

SANDSTROM PRODUCTS COMPANY -- #238 DFL AEROSOL (MIL-L-23398D) -- 9150-01-260-2534
===== Product Identification =====

Product ID:#238 DFL AEROSOL (MIL-L-23398D)
MSDS Date:06/30/1999
FSC:9150
NIIN:01-260-2534
MSDS Number: CJMFM
=== 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:309-523-2121/800-424-9300(CHEMTREC)
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
Contract Num:SP0450-99-D-0419
CAGE:34227

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

Ingred Name:PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE
CAS:108-65-6
RTECS #:AI8295000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:NOT ESTABL

ISHED.
ACGIH TLV:NOT ESTABLISHED.

Ingred Name:CYCLOHEXANONE (CERCLA)
CAS:108-94-1
RTECS #:GW1050000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:S, 50 PPM
ACGIH TLV:S, 25 PPM; 9596
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:METHYL ETHYL KETONE (2-BUTANONE) (MEK) (SARA 313) (CERCLA)
CAS:78-93-3
RTECS #:EL6475000
Fraction by Wt: 30-35%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:200 PPM
ACGIH TLV:200 PPM/300STEL;9596
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ANTIMONY TRIOXID
E (SARA 313) (CERCLA)
CAS:1309-64-4
RTECS #:CC5650000
Fraction by Wt: 1 - 5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.5 MG (SB)/M3
ACGIH TLV:0.5 MG (SB)/M3; 9596
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:MOLYBDENUM DISULFIDE
CAS:1317-33-5
RTECS #:QA4697000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 MG MO/M3
ACGIH TLV:10 MG MO/M3

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

Ingred Name:1,3-DIOXOLANE
CAS:646-06-0
RTECS #:JH6760000

Ingr

ed Name: DIMETHYL ETHER
CAS: 115-10-6
RTECS #: PM4780000
Other REC Limits: LEL @25C IS 3.40

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

LD50 LC50 Mixture: LD50 (ORAL, RAT) IS NOT KNOWN.
Routes of Entry: Inhalation: YES Skin: YES Ingestion: YES
Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO
Health Hazards Acute and Chronic: TARGET ORGANS: EYE, SKIN, CNS, LIVER,
KIDNEY, LUNG. ACUTE- EYE/SKIN: MAY CAUSE IRRITATION. INHALATION: MAY
CAUSE CNS DEPRESSION AND IRRITATION
OF NOSE, THROAT & RESPIRATORY
TRACT. REPEATED & PROLONGED OVEREXPOSURE TO SOLVENT MAY CAUSE
PERMANENT BRAIN & NERVOUS SYSTEM DAMAGE. ORAL: MODERATELY TOXIC. MAY
CAUSE CNS DEPRESSION AND IRRITATION TO GI TRACT. CHRONIC- LUNGS,
LIVER AND KIDNEY DAMAGE, PRESUMED TO BE FETOTOXIC.
Effects of Overexposure: IRRITATION, DROWSINESS, DIZZINESS, NAUSEA,
VOMITING, HEADACHE, WEAKNESS, ABDOMINAL DISCOMFORT, DRYNESS OF
SKIN, DERMATITIS, ABDOMINAL PAIN, TEARING, BLURRED VISION.
Medical C
ond Aggravated by Exposure: PRE-EXISTING DISEASES OF THE EYE,
SKIN, RESPIRATORY TRACT, & IMPAIRED CNS FUNCTIONS MAY BE AGGRAVATED
BY EXPOSURE TO THIS PRODUCT.

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

First Aid: CALL PHYSICIAN IF SYMPTOMS PERSIST. EYE: IMMEDIATELY FLUSH
WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN: WASH WITH SOAP &
WATER. INHALED: REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED.
ORAL: IF CONSCIOUS, DRINK WATER & INDUCE VOMITING. KEEP HEAD BELOW
HIPS TO PREVENT ASPIRATION. CALL PHYSICIAN IMMEDIATELY. NEVER GIVE
FLUID OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS
CONVULSIONS.

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

Flash Point Method: SCC
Flash Point: -11.1C, 12.F
FLAMMABLE GAS
Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, SAND, FOAM, DRY
CHEMICAL. COOL FIRE-EXPOSED CONTAINERS WITH WATER.
Fire Fighting Procedures: CLEAR FORE AREA OF UNPROTECTED PERSONNEL. DO

NOT ENTER ANY ENCLOSED OR CONFINED AREA WITHOUT PROPER PROTECTIVE EQUIPMENT AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. 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.

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

Spill Release Procedures:EVACUATE AREA. WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. CONTAIN AND PICK UP SPILL WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND, EARTH, VERMICULITE OR NON-SPARKING TOOLS. PREVENT LIQUID FROM ENTERING SEWERS OR WATERWAYS.
Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN COOL, VENTILATED AREA AWAY FROM SOURCES OF IGNITION & INCOMPATIBLE MATERIALS. KEEP OUT OF REACH OF CHILDREN. DO NOT STORE ABOVE 120F.
Other Precautions:VERY FLAMMABLE. EMPTY CONTAINERS RETAIN RESIDUE. FOLLOW ALL PRECAUTIONS. DO NOT GET IN EYES. DO NOT BREATHE VAPOR OR MIST. AVOID PROLONGED OR REPEATED SKIN CONTACT. WASH THOROUGHLY AFTER HANDLING. DO NOT TAKE INTERNALLY.

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

Respiratory Protection:IF WORKING IN CONFINED AREAS, IF EXCESSIVE MISTING IS EXPECTED OR IF EXPOSURE MAY OR DOES EXCEED RECOMMENDED PERMISSIBLE EXPOSURE LIMITS (PEL), WEAR NIOSH-APPROVED RESPIRATORY PROTECTION FOR ORGANIC VAPORS (REFER TO 29 CFR 1910.134).
Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).
Protective Gloves:NEOPRENE IF REPEATED CONTACT POSSIBLE
Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES
Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, INDUSTRIAL-TYPE WORK CLOTHING, APRON
Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURE

S. WASH THOROUGHLY BEFORE EATING,
DRINKING/SMOKING.

Supplemental Safety and Health

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

HCC:V3

NRC/State Lic Num:NOT RELEVANT

Vapor Density:>1

VOC Grams/Liter:5.95

Evaporation Rate & Reference: