



# MATERIAL SAFETY DATA SHEET

## I - Product Identification

### Product Identifier:

{ Nitrogen  
Chemical Name: Nitrogen  
Chemical Family:                      Formula: N<sub>2</sub>

### Product Use:

Used in the application of pressurizing fire extinguishers.

### Manufacturer's Name and Telephone Number:

Flag Fire Equipment Ltd.  
County Road 22 & Patillo Road  
Tecumseh, Ontario N8N 2L9

**Emergency Telephone:                      519-727-6722**

Technical Information:                      519-727-6722

## II - Hazardous Ingredients

Name	%	Cas #	LD <sub>50</sub>	LC <sub>50</sub>
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Other:  
Nitrogen                                      Cas # 7727-37-9

Contents are pressurized to ensure a high velocity. WHMIS Class A.

## III - Physical Data

Physical State	Gas
Odour and Appearance	Colourless and Odourless
Odour Threshold (ppm)	Not Applicable
Vapour Pressure (mm Hg)	Gas
Evaporation Rate	None
Boiling Point (°C)	197°C
Freezing Point (°C)	-210 °C
Vapour Density	0.967
Specific Gravity	Gas
Solubility in Water	Negligible

## IV - Fire and Explosion Data

Flashpoint (°C) and Method:	Non-Applicable
Means of Extinction	None required
Upper Flammable Point	Not Applicable
Lower Flammable Point	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Hazardous Combustion Products	None Known

### Explosion Data

Sensitivity to Impact	Not Applicable
Sensitivity to Static Discharge	Not Applicable

## V - Reactivity Data

† Yes    Chemical Stability  
† No    Incompatibility with other substances

### Conditions to avoid:

Avoid excessively high temperatures (above 52°C).  
Under certain conditions, Nitrogen can react violently with Lithium, Neodymium, Titanium, Ozone.

### Hazardous Decomposition Products

None

## VI - Toxicological Properties

### Route of Entry

z Skin Contact	z Eye Contact	† Inhalation
z Skin Absorption	z Ingestion	

### Effects of Overexposure:

No evidence of adverse effects from available information.

Exposure Limits	Not Available
Irritancy of Product	Not Available
Sensitization to Product	Not Available
Carcinogenicity	None
Teratogenicity	None
Reproductive Toxicity	None
Mutagenicity	None
Synergistic Products	Not Available

## VII - Preventative Measures

Gloves	None Required
Respirator	If working in high concentration levels for extended periods of time, use a NIOSH-approved respirator
Footwear	None required
Clothing	None specified
Eyewear	None Required

### Engineering Controls

Provide a local exhaust ventilation

### Leak and Spill Procedure

Ventilate area.

### Waste Disposal

Slowly release into atmosphere.

Handling Procedures	Use high pressure equipment
Storage Requirements	Store in areas with adequate ventilation

Special shipping information  
Nitrogen cylinders Class 2.2 UN # 1066

## VIII - First Aid Measures

Inhalation:	Remove victim to fresh air. If not breathing, give artificial respiration. Obtain medical attention immediately.
Ingestion:	This product is a gas at normal temperature and pressure.
Eye Contact:	In case of splash contamination, immediately flush eyes thoroughly with water. Obtain medical attention immediately.
Skin Contact:	For exposure to liquid, warm frostbite area with warm water. Obtain medical attention immediately.

## IX - Preparation Date of MSDS

Prepared by Department: Health and Safety  
Date: 06/19/2000

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**MSDS Control # 508-00MS**

NITROGEN