

INERGEN®
QUICK IDENTIFIER (In Plant Common Name)

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:	October, 1999

SECTION 1 – IDENTITY

Common Name: (used on label) (Trade Name and Synonyms)	INERGEN	CAS No.:	N/A
Chemical Name:	Mixture of Inert Gases and Carbon Dioxide	Chemical Family:	Inert Gases: Nitrogen, Argon Nonmetallic Oxide: Carbon Dioxide
Formula:	52% N ₂ , 40% Ar and 8% CO ₂ (Percent by Volume)		

SECTION 2 – INGREDIENTS

PART A – HAZARDOUS INGREDIENTS					
Principal Hazardous Component(s) (chemical and common name(s)):	Wt. %	CAS No.	ACGIH TLV	Acute Toxicity Data	
None	N/A	N/A	N/A	N/A	
PART B – OTHER INGREDIENTS					
Other Component(s) (chemical and common name(s)):	Vol. %	Wt. %	CAS No.	ACGIH TLV	Acute Toxicity Data
Nitrogen	52	42.5	7727-37-9	N/E	NDA
Argon	40	47.0	7440-37-1	N/E	NDA
Carbon Dioxide	8	10.5	124-38-9	5000 ppm	ihl-hmn LC _{LO} 100,000 ppm/1 min

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

Boiling Point:	-320 °C	Specific Gravity (H ₂ O = 1):	.084 lbs./ft. ³	Vapor Pressure (mm Hg):	2205 psi @ 70 °F
Percent Volatile by Volume (%):	100	Vapor Density (Air = 1):	1.0	Evaporation Rate (= 1):	N/A Gas at room temperature.
Solubility in Water:	Slight	Reactivity in Water:	No		
Appearance and Odor:	Colorless gas with no odor.				
Flash Point:	None	Flammable Limits in Air % by Volume:	N/A	Extinguisher Media:	N/A
Auto-Ignition Temperature:	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				

SECTION 4 – PHYSICAL HAZARDS

Stability:	Unstable <input type="checkbox"/>	Stable <input checked="" type="checkbox"/>	Conditions to Avoid:	None
Incompatibility (Materials to Avoid):	Does not apply			
Hazardous Decomposition Products:	None			
Hazardous Polymerization:	May Occur <input type="checkbox"/>	Will Not Occur <input checked="" type="checkbox"/>	Conditions to Avoid:	N/A

SECTION 5 – HEALTH HAZARDS

INERGEN® (Continued)

Threshold Limit Value:	No TLV value cited, material can be an asphyxiant				
Routes of Entry: Eye Contact:	Non irritating gas				
Skin Contact:	Non irritating gas				
Inhalation:	Not an asphyxiant at its normal design concentration of 34 – 70% V/V				
Ingestion:	Non irritating gas				
Signs and Symptoms:	Acute Overexposure:	Dizziness, disorientation, loss of motor control			
	Chronic Overexposure:	Dizziness, disorientation, loss of motor control			
Medical Conditions Generally Aggravated by Exposure:	Not determined at this time. Suspect respiratory impairment.				
Chemical Listed as Carcinogen or Potential:	National Toxicology Program:	Yes <input type="checkbox"/>	I.A.R.C. Monographs:	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:	Avoid direct contact of high pressure gas discharge – use safety glasses.
Skin Contact:	Avoid direct contact of high pressure, cold gas with skin – wear gloves.
Inhalation:	Avoid direct inhalation of undiluted gas – gas mixture is an asphyxiant.
Ingestion:	N/A

SECTION 7 – SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type):	The normal discharge of INERGEN at its designed concentration between 34 – 70% V/V in a fixed enclosure does not present any hazard. Any exposure outside of these limits should result in the use of self-contained breathing apparatus. Respirators will not function in O ₂ deficient atmospheres.				
Ventilation:	Local Exhaust:	As required	Mechanical (General):	As required	
Protective Gloves:	Loose fitting gloves of impermeable materials such as leather. Leather work gloves are recommended when handling compressed gas cylinders.		Eye Protection:	Chemical goggles or safety glasses recommended.	
Other Protective Clothing or Equipment:	None				

SECTION 8 – SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage:	Normal precautions for handling high pressure gas
Other Precautions:	None
Steps to be Taken in Case Material is Released or Spilled:	None, material is a mixture of normal atmospheric gases
Waste Disposal Methods:	Not applicable, material is a mixture of normal atmospheric gases

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 N/E = None Established

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