

SANDSTROM PRODUCTS COMPANY -- #238 DFL (MIL-L-23398D TYPE I) -- 9150-00-954-7422

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Product Identification  
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Product ID:#238 DFL (MIL-L-23398D TYPE I)

MSDS Date:02/25/1997

FSC:9150

NIIN:00-954-7422

MSDS Number: CCHWK

=== 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:309-5

23-2121

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

CAGE:34227

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Composition/Information on Ingredients  
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Ingred Name:PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

CAS:108-65-6

RTECS #:A18295000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:NOT ESTABLISHED.

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: 45-50%  
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:BASIC LEAD PHOSPHITE  
CAS:12141-20-7  
Fraction by  
Wt: 1 - 5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:RULE IN PROCESS  
ACGIH TLV:0.15 MG PB/M3

Ingred Name:ANTIMONY TRIOXIDE (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 E

POXY RESIN

CAS:25036-25-3

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT KNOWN.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, CNS, LIVER, KIDNEY, LUNG. ACUTE- EYE/SKIN:MAY CAUSE IRRITATION. INHALE:MAY CAUSE CNS DEPRESSION. REPEATED/PROLONGED OVEREXPOSURE TO SOLVENT

MAY CAUSE PERMANENT BRAIN & NERVOUS SYSTEM DAMAGE. ORAL:MAY CAUSE RED BLOODCELL HEMOLYSIS, LIVER, KIDNY DAMAGE. CHRONIC- DERMATITIS, LIVER, KIDNEY DAMAGE.

Explanation of Carcinogenicity:CONTAINS LEAD.

Effects of Overexposure:IRRITATION, DROWSINESS, DIZZINESS, NAUSEA, VOMITING, HEADACHE, WEAKNESS, ABDOMINAL DISCOMFORT, DRYNESS OF SKIN, DERMATITIS, ABDOMINAL PAIN, TEARING, BLURRED VISION, CONSTIPATION, JOINT PAIN

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTIN

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DISEASES OF THE EYE, SKIN, RESPIRATORY TRACT, LIVER, KIDNEYS, CNS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

===== 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:44.0F,6.7C

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, SAND, FOAM, DRY CHEMICAL. COOL FIRE-EXPOSED CONTAINERS WITH WATER.

Fire Fighting Procedures:DO NOT ENTER ANY ENCLOSED OR CONFINED AREA WITHOUT PROPER PROTECTIVE EQUIPM

ENT 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: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 PROCEDURES. WASH THOROUGHLY BEFORE EATING,  
DRINKING/SMOKING.

Supplemental Safety and Health  
FOR

MULA CHANGED. FOR PREVIOUS FORMULATION, SEE PNI A, SAME NSN.

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

HCC:F2

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=78.C, 172.4F

Vapor Density:>1

Spec Gravity:1.061 - 1.109

Evaporation Rate & Reference:0.00 (N-BUTYL ACETATE=1)

Appearance and Odor:LIQUID, SOLVENT ODOR

Percent Volatiles by Volume:63- 67

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS,

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:HEAT, SPARKS, FLAMES AND OTHER SOURCES OF  
IGNITION

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, LEAD  
OXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED.

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

Waste Disposal Methods:DISPOSAL SHOULD BE IN ACCORDANCE WITH ALL LOCAL,  
STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.  
RECYCLING IS RECOMMENDED.

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vided with this information by the compiling agencies):

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