

SANDSTROM PRODUCTS COMPANY -- HI-T-650 HIGH TEMPERATURE SOLID FILM LUBRICANT --
9150-01-021-4854

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

Product ID:HI-T-650 HIGH TEMPERATURE SOLID FILM LUBRICANT

MSDS Date:06/27/2001

FSC:9150

NIIN:01-021-4854

Status Code:A

MSDS Number: CLGGH

=== Responsible Party ===

Company Name:SANDSTROM PRODUCTS COMPANY

Address:218 HIGH STREET

City:PORT BYRON

State:IL

ZIP:61275-9501

Country:US

Info Phone Num:309-523-2121

Emergency Phone Num:(800)

424-9300

Resp. Party Other MSDS Num.:S765-075

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:SP0450-01-M-LK16

CAGE:34227

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

Ingred Name:TOLUENE

CAS:108-88-3

RTECS #:XS5250000

Minumum % Wt:50.

Maxumum % Wt:55.

OSHA PEL:SEE TABLE Z-2

ACGIH TLV:188 MG

/M3;50 PPM
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:XYLENE
CAS:1330-20-7
RTECS #:ZE2100000
Minumum % Wt:15.
Maxumum % Wt:20.
ACGIH TLV:434 MG/M3;100 PPM
ACGIH STEL:651 MG/M3;150 PPM
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:ETHYLBENZENE
CAS:100-41-4
RTECS #:DA0700000
Minumum % Wt:1.
Maxumum % Wt:5.
OSHA PEL:435 MG/M3;100 PPM
ACGIH TLV:434 MG/M3;100 PPM
ACGIH STEL:543 MG/M3;125 PPM
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:ANTIMONY TRIOXIDE
CAS:1309-64-4
RT
ECS #:CC5650000
Minumum % Wt:5.
Maxumum % Wt:10.
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

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:EYES: MAY CAUSE CORNEAL INJURY. SKIN:
MODERATELY IRRITATING TO THE SKIN OR MAY C

AUSE DAMAGE. DEFATTING &

DRYING MAY RESULT IN DERMATITIS. INHALATION: MAY PRODUCE IRRITATION TO THE NOSE, THROAT, RESPIRATORY TRACT, & OTHER MUCOUS MEMBRANES. MAY PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION. INGESTION: MODERATELY TOXIC. SMALL AMOUNTS OF THE LIQUID ASPIRATED INTO THE LUNGS DURING INGESTION OR FROM VOMITING MAY RESULT IN SEVERE LUNG DAMAGE. MAY CAUSE CENTRAL NERVOUS SYSTEM DAMAGE.

Explanation of Carcinogenicity:THIS PRODUCT CONTAINS ANTIMONY TRIOXIDE.

Eff

Effects of Overexposure:EYE, SKIN, RESPIRATORY, AND GASTRO-INTESTINAL IRRITATION. CENTRAL NERVOUS SYSTEM DEPRESSION MAY BE EVIDENCED BY HEADACHE, DIZZINESS, NAUSEA AND SYMPTOMS OF INTOXICATION; IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR.

Medical Condition Aggravated by Exposure:PREEXISTING SKIN, EYE & RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED CNS FUNCTIONS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

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

First Aid:EYE: IMMEDIATELY FLUSH EYES W/ WATER FOR AT LEAST 15 MINS. SKIN: REMOVE CONTAMINATED CLOTHING & SHOES. WIPE EXCESS FROM SKIN & FLUSH W/ WATER USING SOAP IF AVAILABLE. INHALATION: REMOVE VICTIM TO FRESH AIR & TREAT SYMPTOMATICALLY. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF THE VICTIM IS NOT BREATHING. INGESTION: DO NOT INDUCE VOMITING. IF VOMITING SPONTANEOUSLY

OCCURS, KEEP THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS. KEEP MEDICAL ATTENTION AS NEEDED FOR ALL ROUTES OF EXPOSURE.

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

Flash Point Method:SCC

Flash Point:=-12.2C, 54.F

+/-2 DEGREES F

Extinguishing Media:USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

Fire Fighting Procedures:WARNING. FLAMMABLE. CLEAR FIRE AREA OR UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT HELMETS

MET, 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.

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== Accidental Release Measures =====

Spill Release Procedures: EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR & PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE & CONTAIN. IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE W/ VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE W/ AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL.

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=== 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 & UNTIL VAPORS ARE GONE. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE PRODUCT IN THE ABSENCE OF SPARKS OR FLAME.

Other Precautions: VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM HANDLING SITE. KEEP CONTAINERS CLOSED WHEN NOT IN USE.

USE WITH ADEQUATE VENTILATION. CONTAINERS, EVEN IF EMPTY, CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND OR WELD NEAR CONTAINERS. CONTAINERS CAN CONTAIN HAZARDOUS PRODUCT RESIDUES.

===== 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: USE VENTILATION AS REQUIRED TO CONTROL VAPOR/

DUST
CONCENTRATIONS.
Eye Protection:WEAR GOGGLES IF THERE IS A LIKELIHOOD OF CONTACT WITH EYES.
Other Protective Equipment:EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR USE IN AN EMERGENCY.
Work Hygienic Practices:AVOID PROLONGED OR REPEATED BREATHING OF VAPORS/DUST. AVOID CONTACT WITH EYES. DO NOT GET ON SKIN OR ON CLOTHING.
Supplemental Safety and Health
MFG. CODE ID: S765-075

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

HCC:F2
Perc
ent Volatiles by Volume:93.31 +/-2%

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

Stability Indicator/Materials to Avoid:YES
AVOID OXIDIZING MATERIALS AND STRONG ACIDS.
Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:REFER TO LATEST EPA OR STATE REGULATIONS
REGARDING PROPER DISPOSAL.

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

SARA Title III Information:THE FOLLOWING CHEMICALS ARE LISTED ON SECTION 313 OF TITLE III OF THE SARA OF 1986 AND 40 CFR PART 372: TOLUENE, XYLENE, ETHYL BENZENE, & ANTIMONY TRIOXIDE.
State Regulatory Information:PROPOSITION 65: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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