

MITTLER SUPPLY INC -- NITROGEN (CRYOGENIC LIQUID) -- 6830-00-285-4769

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Product Identification  
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Product ID:NITROGEN (CRYOGENIC LIQUID)

MSDS Date:01/01/1990

FSC:6830

NIIN:00-285-4769

MSDS Number: BQXSH

=== Responsible Party ===

Company Name:MITTLER SUPPLY INC

Address:3607 S MAIN ST

City:SOUTH BEND

State:IN

ZIP:46614

Country:US

Info Phone Num:219-291-5334

Emergency Phone Num:219-291-5334

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AGE:0B672

=== Contractor Identification ===

Company Name:MITTLER SUPPLY INC

Address:3607 S MAIN ST

Box:City:SOUTH BEND

State:IN

ZIP:46614

Country:US

Phone:219-291-5100

CAGE:0B672

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Composition/Information on Ingredients  
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Ingred Name:NITROGEN

CAS:7727-37-9

RTECS #:QW9700000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:ASPHYXIAN; 9293

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Hazards Identification  
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Routes of Entry: Inhalation:YES Skin:YES I

ngestion:NO

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

Health Hazards Acute and Chronic:SWALLOWING-FROSTBITE MAY RESULT FROM CONTACT WITH LIQUID. INHALATION-ASPHYXIAN. SKIN CONTACT-NO HARMFUL EFFECTS EXPECTED FROM VAPOR. LIQUID MAY CAUE FROSTBITE. EYE CONTACT-NO HARMFUL EFFECTS EXPECTED FROM VAPOR.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overex

posure:INHALATION-MODERATE CONCENTRATIONS MAY CAUSE HEADACHE, DROWSINESS, DIZZINESS, EXCITATION, EXCESS SALIVATION, VOMITING, AND UNCONSCIOUSNESS. LACK OF OXYGEN CAN CAUSE DEATH.

Medical Cond Aggravated by Exposure:THE TOXICOLOGICAL AND THE PHYSICAL AND CHEMICAL PROPERTIES OF THE MATERIAL DO NOT SUGGEST THAT OVEREXPOSURE IS LIKELY TO AGGRAVATE EXISTING MEDICAL CONDITIONS.

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

First Aid:SWALLOWING-THIS PRODUCT IS A GAS AT NORMAL TEMPERATURE AND PRESSURE. SKIN CONTACT-IMMEDIATELY WARM FROSTBITE AREA WITH WARM WATER (NOT TO EXCEED 105F). INHALATION-REMOVE TO FRESH AIR. GOVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GIVE OXYGEN IF BREATHING IS HARD. CALL A PHYSICIAN. EYE CONTACT-IMMEDIATELY FLUSH EYES THOROUGHLY WITH WATER FOR AT LEAST 15 MIN. SEE PHYSICIAN IMMEDIATELY.

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

Autoignition Temp:Autoignition Temp Text:NA

Lo

wer Limits:NA

Upper Limits:NA

Extinguishing Media:NITROGEN CANNOT CATCH FIRE. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:EVACUATE ALL PERSSONEL FROM DANGER AREA. IMMEDIATELY DELUGE CONTAINERS WITH WATER SPRAY FROM MAXIUM DISTANCE UNTIL COOL. MOVE CONTAINERS AWAY FROM FIRE AREA.

Unusual Fire/Explosion Hazard:CLOSED CONTAINERS MAY RUPTURE DUE TO HEAT OF FIRE. LIQUID NITROGEN WILL FREEZE WATER RAPIDLY. CONTAINERS ARE PROVIDED WITH PRESSURE-RELIEF DEVICES

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

Spill Release Procedures:IMMEDIATELY EVACUATE ALL PERSONNEL FROM DANGER AREA. ALLOW SPILLED LIQUID TO EVAPORATE. SHUTOFF LEAK IF WITHOUT RISK. MOVE LEAKING ASSEMBLY TO VENTILATED AREA OR VENTILATE AREA OF LEAK. USE SELF-CONTAINED BREATHING APPARATUS WHERE NEEDED.

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

Handling and Storage Precautions:NEVER WORK ON A PRESSURIZED SYSTEM. IF THERE

IS A LEAK, CLOSE THE CYLINDER VALVE, BLOW DOWN THE SYSTEM BY VENTING TO A SAFE PLACE, THEN REPAIR LEAK.

Other Precautions:EXTREMELY COLD LIQUID AND GAS.

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

Respiratory Protection:SELECT IN ACCORDANCE WITH OSHA 29 CFR 1910.134. RESPIRATORS SHALL BE ACCEPTABLE TO MSHA AND NIOSH.

Ventilation:LOCAL EXHAUST VENTILATION PREFERRED.

Protective Gloves:LOOSE FITTING CRYOGENIC GLOVES.

Eye Protection:SELECT IN ACCORDANCE WITH OSHA 29 CFR.

Other Protective Equipment:SHOES FOR CYLINDER HANDLING. PROTECTIVE CLOTHING WHERE NEEDED. CUTLESS TROUSERS SHOULD BE WORN OUTSIDE SHOES.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MIST.

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

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HCC:G3

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

Melt/Freeze Pt:M.P/F.P Text:-345F,-209C

Vapor Pres:GAS

Vapor Density:0.967

Spec Gravity:0.908

Evaporation Rate & Reference:HIGH

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS, ODORLESS LIQUID.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

NONE CURRENTLY KNOWN.

Stability Condition to Avoid:HIGH.

Hazardous Decomposition Products:NONE.

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

Waste Disposal Methods: SLOWLY RELEASE INTO ATMOSPHERE OUTDOORS.

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