

ALDRICH CHEMICAL CO INC./SUB OF SIGMA-ALDRICH CORP -- N,N-DIMETHYLFORMAMIDE, 99% --
6810-01-445-8046

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

Product ID:N,N-DIMETHYLFORMAMIDE, 99%

MSDS Date:09/10/1997

FSC:6810

NIIN:01-445-8046

Status Code:A

MSDS Number: CHXFC

=== Responsible Party ===

Company Name:ALDRICH CHEMICAL CO INC./SUB OF SIGMA-ALDRICH CORP

Address:1001 W. ST. PAUL AVE

Box:355

City:MILWAUKEE

Sta

te:WI

ZIP:53201

Country:US

Info Phone Num:414-273-3850/FAX -4979

Emergency Phone Num:414-273-3850

CAGE:60928

=== Contractor Identification ===

Company Name:ALDRICH CHEMICAL CO INC

Address:1001 WEST ST PAUL AVE

Box:355

City:MILWAUKEE

State:WI

ZIP:53233

Country:US

Phone:414-273-3850

CAGE:60928

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

Ingred Name:DIMETHYLFORMAMIDE (CERCLA)

CAS:68-12-2

RTECS #:LQ2100000

Fraction by Wt: 99%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:S, 1

0 PPM
ACGIH TLV:S, 10 PPM; 9596
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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Hazards Identification
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LD50 LC50 Mixture:ORAL LD50 (RAT) IS 2800 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:CAUSES EYE AND SKIN IRRITATION.
MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
Explanation of Carcinogenicity:REPORTED TO BE POSSIBLY C
ARCINOGENIC
BASED ON ITS IARC, ACGIH, NTP OR EPA CLASSIFICATION.
Effects of Overexposure:STOMACH PAINS, VOMITING, DIARRHEA, NAUSEA,
HDIZZINESS, EADACHE. READILY ABSORBED THROUGH SKIN.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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First Aid Measures
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First Aid:IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH
COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MIN WHILE REMOVING
CONTAMINATED CLOTHES AND SHOES. IF
INHALED, REMOVE TO FRESH AIR. IF
NOT BREATHING GI VE ARTIFICIAL RESPIRATION. IF BREATHING IS
DIFFICULT, GIVE OXYGEN. IF SWALLOWED, WASH OUT MOUTH WITH WATER
PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.

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Fire Fighting Measures
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Flash Point:136F,58C
Autoignition Temp:Autoignition Temp Text:833F
Lower Limits:2.2
Upper Limits:15.2
Extinguishing Media:CABON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE
FOAM.
Fire Fighting Procedures:WEAR SE
LF-CONTAINED BREATHING APPARATUS AND
PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.
COMBUSTIBLE.
Unusual Fire/Explosion Hazard:EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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Accidental Release Measures
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Spill Release Procedures:EVACUATE AREA. WEAR SCBA, RUBBER BOOTS AND
HEAVY RUBBER GLOVES. ABSORB ON SAND OR VERMICULITE AND PLACE IN
CLOSED CONTAINER FOR DISPOSAL. VENTILATE AREA AND WASH SPILL SITE
AFTER MATERIAL PICKUP IS CO MPLE

TE.
Neutralizing Agent:NONE

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Handling and Storage
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Handling and Storage Precautions:KEEP TIGHTLY CLOSED. STORE IN A COOL DRY PLACE. KEEP AWAY FROM HEAT AND OPEN FLAMES.
Other Precautions:NONE.

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Exposure Controls/Personal Protection
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Respiratory Protection:WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR.
Ventilation:USE ONLY IN A CHEMICAL FUME HOOD.
Protective Gloves:CHEMICAL RESISTANT GLOVES.KIN.
Eye Protection:SAFETY GOGGLES. FACE SHIELD (8 IN MIN)
Other Protective Equipment:SAFETY SHOWER AND EYE BATH. IMPERVIOUS PROTECTIVE CLOTHING.
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.
Supplemental Safety and Health
AVOID CONTACT WITH EYES, SKIN AND CLOTHING, AVOID PROLONGED OR REPEATED EXPOSURE. SUSPECT CARCINOGEN. DO NOT BREATHE VAPORS

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Physical/Chemical Properties
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HCC:F4
Boiling Pt:B.P. Text:307F,153C
Melt/Freeze Pt:M.P/F.P Text:30.2F,-1.0C
Vapor Pres:
2.7 MM
Vapor Density:2.5
Spec Gravity:0.944
Appearance and Odor:COLORLESS LIQUID.

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Stability and Reactivity Data
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Stability Indicator/Materials to Avoid:YES
ACID CHLORIDES, OXIDIZING AGENTS, CHLOROFORMATES, REDUCING AGENTS, HALOGENS.
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:MAY PRODUCE CARBON MONOXIDE, CARBON DIOXIDE AND NITROGEN OXIDES.

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Disposal Considerations
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Waste Disposal Methods: THIS COMBUSTIBLE MATERIAL MAY BE BURNED IN A
CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.

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