



GASES DATA SHEET: NITROGEN

QUICK IDENTIFIER (In Plant Common Name)

ANSUL®

ANSUL INCORPORATED
 MARINETTE, WI 54143-2542

Nitrogen Data Sheet

Manufacturer's Name:	ANSUL INCORPORATED	Emergency Telephone No.:	CHEMTREC (800) 424-9300 or (703) 527-3887
Address:	One Stanton Street, Marinette, WI 54143-2542	Other Information Calls:	(715) 735-7411
Prepared By:	Safety and Health Department	Date Prepared:	March 31, 1998

SECTION 1 – IDENTITY

Common Name: (used on label) (Trade Name and Synonyms)	Nitrogen	CAS No.:	7727-37-9
Chemical Name:	Nitrogen	Chemical Family:	Gas
Formula:	N ₂		

SECTION 2 – INGREDIENTS

PART A – HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical and common name(s)):	Wt. %	CAS No.	ACGIH TLV	Acute Toxicity Data
Nitrogen	100	7727-37-9	N/A	NDA

PART B – OTHER INGREDIENTS

Other Component(s) (chemical and common name(s)):	Wt. %	CAS No.	ACGIH TLV	Acute Toxicity Data
None	N/A	N/A		N/A

SECTION 3 – PHYSICAL AND CHEMICAL CHARACTERISTICS (Fire and Explosion Data)

Boiling Point:	-195.8 °C	Specific Gravity (H ₂ O = 1):	N/A	Vapor Pressure (mm Hg):	N/A
Percent Volatile by Volume (%):	100	Vapor Density (Air = 1):	0.98	Evaporation Rate (= 1):	N/A - Gas at room temperature
Solubility in Water:	Slight	Reactivity in Water:	Slight-forms H ₂ CO ₃		
Appearance and Odor:	Colorless gas, with no odor.				
Flash Point:	None	Flammable Limits in Air % by Volume:	N/A	Extinguisher Media:	N/A
Special Fire Fighting Procedures:	Though gas cylinders are equipped with pressure and temperature relief devices, they should be removed from high temperatures or fire to avoid risk of rupture.				
Unusual Fire and Explosion Hazards:	None				



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SECTION 4 – PHYSICAL HAZARDS

Stability:	Unstable	<input type="checkbox"/>	Conditions to Avoid:	N/A
	Stable	<input checked="" type="checkbox"/>		
Incompatibility (Materials to Avoid):	Can react violently with Li, Nd, Ti under proper conditions.			
Hazardous Decompositions Products:	None			
Hazardous Polymerization:	May Occur	<input type="checkbox"/>	Conditions to Avoid:	N/A
	Will not Occur	<input checked="" type="checkbox"/>		

NOTE: As used in Ansul extinguishers or cylinders, N₂ is a gas compressed under pressure up to 2400 psi at 70 °F.

SECTION 5 – HEALTH HAZARDS

Threshold Limit Value:	None Listed								
Routes of Entry:									
Eye Contact:	Avoid contact with liquefied form of N ₂ . Can produce chilling sensations and discomfort, also frostbite.								
Skin Contact:	Evaporation of liquid from the skin can produce chilling sensations. Frostbite can occur. Avoid N ₂ liquid.								
Inhalation:	In high concentrations, it is a simple asphyxiant – dizziness, shortness of breath, unconsciousness, or suffocation may occur.								
Ingestion:	Ingestion is not likely to occur since this material is gas at room temperature.								
Signs and Symptoms:	Acute Overexposure:	Dizziness, headaches, tinnitus, difficulty breathing, drowsiness, depending on length of exposure and concentrations.							
	Chronic Overexposure:	Compressed air illness.							
Medical Conditions Generally Aggravated by Exposure:	None known.								
Chemical Listed as Carcinogen or Potential:	National Toxicology	Yes	<input type="checkbox"/>	I.A.R.C.	Yes	<input type="checkbox"/>	OSHA:	Yes	<input type="checkbox"/>
		No	<input checked="" type="checkbox"/>		No	<input checked="" type="checkbox"/>		No	<input checked="" type="checkbox"/>

SECTION 6 – EMERGENCY AND FIRST AID PROCEDURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes while holding lids open. If redness, itching or a burning sensation develops, get Medical attention. Treat for frostbite if necessary.
Skin Contact:	Wash the material off the skin with copious amounts of soap and water for at least 15 minutes. If redness, itching, or burning sensation develops, get Medical attention. Treat for frostbite if necessary.
Inhalation:	Remove victim to fresh air. If cough or other respiratory symptoms occur, consult medical personnel. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Consult Medical personnel.
Ingestion:	Ingestion is not likely to occur since this material is gas at room temperature.



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SECTION 7 – SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type):	Not normally necessary if controls are adequate. If exposure is prolonged, a self-contained breathing apparatus is recommended.		
Ventilation:	Local Exhaust:	Recommended in confined spaces.	Mechanical (General): Recommended
Protective Gloves:	For contact with liquid.	Eye Protection:	Chemical goggles recommended when handling liquid. Full faceshield in addition if splashing is possible.
Other Protective Clothing or Equipment:	Protective clothing for contact with liquid.		

SECTION 8 – SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage:	Store containers in a clean, dry well-ventilated area, away from heat above 125 °F. Store as a compressed gas in DOT approved vessels. If cylinder is not attached to a system, it must be safety capped to protect against violent vessel movement or force of escaping gas if valve is actuated or seal is accidentally punctured.
Other Precautions:	Note incompatibility information in Section 4.
Steps to be Taken in Case Material is Released or Spilled:	Ventilate to outside.
Waste Disposal Methods:	Dispose of in compliance with local, state, and federal regulations.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS

HAZARD INDEX:	
4 Severe Hazard	1 HEALTH
3 Serious Hazard	0 FLAMMABILITY
2 Moderate Hazard	
1 Slight Hazard	0 REACTIVITY
0 Minimal Hazard	

N/A = Not Applicable ; NDA = No Data Available