

BURDICK AND JACKSON DIV OF BAXTER HEALTHCARE CORP. -- DIMETHYL FORMAMIDE, DMF --
6810-00-877-4340

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

Product ID: DIMETHYL FORMAMIDE, DMF

MSDS Date: 07/01/1989

FSC: 6810

NIIN: 00-877-4340

MSDS Number: BWSNW

=== Responsible Party ===

Company Name: BURDICK AND JACKSON DIV OF BAXTER HEALTHCARE CORP.

Address: 1953 S HARVEY STREET

City: MUSKEGON

State: MI

ZIP: 49442-6101

Country:

US

Info Phone Num: 616-726-3171

Emergency Phone Num: 616-726-3171, CHEMTREC 800-424-9300

CAGE: 2H215

=== Contractor Identification ===

Company Name: HONEYWELL, BURDICK AND JACKSON

Address: 1953 S HARVEY STREET

Box: City: MUSKEGON

State: MI

ZIP: 49442-6101

Country: US

Phone: 800-368-0050/800-707-4555

CAGE: 2H215

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

Ingred Name: DIMETHYLFORMAMIDE

CAS: 68-12-2

RTECS #: LQ2100000

Fraction by Wt: 100%

Other REC Limits: NONE RECOMMENDED

OSHA PEL: S, 1

0 PPM
ACGIH TLV:S, 10 PPM; 9394
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:INHAL:DIZZ,HEAD,NAU,ABDOMINAL
SPASMS,UPPER RESP TRACT IRRIT.LIVER/KIDNEY INJURY POSSIBLE FRM
REPEATED/PROLONGED EXPO.EYE:LIQ/HIGH VAP CONC CAN BE
IRRITATING.SKIN:PROLONGED/REPEATED CONTACT CAN CAUSE I
R
RIT/DERM.READILY ABSORBED THRU SKIN W/SYSTEMIC EFFECTS SIMILAR TO
INHAL.INGEST:GI TRACT DISCOMFORT.DEATH IF INGEST >50G
Explanation of Carcinogenicity:PER MSDS:DIMETHYL FORMAMIDE IS LISTED AS
A SUSPECTED HUMAN CARCINOGEN BY IARC.PROD DOES NOT CONTAIN CARCI
>0.1 CONC.
Effects of Overexposure:EYE & MUCOUS MEMBRANE IRRITANT, PRIMARY SKIN
IRRITANT & HEPATOTOXIN. ACUTE EXPO CAUSES DIZZINESS, NAUSEA,
VOMITING, & SEVERE ABDOMINAL SPASMS. CHRONIC INHAL CAN CAUSE LIVER
& KIDNEY DAM
AGE.
Medical Cond Aggravated by Exposure:PRECLUDE FRM EXPO THOSE INDIVIDUALS
W/DISEASE OF LIVER & KIDNEY & THOSE SUSCEPTIBLE TO DERM.
SIMULTANEOUS EXPO TO PROD AND ALCOHOL CAUSES FACIAL FLUSHING &
PALPITATION.

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

First Aid:INHAL:IMMED REMOVE TO FRESH AIR.NOT BREATH GIVE
MOUTH-TO-MOUTH RESCUE BREATH.NO PULSE GIVE CPR.CONTACT PHYSICIAN
IMMED. EYE:RINSE W/COPIOUS AMTS OF WATER @LEAST 15MINS.GET EMERG
MED ASS
IST.SKIN:FLUSH WELL @LEAST 15MINS.WASH AREA
W/SOAP/WATER.REMOVE CONTAMIN CLOTH/SHOES.GET EMERG MED
ASSIST.INGEST:CALL POI CNTRL CNTR FOR ASSIST.CONTACT PHYSICIAN
IMMED.NEVER INDUCE VOMIT/GIVE ANYTHING BY MOUTH (SUP)

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

Flash Point Method:TCC
Flash Point:136F,58C
Autoignition Temp:Autoignition Temp Text:445C
Lower Limits:2.2
Upper Limits:15.2
Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL OR ALCOHOL FOAM.
Fire Figh

ting Procedures:WEAR FULL PROTECTIVE CLOTH & SELF-CONTAINED BREATHING APPARATUS.HEAT WILL BUILD PRESSURE-MAY RUPTURE CLSD STORAGE CNTNRS.KEEP FIRE-EXPO CNTNRS COOL W/WATERSPRAY
Unusual Fire/Explosion Hazard:NONE OTHER THAN COMBUSTIBILITY.

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

Spill Release Procedures:PROTECT FROM IGNITION.WEAR PROT CLOTH/USE APPROVED RESP EQPMT.ABSORB IN ABSORBENT RECOMMENDED FOR SOLVENT SPILLS.REMOVE TO SAFE LOCATION FOR DISPOSAL
BY APPROVED METHODS.IF
RELEASED TO ENVIRO COMPLY W/ ALL REGULATORY NOTIFICATION REQMTS.

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

Handling and Storage Precautions:PROTECT FROM TEMP EXTREMES/DIRECT SUNLIGHT.PROPER STORAGE MUST BE DETERMINED BASED ON OTHER MATLS STORED & THEIR HAZ/POT CHEM INCOMPATIBILITY.
Other Precautions:IN GENERAL DIMETHYL FORMAMIDE SHOULD BE STORED IN ACCEPTABLY PROTECTED/SECURE TOXIC STORAGE ROOM.

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

Respiratory Protection:USE APPROVED RESPIRATOR EQPMT. FOLLOW NIOSH & EQPMT MFG'S RECOMMENDATIONS TO DETERMINE APPROPRIATE EQPMT (AIR-PURIFYING, AIR-SUPPLIED, OR SELF-CONTAINED BREATHING APPARATUS).
Ventilation:ADEQUATE VENTI REQUIRED TO PROT PERSONNEL FRM EXPO TO CHEM VAP EXCEEDING PEL/MIN FIRE HAZ.CHOICE OF VENTI EQPMT (SUPPLE)
Protective Gloves:BURL RUB,NAT RUB,NEOPRENE
Eye Protection:SAF GLASSES,GOGGLES,FACEHIELD
Other Protective Equipment:A
ACCEPTABLE CHEM RESIST PROT CLOTH
RECOMMENDED.PEOPLE ACUTELY/SPEC SENSITIVE TO PROD REQUIRE ADDN PROT.EYEWASH,SAF SHOWER
Work Hygienic Practices:WASH CONTAMIN CLOTHING BEFORE REUSE.
Supplemental Safety and Health
1ST AID:UNCONSC/HAVING CONVULSIONS. VENTI:LOC/GEN,DEPEND ON CONDITIONS OF USE/QUANT OF MATL/OTHER OPERATING PARAMETERS.

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

HCC:F4
Boiling Pt:B.P. Text:307F,153C
Melt/Freeze Pt:M.P/F.P Text:-77F,-60C
Vapor Pres

:2.7 @20C

Vapor Density:2.5

Spec Gravity:0.949 @20C

Evaporation Rate & Reference:0.2 (N-BUTYL ACETATE=1)

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, COLORLESS LIQUID WITH A SLIGHT AMINE-LIKE ODOR.

Percent Volatiles by Volume:100

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

STRONG OXIDIZERS, HALOGENATED CMPDS & IRON, ALKYL ALUMINUMS, & CARBON TETRACHLORIDE.

Stability Condition to Avoid:HEAT, SPARKS, OPEN FLAME, OPEN CONTAINERS, & POOR VENTILATION.

Hazardous Decomposition Products:INCOMPLETE COMBUST CAN GENERATE CO,DIMETHYLAMINE,NITROGEN OXIDES, & OTHER TOXIC VAP.THERM DECOMP MAY OCCUR @TEMP >350C.

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

Waste Disposal Methods:DISPOSE OF DIMETHYL FORMAMIDE AS EPA HAZ WASTE. CONTACT STATE ENVIRO AGENCY FOR LISTING OF LICENSED HAZ WASTE DISPOSAL FACILITIES AND APPLICABLE REGS. HAZ WASTE NO:D001 (IGNITABLE). PROD NOT SUB TO REPORTING RQMTS OF SEC 313 OF TITLE III SARA/40CFR372.

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.