



## 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** RottGuard Fire Systems Ltd  
Cullen, Co. Cork, Ireland. P51 EV20  
T +353(0)29 76196  
[www.rottguafire.ie](http://www.rottguafire.ie)

For further information, please contact

**E-mail address** [rottguafire@gmail.com](mailto:rottguafire@gmail.com)

#### 1.4. Emergency telephone number

Emergency Telephone Number +353(0)87 751 7900

### 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**

<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.).
<b>Skin contact</b>	Wash skin with soap and water. Get medical attention if irritation develops and persists.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
<b>Ingestion</b>	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 <sup>3</sup> 12500 ppm 22500 mg/m <sup>3</sup> 30000 ppm STEL



Product code 430952

/ Product name INERGEN® /

PAGE 4 / 9

54000 mg/m<sup>3</sup> 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



Product code 430952

/

Product name INERGEN®

/

PAGE 5 / 9

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 7 / 9

**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 9 / 9

**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 26-03-2026

Revision note Not Applicable.

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

End of Safety Data Sheet