A
Tunnel restriction code	(E)

ICAO (air)

14.1 UN/ID no	UN1956
14.2 Proper Shipping Name	Compressed gas, n.o.s.
14.3 Hazard class	2.2
14.4 Packing group	NOT REGULATED
Description	UN1956, Compressed gas, n.o.s. (Nitrogen, Argon, Carbon Dioxide), 2.2
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None

IATA

14.1 UN/ID no	UN1956
14.2 Proper Shipping Name	Compressed gas, n.o.s.
14.3 Hazard class	2.2
14.4 Packing group	NOT REGULATED
Description	UN1956, Compressed gas, n.o.s. (Nitrogen, Argon, Carbon Dioxide), 2.2
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None
ERG Code	2L

Section 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National Regulations****Australia**

See section 8 for national exposure control parameters

carcinogenicity



Product code 430952

/ Product name INERGEN® /

PAGE 8 / 8

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

Revision date 22-Nov-2016

Revision note Not Applicable.

This safety data sheet complies with the requirements of WHS regulation 2011

End of Safety Data Sheet