

SANDSTROM PRODUCTS COMPANY -- 238 DFL, AEROSOL, MIL-L-233980, EPOXY --
9150-01-260-2534

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

Product ID:238 DFL, AEROSOL, MIL-L-233980, EPOXY

MSDS Date:09/08/1998

FSC:9150

NIIN:01-260-2534

Status Code:A

MSDS Number: CKCCL

=== Responsible Party ===

Company Name:SANDSTROM PRODUCTS COMPANY

Address:224 SOUTH MAIN STREET

Box:547

City:PORT BYRON

State:IL

ZIP:61275-9501

Cou

ntry:US

Info Phone Num:309-523-2121

Emergency Phone Num:309-523-2121

Resp. Party Other MSDS Num.:E635-G75

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

Contract Num:SP0450-99-D-0419

CAGE:34227

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

Ingred Name:PROPYLENE GLYCOL METHYL ETHER ACETATE

CAS:108-65-6

RT

ECS #:A18925000

Ingred Name:CYCLOHEXANONE
CAS:108-94-1
RTECS #:GW1050000
OSHA PEL:200 MG/M3;50 PPM
ACGIH TLV:100 MG/M3;25 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:METHYL ETHYL KETONE
CAS:78-93-3
RTECS #:EL6475000
Minumum % Wt:30.
Maxumum % Wt:35.
OSHA PEL:590 MG/M3;200 PPM
ACGIH TLV:590 MG/M3;200 PPM
ACGIH STEL:885 MG/M3;300 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ANTIMONY TRIOXIDE
CAS:1309-64-4
RTECS #:CC5650000
Minumum % Wt:1.
Maxumum % Wt:5.
OSHA PEL:0.5
MG/M3
ACGIH TLV:0.5 MG/M3
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:MOLYBDENUM DISULFIDE
CAS:1317-33-5
RTECS #:QA4697000

Ingred Name:BISPHENOL"A" EPOXY RESIN
CAS:25036-25-3

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

Ingred Name:DIMETHYL ETHER
CAS:115-10-6
RTECS #:PM4780000

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:EYES: MODERATELY IRRITATING. CORNEA

L

INJURY. SKIN: MODERATELY IRRITATING. PROLONGED CONTACT MAY CAUSE DAMAGE. ABSORPTION MAY RESULT IN SYMPTOMS DESCRIBED FOR INHALATION AND INGESTION. PROLONGED AND RE PEATED CONTACT MAY RESULT IN DEFATTING AND DRYING THAT MAY RESULT IN DERMATITIS. INHALATION: IRRITATION OF NOSE, THROAT, RESPIRATORY TRACT, MUCOUS MEMBRANES, CENTRAL NERVOUS SYSTEM DEPRESSION, CARDIAC ARRHYTHMIAS, LUNG DAMAGE. REPORTS HAVE ASSOCIATED PROLONGED OVEREXPOSURE TO SOLVENTS WITH PERMANEN

T BRAIN AND NERVOUS SYSTEM DAMAGE.

INGESTION: MODERATELY TOXIC. MAY CAUSE CNS DEPRESSION, GI TRACT IRRITATION, LIVER AND KIDNEY INJURY.

Explanation of Carcinogenicity:NONE OF THE INGREDIENTS IN THIS PRODUCT ARE CONSIDERED CARCINOGENIC.

Effects of Overexposure:EYES: IRRITATION, CORNEAL INJURY. SKIN: IRRITATION, SKIN DAMAGE, DEFATTING, DRYING, DERMATITIS. INHALATION: IRRITATION OF NOSE, THROAT, RESPIRATORY TRACT, MUCOUS MEMBRANES. CENTRAL NERVOUS SYSTEM DEPR ESSION, CARDIA

C ARRHYTHMIAS, BRAIN

DAMAGE, NERVOUS SYSTEM DAMAGE, LUNG DAMAGE. INGESTION: MODERATELY TOXIC, CNS DEPRESSION, GI TRACT IRRITATION, KIDNEYS AND LIVER INJURY. CENTRAL NERVOUS SYSTEM DEPRESS ION MAY BE EVIDENCE BY HEADACHE, DIZZINESS, NAUSEA AND SYMPTOMS OF INTOXICATION; IN EXTREME CASES UNCONSCIOUSNESS AND DEATH MAY OCCUR.

Medical Cond Aggravated by Exposure:SKIN, EYE, RESPIRATORY DISORDERS, IMPAIRED CENTRAL NERVOUS SYSTEM FUNCTIONS FROM PREEXISTING DISORDERS MAY BE AGGR

AVATED BY EXPOSURE TO THIS PRODUCT.

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

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING AND SHOES. WIPE EXCESS FROM SKIN AND FLUSH WITH WATER USING SOAP. IF IRRITATION OCCU RS, GET MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTE

NTION. INGESTION: DILUTE WITH 2 GLASSE S OF WATER UNLESS VICTIM IS UNCONSCIOUS. INDUCE VOMITING BY GIVING AN EMETIC OR TOUCHING A FINGER TO BACK OF THROAT. KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION TO LUNGS. GET MEDICAL ATTENTION.

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

Flash Point Method:SCC

Flash Point:=-11.1C, 12.F
+ /- 2 DEG F

Autoignition Temp:Autoignition Temp Text:NP

Lower Limits:NP

Upper Limits:NP

Extinguishing Media:WATER FOG, FOAM, DRY C

HEMICAL OR CARBON DIOXIDE.

Fire Fighting Procedures:WARNING, FLAMMABLE. CLEAR FIRE 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.

Unusual Fire/Explosion Hazard:CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO

DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

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

Spill Release Procedures:WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, USE WATER FOG TO SUPPRESS; PREVENT RUN-OFF. REMOVE WITH VACUUM TRUCK OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP

RESIDUE WITH ABSORBENT SUCH AS CLAY, SAND. PLACE IN NON-LEAKING CONTAINER. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE. DISPOSE OF FLUSH WATER AS PER SPILL.

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

Handling and Storage Precautions:KEEP LIQUID, VAPOR AWAY FROM HEAT, SPARKS, FLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES. TURN OFF OTHER POSSIBLE SOURCES OF IGNITION PRIOR TO USE AND UNTIL VAPORS ARE GONE. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE PRODUCT IN ABSENCE OF SPARKS OR FLAMES.

Other Precautions:VAPORS MAY TRAVEL TO IGNITION SOURCES DISTANT FROM HANDLING SITE. KEEP CONTAINERS CLOSED. USE WITH ADEQUATE VENTILATION. CONTAINERS, EVEN IF EMPTY, CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, WELD NEAR CONTAINERS. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, USING TOILET FACILITIES.

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

Respiratory Protection:AVOID PROLO

NGED OR REPEATED BREATHING OF VAPORS
AND DUST. IF EXPOSURE EXCEEDS TLV USE A NOISH-APPROVED RESPIRATOR
TO PREVENT OVEREXPOSURE.

Ventilation:PROPER VENTALATION AS REQUIRED TO CONTROL VAPOR/DUST
CONCENTRATIONS.

Protective Gloves:WEAR GLOVES TO AVOID SKIN CONTACT.

Eye Protection:WEAR GOGGLES. AVOID CONTACT WITH EYES.

Other Protective Equipment:EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD
BE AVAILABLE FOR USE IN LEMERGENCY.

Work Hygienic Practices:DO NOT GET ON SKIN OR ON CLOTHING. W
ASH WITH

SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET
FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

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

HCC:V3

NRC/State Lic Num:NA

Boiling Pt:B.P. Text:NA

Melt/Freeze Pt:M.P/F.P Text:NA

Decomp Temp:Decomp Text:NA

Vapor Density:>1 AIR=1

Spec Gravity:0.92

VOC Grams/Liter:5.95

Evaporation Rate & Reference: