

ANSUL FIRE PROTECTION,WORMALD U.S.INC. -- NITROGEN -- 4210-01-238-6095

===== Product Identification =====

Product ID:NITROGEN

MSDS Date:10/01/1992

FSC:4210

NIIN:01-238-6095

MSDS Number: BYDDP

=== Responsible Party ===

Company Name:ANSUL FIRE PROTECTION,WORMALD U.S.INC.

Address:ONE STANTON STREET

City:MARINETTE

State:WI

ZIP:54143-2542

Country:US

Info Phone Num:715-735-7411

Emergency Phone Num:715-7

35-7411

CAGE:03670

=== Contractor Identification ===

Company Name:ANSUL INC

Address:ONE STANTON STREET

Box:City:MARINETTE

State:WI

ZIP:54143-2542

Country:US

Phone:715-735-7411

CAGE:03670

===== Composition/Information on Ingredients =====

Ingred Name:NITROGEN

CAS:7727-37-9

RTECS #:QW9700000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED

ACGIH TLV:ASPHYXIAN; 9192

===== Hazards Identification =====

LD50 LC50 Mixture:LD50 (ORAL RAT) IS N

NOT APPLICABLE.

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: EVAPORATION OF THE LIQUID FROM THE SKIN CAN PRODUCE FROSTBITE. IN HIGH CONCENTRATIONS THIS IS A SIMPLE ASPHYXIA - DIZZINESS, SHORTNESS OF BREATH, UNCONSCIOUSNESS, OR SUFFOCATION CAN OCCUR. ANY COMPRESSED GAS CAN BE A MECHANICAL HAZARD. CAN CAUSE COMPRESSED AIR ILLNESS WITH CHRONIC OVEREXPOSURE

Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:FROSTBITE OR CHILLING OF SKIN FROM CRYOGENIC LIQUID. GAS CAN DISPLACE OXYGEN FOR BREATHING AND RESULT IN DIZZINESS, SHORTNESS OF BREATH.

Medical Condition Aggravated by Exposure:NONE KNOWN

===== First Aid Measures =====

First Aid:TREAT FOR FROSTBITE IF NEEDED. IF BURNING OR ITCHING SENSATION OF EYES/SKIN OCCUR, FLUSH WITH WATER FOR 15 MINUTES AND SEEK MEDICAL ATTENTION. REMOVE VICTIM TO FRESH AIR IN CASE OF OVERDOSE. GIVE MOUTH-TO-MOUTH ARTIFICIAL RESPIRATION IF NEEDED. GIVE OXYGEN IF BREATHING IS DIFFICULT.

===== Fire Fighting Measures =====

Fire Fighting Procedures:GAS CYLINDERS ARE EQUIPPED WITH PRESSURE AND TEMPERATURE RELIEF DEVICES - REMOVE CYLINDERS FROM FIRE OR HIGH TEMPERATURE TO AVOID DANGER OF RUPTURE.

Unusual Fire/Explosion Hazard:NONE REPORTED BY MANUFACTURER.

===== Accidental Release Measures =====

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM RELEASE AREA. VENTILATE THE AREA.

Neutralizing Agent:NOT APPLICABLE.

===== Handling and Storage =====

Handling and Storage Precautions:PROTECT CYLINDERS FROM PHYSICAL DAMAGE. STORE BELOW 125°F AS A COMPRESSED GAS. KEEP CYLINDER VALVES CLOSED WHEN NOT IN USE AND WHEN EMPTY.

Other Precautions:DO NOT DEFACE CYLINDERS OR LABELS. HANDLE CYLINDERS WITH PROPER CAUTION. STORE CYLINDERS

CYLINDERS IN A CLEAN, DRY, WELL  
VENTILLATED AREA AWAY FROM HEAT ABOVE 125F. KEEP CYLINDER CAPPED  
AND SECURED AGAINST MOVE MENT WHEN NOT IN USE.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:SCBA MAY BE NEEDED FOR PROLONGED EXPOSURE OR FOR  
USE IN AN ENCLOSED AREA.

Ventilation:LOCAL EXHAUST MAY BE NEEDED FOR CONFINED SPACE USE. GENERAL  
MECHANICAL VENTILATION IS ALWAYS RECOMMENDED.

Protective Gloves:WORK GLOVES FOR HANDLING CYLINDERS.

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e Protection:APPROVED SAFETY GLASSES OR FACE SHIELD.

Other Protective Equipment:SAFETY SHOES AND HEARING PROTECTION.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES. USE PROPER CARE WHEN HANDLING AND STORING  
CYLINDERS.

Supplemental Safety and Health

SPECIAL GLOVES, FACE SHIELD, AND OTHER PROTECTIVE CLOTHING MAY BE  
NEEDED IF HANDLING LIQUID NITROGEN.

===== Physical/Chemical Properties =====

HCC:G3

Boiling Pt:B.P.

Text:-320F,-196C

Vapor Density:0.98 AIR=1

Solubility in Water:SLIGHT

Appearance and Odor:COLORLESS,ODORLESS GAS

Percent Volatiles by Volume:100

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

CAN REACT VIOLENTLY WITH LITHIUM (LI), NEODYMIUM (ND) AND TITANIUM (TI)  
UNDER CERTAIN CONDITIONS.

Stability Condition to Avoid:NONE REPORTED BY MANUFACTURER

Hazardous Decomposition Products:NONE

===== Disposal Considerati

ons =====

Waste Disposal Methods:MOVE LEAKY CYLINDER TO OUTDOORS OR VENTILATED HOOD. ALLOW GAS TO DISCHARGE AT MODERATE RATE. DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. OR RETURN CYLINDERS TO MANUFACTURER.

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