

ANSULANSUL FIRE PROTECTION
MARINETTE, WI 54143-2542

P&S [REDACTED]

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MATERIAL SAFETY DATA SHEET264
G S [REDACTED]NITROGENQuick Identifier (In Plant Common Name)

MANUFACTURER'S NAME	Ansul Fire Protection Wormald U.S., Inc.	Emergency Telephone No. (715) 735-7411
Prepared By	Safety and Health Department	Date Prepared November 15, 1985

SECTION 1 - IDENTITY

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

SECTION 2 - INGREDIENTSPart A - HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical and common name(s))	%	CAS No.	ACGIH TLV	Acute Toxicity Data
Nitrogen	100	7727-37-9	None	

Part B - OTHER INGREDIENTS

Other Component(s) (chemical and common name(s))	%	CAS No.	Acute Toxicity Data
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SECTION 3 - PHYSICAL AND CHEMICAL CHARACTERISTICS (Fire and Explosion Data)

<u>Boiling Point:</u> -195.8 °C	<u>Specific Gravity</u> (H ₂ O=1): N/A	<u>Vapor Pressure</u> (mm Hg): N/A
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<u>Percent Volatile</u> <u>by Volume (%)</u> : 100	<u>Vapor Density</u> (Air = 1): 0.98	<u>Solubility</u> <u>in water</u> : Slight
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<u>Evaporation Rate</u> (_____ = 1): N/A - Gas at room temperature	<u>Reactivity in</u> Slight <u>Water</u> : Forms H ₂ CO ₃
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Appearance and
Odor: Colorless gas with no odor.

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SECTION 3 PHYSICAL AND CHEMICAL CHARACTERISTICS (cont.)

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<u>Flash Point:</u>	None	<u>Flammable Limits in Air % by Volume:</u>	N/A	<u>Extinguisher Media:</u>	N/A	<u>Auto-Ignition Temperature:</u>	N/A
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Special Fire FightingProcedures:

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 andExplosion Hazards: None.

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SECTION 4 - PHYSICAL HAZARDS

Stability Unstable ☐ Conditions
Stable ☒ to Avoid: N/A

Incompatibility

(Materials to Avoid): Can react violently with Li, Nd, Ti under proper conditions.

Hazardous DecompositionProducts: NoneHazardousMay Occur ☐ ConditionsPolymerizationWill Not Occur ☒ to Avoid: N/A

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

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SECTION 5 - HEALTH HAZARDS

Routes of EntryTHRESHOLD LIMIT VALUE: None listed.

Eye Contact: Avoid contact with liquefied form of N₂. Can produce chilling sensations and discomfort, also frostbite.

Skin Contact: Evaporation of liquid from the skin can produce chilling sensations. Frostbite can occur. Avoid N₂ liquid.

Inhalation: In high concentrations it is a simple asphyxiant - dizziness, shortness of breath, unconsciousness.

Ingestion: Ingestion is not likely to occur since this material is gas at room temperature.

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SECTION 5 HEALTH HAZARDS (cont.)

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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 [] I.A.R.C. Yes [] OSHA Yes []
Program No [X] Monographs No [X] No [X]

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SECTION 6 - EMERGENCY AND FIRST AID PROCEDURES

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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 occurs, 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.

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SECTION 7 - SPECIAL PROTECTION INFORMATION

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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.

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SECTION 8 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

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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 if 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:

Comply with all local, state, and Federal regulations.

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