

DIMETHYLFORMAMIDE

MSDS Number

BKNJQ

National Stock Number

6810-00N014780

Product Name

DIMETHYLFORMAMIDE

Manufacturer

ASHLAND CHEMICAL COMPANY

Product Identification

Product ID: DIMETHYLFORMAMIDE

MSDS Date: 04/19/1989

FSC: 6810

NIIN: 00N014780

MSDS Number: BKNJQ

Responsible Party

ASHLAND CHEMICAL COMPANY

COLUMBUS , OH 43216-2219

US

Emergency Phone: 606-324-1133

Info Phone: 614-889-3333

Cage: 34897

Contractor

ASHLAND CHEMICAL CO

2219

COLUMBUS, OH 43216-2219

US

614-790-3333/800-274-5263

Cage: 34897

Ingredients

ABNORMALITIES, KIDNEY/SPLEEN/LUNG DMG, AND CARDIAC

RTECS: 9999999ZZ

A CAUSE OF LIVER ABNORMALITIES IN HUMANS.

RTECS: 9999999ZZ

REMOVE TO FRESH AIR. IF BRTHG IS

RTECS: 9999999ZZ

ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET AND

RTECS: 9999999ZZ

ELIM ALL IGNITION SOURCES (FLARES,

RTECS: 9999999ZZ

NOT WEARING PROT EQUIP SHOULD BE EXCLUDED FROM AREA

RTECS: 9999999ZZ

SPILL AT SOURCE, DIKE AREA OF SPILL TO PVNT

RTECS: 9999999ZZ

TAKEN UP ON SAND, CLAY, EARTH, FLOOR ABSORB, OR

RTECS: 9999999ZZ

TO SEWERS/STREAMS/OTHER BODIES OF WATER. IF RUN-OFF

RTECS: 9999999ZZ

ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE

RTECS: 9999999ZZ

BUTYL RUBBER,

RTECS: 9999999ZZ

STYLE B-161R OR B-321R) SHOULD BE WORN WHERE

RTECS: 9999999ZZ

INTENDED FOR ROUTINE IMMERSION IN DMF OR FOR

RTECS: 9999999ZZ

THAT SHOW TEARS, PINHOLES OR SIGNS OF WEAR.

RTECS: 9999999ZZ

DIMETHYLFORMAMIDE

CAS: 68-12-2

RTECS: LQ2100000

Fraction By Weight: 100%

OSHA PELS, 10 PPM

ACGIH TLV: S, 10 PPM; 9192

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

THIS MATL (OR ITS

RTECS: 9999999ZZ

Hazards

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE: EYES: CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION. SKIN: PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING, DERMATITIS. DIMETHYLFORMAMIDE IS RAPIDLY ABSORBED THROUGH SKIN IN AMOUNTS WHICH CAN PRODUCE SYSTEMIC TOXICITY, RESULTING IN DAMAGE TO THE LIVER. (SEE EFTS OF OVEREXP)
Explanation of Carcinogenicity:IARC GROUP 2B.
Effects of Overexposure:HLTH HAZS: DMF SHOULD NOT BE USED IN ANY OPERATION (SUCH AS GENERAL CLEANING, ETC) WHERE SKIN CONTACT CAN OCCUR. BRTHG: EXCESS INHAL OF VAPORS CAN CAUSE NASAL & RESP IRRITATION, CNS EFTS INCLUDING DIZ Z, WEAK, FATG, NAUS, HDCH & POSS UNCON,& EVEN DEATH. INGEST: CAN CAUSE GI IRRITATION, NAUSEA, VOMITING, (SEE INGRED 02)
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid

First Aid:SKIN: THORO WASH W/SOAP & WATER. REMOVE CONTAM CLTHG. LAUNDER BEFORE REUSE. REMOVE CONTAM SHOES PROMPTLY. DISCARD SHOES SATURATED W/PROD. EYES: FLUSH W/LG AMTS OF WATER FOR AT LEAST 15 MIN. LIFT UPPER /LOWER LIDS OCCASN, GET MED ATTN. INGEST: DO NOT INDUCE VOMITING. IMMED DRINK 2 GLASSES WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCON PERSON. CALL MD OR TRANSPORT TO EMER FACILITY. (SEE INGRED 05)

Fire Fighting

Flash Point Method:TCC
Flash Point:136F,58C
Lower Limits:2.2%
Extinguishing Media:ALCOHOL FOAM, WATER FOG, CO*2, DRY CHEMICAL.
Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WITH FULL PROTECTIVE EQUIPMENT WHEN FIGHTING FIRES.
Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG GROUND OR BE MOVED BY VENTILATION AND IGNITED BY HEAT, PILOT LIGHTS, OTHER FLAMES AND IGNITION (SEE SUPP DATA)

Accidental Release

Spill Release Procedures:SM SPILL: ELIMINATE ALL SOURCES OF IGNITION SUCH AS FLARES, FLAMES (INCLUDING PILOT LIGHTS), & ELEC SPARKS. ABSORB LIQ ON PAPER, VERMICULITE, FLOOR ABSORB, OR OTHER ABSORB MATL & TRANSFER TO HOOD. ALL OW TO EVAPORATE. VENTILATE AREA. (SEE INGRED 07)
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling

Handling and Storage Precautions:CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR (SEE OTHER PREC)
Other Precautions:HNDLG/STOR PREC: SOLID), ALL HAZARD PRECAUTIONS GIVEN MUST BE OBSERVED.

Exposure Controls

Respiratory Protection:IF WORKPLACE EXPOS LIM OF PROD OR ANY COMPONENT IS EXCEEDED, A NIOSH/MSHA APPRVD AIR SUPP RESP IS ADVISED IN ABSENCE OF PROP ENVIRON CTL. OSHA REGS ALSO PERMIT OTHER NIOSH/MSHA RESPS (NEG PRESS TYPE) UNDER SPECIFIED CNDTNS. (SEE INGRED 12)
Ventilation:PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST)VENTILATION TO MAINTAIN EXPOSURE BELOW TLVS.
Protective Gloves:(SEE INGRED 13)
Eye Protection:CHEMICAL WORKERS GOGGLES .
Other Protective Equipment:WEAR IMPERVIOUS CLOTHING AND BOOTS TO PREVENT REPEATED OR PROLONGED SKIN CONTACT.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.
Supplemental Safety and Health
EXPLO HAZ: SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.
NEVER USE WELDING/CUTTING TORCH ON/NEAR DRUM (EVEN EMPTY) BECAUSE
PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY. ALL 5 GAL PA
ILS & LARGER METAL CNTNRS INCLUDING TANK CARS/TANK TRUCKS SHOULD BE
GROUNDED AND/OR BONDED WHEN MATERIAL IS TRANSFERRED.

Chemical Properties

HCC:F4
Boiling Pt:B.P. Text:307F,153C
Vapor Pres:3.7 @ 25C
Vapor Density:2.5
Spec Gravity:0.944 @ 20C
Evaporation Rate & Reference:0.17 (N-BUTYL ACETATE=1)
Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.
Percent Volatiles by Volume:100

Stability

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, HALOGENATED HYDROCARBONS.
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:MAY FORM TOXIC MATERIALS: CO*2 AND CO,
VARIOUS HYDROCARBONS, ETC.

Disposal

Waste Disposal Methods:SMALL/LARGE SPILL: DISPOSE OF IN ACCORDANCE WITH
ALL LOCAL, STATE AND FEDERAL REGULATIONS.

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