

## **NITROGEN**

### **MSDS Number**

BHFHC

### **National Stock Number**

6830-01-196-4586

### **Product Name**

NITROGEN

### **Manufacturer**

AIR PRODUCTS AND CHEMICALS INDUSTRIAL GAS DIV

### **Product Identification**

Product ID:NITROGEN  
MSDS Date:06/01/1989  
FSC:6830  
NIIN:01-196-4586  
MSDS Number: BHFHC

### **Responsible Party**

AIR PRODUCTS & CHEMICALS,INDUSTRIAL GAS DIVISION

7201 HAMILTON BLVD

ALLENTOWN , PA 18197-1501

US

Emergency Phone: 800-523-9374/800-322-9092(PA)

Info Phone: 215-481-4911

Cage: 00742

### **Contractor**

AIR PRODUCTS AND CHEMICALS INC

ALLENTOWN, PA 18195-1501

US

800-345-3148/ 800-752-1597

Cage: 00742

### **Ingredients**

NITROGEN

CAS: 7727-37-9

RTECS: QW9700000

Fraction By Weight: 100%

ACGIH TLV: ASPHYXIAN; 9192

### **Hazards**

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:NITROGEN IS A SIMPLE ASPHYXIAN.  
NITROGEN UNDER HIGH PRESSURE CAN PRODUCE NARCOSIS.  
Explanation of Carcinogenicity:NONE OF THE CHEMICALS IN THIS PRODUCT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.  
Effects of Overexposure:INHALATION:DIZZINESS, NAUSEA, VOMITING, LOSS OF CONSCIOUSNESS, AND DEATH.  
Medical Cond Aggravated by Exposure:NONE NOTED.

### **First Aid**

First Aid: INHALATION: REMOVE SUBJECT TO FRESH AIR. RESCUE WORKERS, WEAR SCBA. GIVE OXYGEN/CPR AS NEEDED.

## Fire Fighting

Autoignition Temp: Autoignition Temp Text: NONE

Extinguishing Media: AS APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard: CYLINDERS MAY EXPLODE IN HEAT OF FIRE.

## Accidental Release

Spill Release Procedures: VENTILATE ENCLOSED AREAS TO PREVENT FORMATION OF OXYGEN-DEFICIENT ATMOSPHERES CAUSED BY THE RELEASE OF GASEOUS NITROGEN.

Neutralizing Agent: NONE APPLICABLE FOR THIS MATERIAL

## Handling

Handling and Storage Precautions: USE ONLY IN WELL VENTILATED AREAS.

CONTAINS NITROGEN AT EXTREMELY HIGH PRESSURE. HANDLE WITH CARE.

Other Precautions: AVOID DRAGGING, ROLLING OR SLIDING CYLINDERS. USE HAND TRUCK. STORE OUTSIDE. KEEP AWAY FROM HEAT, FLAMES AND COMBUSTIBLE MATERIALS. KEEP AWAY FROM HEAVY TRAFFIC AREAS. AVOID EXPOSURE TO SALT OR OTHER CORROSIVE CHEMICALS. REPLACE CAP WHEN NOT IN USE

## Exposure Controls

Respiratory Protection: USE SCBA IN OXYGEN-DEFICIENT ATMOSPHERES.

CAUTION! RESPIRATORS WILL NOT FUNCTION. USE MAY RESULT IN ASPHYXIATION.

Ventilation: MECHANICAL (GENERAL) VENTILATION AND/OR LOCAL EXHAUST AS NECESSARY.

Protective Gloves: LEATHER WORK GLOVES.

Eye Protection: SAFETY GLASSES.

Other Protective Equipment: OXYGEN MONITORING EQUIPMENT TO TEST FOR OXYGEN DEFICIENT ATMOSPHERES.

Work Hygienic Practices: STANDARD HYGIENIC PRACTICES.

Supplemental Safety and Health  
NONE.

## Chemical Properties

HCC: G3

Boiling Pt: B.P. Text: -320F, -196C

Melt/Freeze Pt: M.P/F.P Text: -346F, -210C

Vapor Density: 0.07245

Spec Gravity: 0.967

Solubility in Water: 1.52%

Appearance and Odor: COLORLESS, ODORLESS GAS.

## Stability

Stability Indicator/Materials to Avoid: YES

NONE.

Stability Condition to Avoid: NONE.

Hazardous Decomposition Products: NONE.

## Disposal

Waste Disposal Methods: VENT NITROGEN GAS SLOWLY TO A WELL VENTILATED OUTDOOR LOCATION REMOTE FROM WORK AREAS. DO NOT DISPOSE OF RESIDUAL NITROGEN IN CYLINDERS. RETURN TO MANUFACTURER WITH RESIDUAL PRESSURE, VALVE TIGHTLY CLOSED, AND VALVE CAPS IN PLACE.

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