

DYNASOLVE 100

MSDS Number

BZZDJ

National Stock Number

6810-00N000733

Product Name

DYNASOLVE 100

Manufacturer

DYNALOY INC

Product Identification

Product ID:DYNASOLVE 100

MSDS Date:09/01/1989

FSC:6810

NIIN:00N000733

MSDS Number: BZZDJ

Responsible Party

DYNALOY INC

7 GREAT MEADOW LANE

HANOVER , NJ 07936

US

Emergency Phone: 201-887-9270

Info Phone: 201-887-9270

Preparer: JAY W. PARTON

Cage: 27905

Contractor

DYNALOY, INC.

INDIANAPOLIS, IN 46203

US

317-788-9925;703-527-3887

Cage: 27908

Ingredients

FORMAMIDE, N,N-DIMETHYL-; (N,N-DIMETHYLFORMAMIDE) (CERCLA)

CAS: 68-12-2

RTECS: LQ2100000

Fraction By Weight: 90-100%

OSHA PEL10 PPM, S

ACGIH TLV: 10 PPM, S

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

CHLORINE, BROMINE, NITRATES, NITRIC ACID,

RTECS: 9999999ZZ

ACID (CHROMIC ANHYDRIDE, CHROMIUM TRIOXIDE, CRO*3),

RTECS: 9999999ZZ

SODIUM, PHOSPHOROUS TRIOXIDE, DIBORANE,

RTECS: 9999999ZZ

(FCLO*3) WITH POTASSIUM METHYL 4,4'-DINITROBUTYRATE.

RTECS: 9999999ZZ

OXYCHLORIDE (POCL*3) & THIONYL CHLORIDE (SOCL*2),

RTECS: 9999999ZZ

IN 400 ML OF WATER). GET IMMEDIATE MEDICAL

RTECS: 9999999ZZ

FLUSH AWAY REMAINING TRACES WITH WATER SPRAY.

RTECS: 9999999ZZ

TO REMOVE RESIDUAL COMBUSTIBLE LIQUID OR

RTECS: 9999999ZZ

Hazards

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:ACUTE: IRRITATION TO EYES, SKIN, MUCOUS MEMBRANES AND RESPIRATORY TRACT. ABDOMINAL PAINS, NAUSEA, VOMITING, DIARRHEA, DIZZINESS, HEADACHE, ADVERSE EYE EFFECTS, BRIEF ALCOHOL INTOLERANCE, ABNORMAL BLOOD CLOTTING SYSTEM FUNCTION, ABNORMAL LIVER FUNCTION. CHRONIC: DAMAGE TO LIVER OR KIDNEY.

Explanation of Carcinogenicity:DIMETHYLFORMAMIDE: IARC MONO ON EVAL OF CARCIN RISK OF CHEMS TO MAN, VOL 47, PG 171, 1989:GROUP 2B.

ANIMAL:LIVER.

Effects of Overexposure:SEE HEALTH HAZARDS.

Medical Cond Aggravated by Exposure:LIVER DISORDERS, EYE DISEASE.

First Aid

First Aid:INHAL: REMOVE TO FRESH AIR. IF NOT BRTHG, GIVE ARTF RESP. IF BRTHG IS DFCLT, GIVE OXYGEN. CALL MD. EYES: FLUSH W/WATER, INCLUDING UNDER EYELIDS, FOR AT LEAST 15 MIN. CALL MD. SKIN: FLUSH W/WATER FOR 1 5 MIN, THEN WASH W/SOAP & WATER. REMOVECONTAMD CLTHG & SHOES. CALL MD. INGEST: DO NOT INDUCE VOMIT. IMMED GIVE 2 GLASSES OF WATER OR ACTIVATED CHARCOAL SLURRY (50 G OF ACTIVATED CHARCOAL (ING 7)

Fire Fighting

Flash Point Method:CC

Flash Point:136F,58C

Lower Limits:2.2%

Upper Limits:15.2%

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM, DRY CHEMICAL.

Fire Fighting Procedures:USE NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP .

USE WATER SPRAY TO COOL CNTNRS, FOR FLUSHING SPILLS FROM SOURCES OF IGNIT & TO DISPERSE VAPS. (SUPDAT)

Unusual Fire/Explosion Hazard: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO SOURCE OF IGNITION. SUDDEN REACTION AND FIRE MAY RESULT WHEN THE PRODUCT IS MIXED WITH OXIDIZING AGENTS.

Accidental Release

Spill Release Procedures: REVIEW FIRE & EXPLO HAZS & SFTY PRECS BEFORE PROCEEDING W/CLEANUP. USE APPROP PERSONAL PROT EQUIP DURING CLEANUP. DIKE SPILL W/SAND OR EARTH. ABSORB W/SAND OR OTHER NONFLAM ABSORB MATL & TRANSFER TO COVERED STEEL DRUMS FOR RECOVERY OR DISP. (ING 8)

Neutralizing Agent: NONE LISTED BY MANUFACTURER.

Handling

Handling and Storage Precautions: PROHIBIT SMOKING OR OPEN FLAME IN AREA. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. STORE IN TIGHTLY CLOSED CONTAINERS IN A COOL, DARK SPACE.

Other Precautions: AVOID BRTHG VAPS. USE W/ADEQ VENT. MAY BE ABSORBED THRU SKIN. AVOID CNTCT W/EYES, SKIN & CLTHG. DO NOT MIX/STORE W/POLYHALOGENATED CMPDS OR INORGANIC ACID CHLORIDES. EMPTY CNTNRS MAY CNTN FLAMM/TOX VA PS. FLUSH EMPTY CNTNRS W/WATER (ING 9)

Exposure Controls

Respiratory Protection: USE A NIOSH/MSHA APPROVED RESPIRATOR EQUIPPED W/ORGANIC VAPOR CARTRIDGES IF PERMISSIBLE EXPOSURE LIMITS MAY BE EXCEEDED. FOR CONCENTRATIONS ABOVE 100 PPM, USE NIOSH/MSHA APPROVED FULL FACEPIECE RESPIRATOR W/POSITIVE PRESSURE AIR SUPPLY.

Ventilation: WELL VENTILATED AREA. EXHAUST HOOD - EXPLOSION PROOF EQUIPMENT.

Protective Gloves: BUTYL RUBBER.

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGLES .

Other Protective Equipment: ANSI APPROVED EYE WASH & DELUGE SHOWER . BUTYL RUBBER APRON.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

VP: 2.6 @ 20C; 3.7 @ 25C. FIRE FIGHT PROC: FIREFIGHTERS' PROT CLTHG PROVIDES NO CHEM RESISTANCE TO DMF. CHEM RESISTANCE SUIT (BUTYL RUB) W/HOOD & NIOSH/MSHA APPRVD SCBA SHOULD BE WORN WHERE LIQ CNTCT W/DMF COULD OCCUR. MATL TO AVOID: POLYHALOGENATED CMPDS (SUCH AS CARBON TETRACHLORIDE) IN PRESENCE OF IRON, (ING 2)

Chemical Properties

Boiling Pt: B.P. Text: 307F, 153C

Vapor Pres: SUPDAT

Vapor Density: 2.5

Spec Gravity: 0.949 (H₂O=1)

pH: 3.68

Evaporation Rate & Reference: 0.17 (BU AC =1)

Solubility in Water: COMPLETE

Appearance and Odor: PINK LIQUID; AMIDE-LIKE ODOR.

Percent Volatiles by Volume: 100

Stability

Stability Indicator/Materials to Avoid: YES

ACID CHLORIDES, OXIDIZING AGENTS, CHLOROFORMATES, REDUCING AGENTS, HALOGENS. MAY REACT VIOLENTLY W/SOME (SUPDAT)

Stability Condition to Avoid: SEE MATERIALS TO AVOID.

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE, NO_x, DIMETHYLAMINE.

Disposal

Waste Disposal Methods: INCINERATE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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