

ANSUL FIRE PROTECTION, WORMALD U.S.INC. -- NITROGEN -- 4210-01-204-1508

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

Product ID:NITROGEN

MSDS Date:10/01/1992

FSC:4210

NIIN:01-204-1508

MSDS Number: BRKKT

=== 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

-735-7411/800-424-9300(CHEMTREC)

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 RECOMMENDED

ACGIH TLV:ASPHYXIAN; 9293

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

LD50 LC50 M

ixture:NOT RELEVANT

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic:ACUTE- NITROGEN IS DEFINED AS AN ASPHYXIANT. OXYGEN LEVELS SHOULD BE MAINTAINED AT > 18 MOLAR % AT NORMAL ATMOSPHERIC PRESSURE. NITROGEN IS NONTOXIC BUT LARGE AMOUNT IN A CONFINED AREA COULD DISPLACE OXYGEN. LIQUID CAN CAUSE EYE OR SKIN FROSTBITE. INGESTION IS UNLIKELY. CHRONIC- COMPRESSED AIR ILLNESS.

Effects of Over

exposure:DIZZINESS, HEADACHE, DIFFICULTY IN BREATHING, DROWSINESS, UNCONSCIOUSNESS, EYE OR SKIN FROSTBITE

Medical Condition Aggravated by Exposure:NOT KNOWN

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

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN:FLUSH WITH PLENTY OF WATER, THEN WASH WITH SOAP & WATER. EYE:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR. PROVIDE OXYGEN/CPR IF NEEDED. ORAL:NOT LIKELY TO OCCUR.

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

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL FOR SURROUNDING FIRE. NITROGEN CANNOT CATCH FIRE.

Fire Fighting Procedures:EVACUATE ALL PERSONNEL FROM DANGER AREA. IMMEDIATELY DELUGE CONTAINERS WITH WATER SPRAY FROM MAXIMUM DISTANCE UNTIL COOL, THEN MOVE CONTAINERS AWAY IF NO RISK.

Unusual Fire/Explosion Hazard:CONTAINER MAY RUPTURE DUE TO HEAT OF FIRE. NO PART OF CONTAINER SHOULD BE SUBJECTED TO A TEMPERATURE HIGHER THAN 52C (125F). MOST CONTAINERS VENT WHEN HEATED.

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

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM AFFECTED AREA. USE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. VENTILATE AREA. SHUT OFF LEAK IF WITHOUT RISK. TEST AREA FOR SUFFICIENT OXYGEN CONTENT PRIOR TO PERMITTING RE-ENTRY OF PERSONNEL.

Neutralizing Agent:NONE

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

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Handling and Storage Precautions:STORE UPRIGHT, IN COOL, DRY,
WELL-VENTILATED AREA BELOW 126F AWAY FROM HEAVILY TRAFFICKED AREAS
& EMERGENCY EXITS.

Other Precautions:CAN CAUSE INJURY/DEATH. BE SURE TO READ & UNDERSTAND
ALL LABELS & OTHER INSTRUCTIONS.

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

Respiratory Protection:POSITIVE PRESSURE AIR LINE WITH MASK OR
SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR
EMERGENCY USE.

V

entilation:LOCAL EXHAUST

Protective Gloves:ANY MATERIAL TO HANDLE CYLINDERS

Eye Protection:SAFETY GLASSES OR GOGGLES

Other Protective Equipment:SAFETY SHOES

Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING OR
DRINKING.

Supplemental Safety and Health

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

HCC:G3

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

Vapor Pres:GAS

Vapor Density:0.98

Spec Gravity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Wate

r:VERY SLIGHT

Appearance and Odor:COLORLESS, ODORLESS GAS AT NORMAL TEMPERATURE AND
PRESSURE

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

NONE

Stability Condition to Avoid:TEMPERATURES ABOVE 52 C

Hazardous Decomposition Products:NONE

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE
AND FEDERAL REGULA

TIONS.

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