

ANSUL FIRE PROTECTION, WORMALD U.S.INC. -- NITROGEN -- 6830-01-334-2900

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

Product ID:NITROGEN

MSDS Date:10/01/1992

FSC:6830

NIIN:01-334-2900

MSDS Number: CFRHS

=== 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...FAX 715-732-3477

Emer

gency Phone Num:715-735-7411/800-424-9300(CHEMTREC)

CAGE:03670

=== Contractor Identification ===

Company Name:ANSUL FIRE PROTECTION

Address:ONE STANTON ST

Box:UNKNOW

City:MARINETTE

State:WI

ZIP:54143-2542

Country:US

Phone:715-735-7411

CAGE:04JH1

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 #:QW9700

000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:ASPHYXIAN; 9596

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

LD50 LC50 Mixture:TLV:NONE LISTED

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

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

Health Hazards Acute and Chronic:EYE:AVOID CONTACT W/LIQUEFIED FORM OF
N2.CAN PRODUCE CHILLING SENSATIONS & DISCOMFORT,ALSO
FROSTBITE.SKIN;EVAPORATION OF LIQ FROM SKIN CAN PRODUCE CHILLING

SENSATION.FROSTBITE CAN OCCUR.AVOID N2 LIQUID.INHAL:IN HIGH CONCENTRATIONS
ITS SIMPLE ASPHYXIAN-DIZZ,SHORTNESS OF BREATH,UNCONSCIOUS,SUFFOCATION
MAY OCCUR.INGEST:NOT (SUPPLEMENT)

Explanation of Carcinogenicity:PER MSDS:CEHM LISTED AS
CARC/POTENTIAL:NTP/IARC/OSHA:NO.

Effects of Overexposure:ACUTE:DIZZ,HEADACHES,TINNITUS,DIFFICULTY
BREATHING,DROWSINESS,DEPENDING ON LENGTH OF EXPOSURE & CONCENTRATIONS.
CHRONIC:COMPRESSED AIR ILLNESS.

Medical Conditions Aggravated by Exposure:NONE KNOWN.

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

First Aid:EYE:IMMEDIATELY FLUSH W/PLENTY OF WATER FOR @LEAST 15MINS WHILE
HOLDING LIDS OPEN.RED/ITCH/BURN SENS OCCUR GET MEDICAL ATTENTION.TREAT FOR
FROSTBITE IF NECESSARY.SKIN:WASH MATERIAL OFF W/COPIOUS AMOUNTS OF
SOAP/WATER FOR @LEAST 15MINS.RED/ITCH/BURN SENS OCCUR GET MEDICAL
ATTENTION.TREAT FOR FROSTBITE IF NECESSARY.INHAL:REMOVE TO FRESH
AIR.COUGH/OTHER RESPIRATORY SYMPTOMS OCCUR CONSULT MEDICAL PERSONNEL.NOT BREATHING
GIVE ARTIFICIAL RESPIRATION (SUPPLEMENT)

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

Flash Point:NONE

Autoignition Temp:Autoignition Temp Text:NA

Lower Limits:NA

Upper Limits:NA

Extinguishing Media:NA.NOTE:AS USED IN ANSUL EXTINGUISHERS OR
CYLINDERS,N2 IS A GAS COMPRESSED UNDER PRESSURE UP TO 2400PSI @70F.

Fire Fighting Procedures:THOUGH GAS CYLINDERS ARE EQUIPPED W/PRESSURE &
TEMP RELIEF DEVICES THEY SHOULD BE REMOVED FROM HIGH TEMPS OR FIRE
TO AVOID RISK OF RUPTURE.

Unusual Fire/Explosion Hazard:NONE

==

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

Spill Release Procedures:VENITALE TO OUTSIDE.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE CNTNR IN CLEAN DRY WELL-VENTI
AREA AWYA FROM HEAT >125F.STORE AS COMPRESSED GAS IN DOT APPROV
VESSELS.

Other Precautions:IF CYL NOT ATTACHED TO SYSTEM MUST BE SAFETY CAPPED
TO PROTECT AGAINST VIOLENT VESSEL MOVEMENT
OR FORCE OF ESCAPING GAS
IF VALVE IS ACTUATED OR SEAL IS ACCIDENTALLY PUNCTURED.NOTE
INCOMPATIBLITY INFOR MATION.

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

Respiratory Protection:NOT NORMALLY NECESSARY IF CONTROLS ARE
ADEQUATE.IF EXPO IS PROLONGED A SELF-CONTAINED BREATHING APPARATUS
IS RECOMMENDED.

Ventilation:LOC EXHAU:RECOMMENDED IN CONFINED SPACES.
MECH(GEN):RECOMMENDED

Protective Gloves:FOR CONTACT W/LIQUID

Eye Protection:CHEM GOG-HNDLG LLIQ,
FULL FCSHIELD-SPLASH

Other Protective Equipment:PROTECTIVE CLOTHING FOR CONTACT W/LIQUID.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

HEALTH:LIKELY TO OCCUR SINCE MATL IS GAS @ROOM TEMP.

1ST AID:MOUHT-TO-MOUTH.BREATH DIFF GIVE OXY.CONSULT MED
PERSONNEL.INEST:NOT LIKELY TO OCCUR SINC EMATL GAS @RM TEMP.

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

HCC:G3

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

Melt/Freeze Pt:M.P/F.P Text:NP

Deco

mp Temp:Decomp Text:NP

Vapor Pres:NA

Vapor Density:0.98

Spec Gravity:NA

pH:NP

Viscosity:NP

Evaporation Rate & Reference:NA,GAS @ROOM TEMPERATURE

Solubility in Water:SLIGHT,FORMS H2CO3

Appearance and Odor:COLORLESS GAS WITH NO ODOR

Percent Volatiles by Volume:100

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES

CAN REACT VIOLENTLY W/LI, ND, TI UNDER PROPER CONDITIONS.

Hazardous Decomposition Products:NONE

=====

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

Waste Disposal Methods:DISPOSE OF IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.