

SANDSTROM PRODUCTS COMPANY -- DFL LC-300 MIL-L-89370/MIL-L-46010B TYPE 1 --
9150-00-834-5608

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

Product ID:DFL LC-300 MIL-L-89370/MIL-L-46010B TYPE 1

MSDS Date:12/28/1990

FSC:9150

NIIN:00-834-5608

MSDS Number: BMDSP

=== Responsible Party ===

Company Name:SANDSTROM PRODUCTS COMPANY

Address:224 SOUTH MAIN STREET

Box:547

City:PORT BYRON

State:IL

ZIP:61275-9501

Country

:US

Info Phone Num:309-523-2121

Emergency Phone Num:309-523-2121

Chemtrec Ind/Phone:(800)424-9300

CAGE:34227

=== Contractor Identification ===

Company Name:SANDSTROM PRODUCTS COMPANY

Address:224 SOUTH MAIN STREET

Box:City:PORT BYRON

State:IL

ZIP:61275

Country:US

Phone:309-523-2121

CAGE:34227

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

Ingred Name:1,4-DIOXANE (DIETHYLENE DIOXIDE) (SARA III)

CAS:123-91-1

RTECS #:JG8225000

Fraction by Wt: 20 - 25%

Other REC Limits:NONE S

PECIFIED
OSHA PEL:S, 100 PPM
ACGIH TLV:S, 25 PPM; 9293
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:PROPYLENE GLYCOL MONOMETHYL ETHER/1-METHOXY-2-PROPANOL
CAS:107-98-2
RTECS #:UB7700000
Other REC Limits:NONE SPECIFIED
OSHA PEL:100 PPM/150 STEL
ACGIH TLV:100 PPM/150STEL;9192

Ingred Name:ETHYL ALCOHOL (ETHANOL)
CAS:64-17-5
RTECS #:KQ6300000
Other REC Limits:NONE SPECIFIED
OSHA PEL:1000 PPM
ACGIH TLV:1000 PPM; 9192

Ingred Name:TOLUENE (SARA III)
CAS:108-88-3
RTECS #:XS5250000
Fraction by
Wt: 15 - 20%
Other REC Limits:NONE SPECIFIED
OSHA PEL:200 PPM/150 STEL
ACGIH TLV:50 PPM; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:METHYLENE CHLORIDE (SARA III)
CAS:75-09-2
RTECS #:PA8050000
Fraction by Wt: 5 - 10%
Other REC Limits:NONE SPECIFIED
OSHA PEL:500 PPM/C,1000; Z2
ACGIH TLV:50 PPM, A2; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:BASIC LEAD PHOSPHITE
CAS:12141-20-7
Fraction by Wt: 1 - 5%
Other REC Limits:NONE SPECIFIED

Ingred Name:ANTIMONY TRIOXIDE (

SARA III)
CAS:1309-64-4
RTECS #:CC5650000
Fraction by Wt: 5 - 10%
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.5 MG/M3 (SB)
ACGIH TLV:0.5 MG SB/M3; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:MOLYBDENUM DISULFIDE
CAS:1317-33-5
RTECS #:QA4697000
Other REC Limits:NONE SPECIFIED

Ingred Name:BISPHENOL A EPOXY RESIN
CAS:25036-25-3
Other REC Limits:NONE SPECIFIED

Ingred Name:N-BUTYL ACETATE (SARA III)
CAS:123-86-4
RTECS #:AF7350000
Other REC Limits:NONE SPECIFIED
OSHA PEL:150 PPM/200
STEL
ACGIH TLV:150 PPM/200STEL;9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE-EYES:MAY CAUSE
IRRITATION,CORNEAL INJURY.SKIN:PROLONGED CONTACT MAY CAUSE
DERMATITIS.INHALED:MAY CAUSE NOSE & THROAT IRRITATION,CNS
DEPRESSION,BRAIN & NERVOUS SYSTEM DAMAGE.MAY BE HARMFUL
OR FAT
AL.ORAL:MAY CAUSE GI IRRITATION,CNS DEPRESSION.ASPIRATION MAY CAUSE
LUNG DAMAGE.CHRONIC-LUNG,KIDNEY,LIVER DAMAGE.
Explanation of Carcinogenicity:CONTAINS 1,4-DIOXANE AND METHYLENE
CHLORIDE (MSDS).
Effects of Overexposure:EYE, SKIN, RESPIRATORY AND GASTRO-INTESTINAL
IRRITATION. SIGNS OF CNS DEPRESSION SUCH AS HEADACHE, DIZZINESS,
NAUSEA. IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR. SKIN
SENSITIZATION RESULTS IN ALLERGIC DERMATITIS WHICH MAY
INCLUDERA

SH, ITCHING, HIVES AND SWELLING OF EXTREMITIES.

Medical Cond Aggravated by Exposure: PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR RESPIRATORY DISORDERS OR CNS DISORDERS OR LUNG ALLERGIES MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

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First Aid Measures
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First Aid: GET MEDICAL ATTENTION IN ALL CASES. INHALED: REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES: FLUSH WITH WATER FOR 15 MINUTES HOLDING EYE LIDS OPEN. SKIN: WIPE OFF EXCESS & WASH WITH SOAP & WATER. ORAL : DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL HELP. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS WHICH CAN CAUSE PERMANENT DAMAGE.

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Fire Fighting Measures
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Flash Point Method: PMCC
Flash Point: 58.0F, 14.4C
Extinguishing Media: WATER FOG, CO2, FOAM OR DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL & FLUSH SPILLS

AWAY.

Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard: VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINERS MAY RUPTURE DUE TO VAPOR PRESSURE BUILDUP.

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Accidental Release Measures
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Spill Release Procedures: FIRE HAZARD: ELIMINATE ALL SOURCES OF IGNITION. EVACUATE AREA. VENTILATE AREA. STOP RELEASE. DIKE TO CONTAIN SPILL. WEAR PROPER SAFETY EQUIPMENT. IF AMOUNT IS LARGE, REMOVE LIQUID BY VACUUM. IF SMALL, ABSORB ON INERT MATERIAL. AVOID ENTERING TO SEWERS

Neutralizing Agent: NOT APPLICABLE.

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Handling and Storage
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Handling and Storage Precautions: STORAGE- STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM OXIDIZERS, HEAT & FLAMES.

Other Precautions: AVOID PROLO

NGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES AND SKIN. USE WITH ADEQUATE VENTILATION. SINCE EMPTY CONTAINER RETAINS PRODUCT RESIDUE, DO NOT CUT, DRILL, GRIND OR WELD NEAR CO NTAINERS.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED ORGANIC VAPOR RESPIRATOR AS REQUIRED IF ABOVE PEL/TLV OR SELF CONTAINED BREATHING APPARATUS IN AN ENCLOSED AREA.

Ventilation:LOCAL/MECHANICAL (NON-SPARKING) EXHAUST TO MAINTAIN PEL/TLV.

Protective Gloves:NEOPRENE, NITRILE, OR NATURAL RUBBER

Eye Protection:SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER,WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

FORMULA CHANGED. FOR PREVIOUS FORMULATIONS, SEE PNI A, B, C, D UNDER SAME NSN

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

HCC:F2

Vapor Density:>1

Evaporation Rate & Reference:< 1 (ETHER = 1)

Appearance and Odor:LIQUID

Percent Volatiles by Volume:84

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, STRONG ACIDS, AMINES, ALUMINUM, SODIUM, POTASSIUM, MAGNESIUM, ALDEHYDE & WATER

Stability Condition to Avoid:HIGH HEAT, SPARKS, OPEN FLAMES AND OTHER

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SOURCES OF IGNITION

Hazardous Decomposition Products:CHLORINE GAS, HCL, CHLORINATED ORGANIC COMPOUNDS, LEAD OXIDE FUMES, CO, CO2 AND UNIDENTIFIED ORGANIC COMPOUNDS

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

Waste Disposal Methods:DISCHARGE, TREATMENT OR DISPOSAL MAY BE SUBJECT TO LOCAL, STATE AND FEDERAL REGULATIONS. DISPOSE IN AN APPROVED INCINERATOR EQUIPPED WITH AFTERBURNER OR CONTACT WITH LICENSED CHEMICAL WASTE DISPOSAL SERVICE.REPORT SPILL TO SEWER OR WATERWAYS.

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