

SANDSTROM PRODUCTS COMPANY -- DRY FILM LUBRICANT,27 A (MIL-L-46147 A TYPE I) --
9150-01-360-1907

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

Product ID:DRY FILM LUBRICANT,27 A (MIL-L-46147 A TYPE I)

MSDS Date:04/30/1998

FSC:9150

NIIN:01-360-1907

MSDS Number: BSTZW

=== Responsible Party ===

Company Name:SANDSTROM PRODUCTS COMPANY

Address:224 SOUTH MAIN STREET

City:PORT BYRON

State:IL

ZIP:61275

Country:US

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Info Phone Num:309-523-2121

Emergency Phone Num:309-523-2121

Preparer's Name:NONE

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:PROPYLENEGLYCOL MONOMETHYL ETHER ACETATE

CAS:108-65-6

RTECS #:AI8295000

Other REC Limits:NONE RECOMMENDED

OS

HA PEL:NOT ESTABLISHED.
ACGIH TLV:NOT ESTABLISHED.

Ingred Name:CYCLOHEXANONE (SARA III)
CAS:108-94-1
RTECS #:GW1050000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:S, 25 PPM
ACGIH TLV:S, 25 PPM; 9394
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:METHYL ETHYL KETONE (2-BUTANONE) (MEK) (SARA III)
CAS:78-93-3
RTECS #:EL6475000
Minumum % Wt:45.
Maxumum % Wt:50.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:200 PPM
ACGIH TLV:200 PPM/300STEL;9394
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingre
d Name:BASIC LEAD PHOSPHITE/DIBASIC LEAD PHOSPHITE
CAS:12141-20-7
Minumum % Wt:1.
Maxumum % Wt:5.
Other REC Limits:NONE RECOMMENDED

Ingred Name:ANTIMONY TRIOXIDE (SARA III)
CAS:1309-64-4
RTECS #:CC5650000
Minumum % Wt:1.
Maxumum % Wt:5.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.5 MG (SB)/M3
ACGIH TLV:0.5 MG (SB)/M3; 9394
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

Ingred Name:BISPHENOL A EPOXY

RESIN
CAS:25036-25-3
Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE- EYE CONTACT MAY CAUSE IRRITATION & CORNEAL INJURY. ABSORPTION THROUGH SKIN CAN OCCUR. MAY DRY SKIN. INHALATION MAY CAUSE IRRITATION & CNS DEPRESSION. INGESTION MAY CAUSE CNS DEPRESSION, LIVER & KIDNEY DAMAGE. CHRONIC- SKIN DEFATTING& DERMATITIS. TARGET ORGANS:CNS, EYES, SKIN, LUNGS, LIVER, KIDNEYS, GI TRACT.
Explanation of Carcinogenicity:CONTAINS LEAD. NONE OR THE COMPONENTS OF THIS PRODUCT ARE RECOGNIZED AS CARCINOGENIC.
Effects of Overexposure:EYES, SKIN, RESPIRATORY AND GASTRO-INTESTINAL TRACTS IRRITATION, HEADACHE, DIZZINESS, NAUSEA, VOMITING, BRAIN, LIVER & KIDNEY DAMAGE
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED CNS OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN:WASH WITH SOAP & WATER. EYE:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:IF UNCONSCIOUS, DRINK TWO GLASSES OF WATER & INDUCE VOMITING. IF VOMITING, KEEP VICTIM'S HEAD BELOW HIS HIPS. GET IMMEDIATE MEDICAL ATTENTION.

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

Flash Point Method:SCC
Flash Point:=-6.7C, 44.F
44 +/-2 F
Extinguishing Media:USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON DIOXIDE.
Fire Fighting Procedures:WARNING! FLAMMABLE. CLEAR AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT HELMET, FACE SHIELD, BUNKER COAT,GLOVES, RUBBER BOOTS, AND A POSITIVE PRESSURE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unu

sual Fire/Explosion Hazard:CONTAINER EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRES-SURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME SHOULD BE COOLED WITH LARGE QUANTITIES OF WASTER AS NEEDED TO PREVENT WEAKING OF CONTINER STRUCTURE.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. REMOVE SOURCES OF IGNITION. VENTILATE A
REA. ABSORB LIQUID WITH NON-FLAMMABLE
ABSORBENT MATERIALS SUCH AS CLAY, SAND AND PLACE IN CONTAINER FOR DISPOSAL. PREVENT SPILLS FROM ENTERING SEWERS OR WATERWAYS.
Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE CONTAINERS IN COOL, WELL VENTILATED AREAS AWAY FROM SOURCES OF IGNITION SUCH AS SPARKS, FLAMES, WELDING ARCS & INCOMPATIBLE MATERIALS.
Other Precautions:"EMPTY" CONTAINERS RETAIN
RESIDUE AND CAN BE
DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS. THEY MAY EXPLODE AND CAUSE INJURY. AVOID RE PEATED OR PROLONGED SKIN CONTACT.

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

Respiratory Protection:AVOID PROLONGED OR REPEATED BREATHING OF VAPORS/DUST. IF EXPOSURE EXCEEDS TLV USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE.
Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF)
VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).
Protective Gloves:PLASTIC, RUBBER
Eye Protection:CHEMICAL SAFETY GOGGLES(PREVENT CONTACT)
Other Protective Equipment:EYE WASH STATION & SAFETY SHOWERS SHOULD BE AVAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EXPOSURE.
Work Hygienic Practices:USE ONLY AS DIRECTED ON LABEL. READ LABEL BEFORE USING PRODUCT. DO NOT BREATHE VAPORS. WASH HANDS BEFORE EATING.
Supplemental Safety and Health
FLAMMABLE. DO NO

USE IN CONFINED AREA OR AREA WITH LITTLE AIR
MOVEMENT. EMPLOY MEANS TO PREVENT VAPOR BUILDUP. KEEP OUT OF REACH
OF CHILDREN.

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

HCC:F2
NRC/State Lic Num:NOT RELEVANT
Boiling Pt:B.P. Text:NOT KNOWN
Vapor Density:>1
Spec Gravity:1.09
pH:3.00
VOC Grams/Liter:5.85
Evaporation Rate & Reference:0.00 (BUTYL ACETATE=1)
Appearance and Odor:LUBRICANT
Percent Volatiles by Volume:83.4

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, STRONG ACIDS
Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES
Hazardous Decomposition Products:LEAD OXIDE FUMES, CARBON MONOXIDE,
CARBON DIOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED
DURING COMBUSTION.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LO
CAL, STATE
AND FEDERAL REGULATIONS.

===== Regulatory Information =====

SARA Title III Information:LISTED BY SARA: METHYL ETHYL KETONE, DIBASIC
LEAD PHOSPHITE, ANTIMONY TRIOXIDE.

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