

MAGNAFLUX -- ZYGLO PENETRANT ZL-27A -- 6850-01-268-6706

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

Product ID:ZYGLO PENETRANT ZL-27A

MSDS Date:05/04/1999

FSC:6850

NIIN:01-268-6706

Status Code:A

MSDS Number: CJKFF

=== Responsible Party ===

Company Name:MAGNAFLUX

Address:3624 WEST LAKE AVENUE

City:GLENVIEW

State:IL

ZIP:60025

Country:US

Info Phone Num:847-657-5300

Emergency Phone Num:847-657-5300

Preparer's

Name:CHERI A. STOCKHAUSEN

Chemtrec Ind/Phone:(800)424-9300

CAGE:37676

=== Contractor Identification ===

Company Name:ILLINOIS TOOL WORKS INC MAGNAFLUX DIV

Address:3624 WEST LAKE AVENUE

Box:City:GLENVIEW

State:IL

ZIP:60025

Country:US

Phone:847-657-5300/

Contract Num:SP0450-99-M-C622

CAGE:37676

Company Name:ILLINOIS TOOL WORKS INC MAGNAFLUX DIV

Address:3624 WEST LAKE AVENUE

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ZIP:60025

Country:US

Phone:847-657-5300/

Contract Num:SP0450-99-M-NJ01

CAGE:37676

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Composition/Information on Ingredients =====

Ingred Name:WHITE MINERAL OIL (PETROLEUM)

CAS:8042-47-5

RTECS #:PY8047000

Minumum % Wt:30.

Maxumum % Wt:60.

Other REC Limits:NONE RECOMMENDED

Ingred Name:ISODECYL DIPHENYL PHOSPHATE

CAS:29761-21-5

Minumum % Wt:30.

Maxumum % Wt:60.

Other REC Limits:NONE RECOMMENDED

Ingred Name:CASTOR OIL

CAS:8001-79-4

RTECS #:FI4100000

Minumum % Wt:10.

Maxumum % Wt:30.

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:TLV:5MG/M3 FOR OILY MIST.

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

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

Health Hazards Acute and Chronic:TARGET ORGANS: NOT PROVIDED. ACUTE -

EYES: MAY CAUSE IRRITATION. SKIN CONTACT: CAN IRRITATE BY REMOVING
NATURAL SKIN OILS ON LONG OR REPEATED EXPOSURES. INHALATION: NOT
SIGNIFICANT AT ROOM TEMPERATURE S. WHEN HEATED OR SPRAYED, VAPORS
MAY CAUSE DIZZINESS AND NAUSEA. INGESTION: NOT S

IGNIFICANT IN SMALL

(MOUTHFUL) AMOUNTS. CHRONIC - NOT PROVIDED.

Explanation of Carcinogenicity:PER MSDS:CONTIANS NO KNOWN OR SUSPECTED
CARCINOGENS LISTED WITH OSHA,IARC,NTP,ACGIH.

Effects of Overexposure:IRRITATION, DIZZINESS, NAUSEA

Medical Cond Aggravated by Exposure:NONE

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

First Aid:INHALATION: REMOVE TO FRESH AIR IF DIZZY OR NAUSEATED. EYE

CONTACT: RINSE CAREFULLY UNDER UPPER AND LOWER EYELIDS USING PLENTY

O

F WATER. SKIN CONTACT: WASH OFF WITH SOAP AND WATER. USE SOOTHING LOTION. INGESTION: DO NOT INDUCE VOMITING. ACCIDENTAL INGESTION OF A SMALL MOUTHFUL IS NOT EXPECTED TO CAUSE SIGNIFICANT HARM. NOTE: IN ALL SEVERE CASES, CONTACT PHYSICIAN IMMEDIATELY. LOCAL TELEPHONE OPERATORS CAN FURNISH NUMBER OF REGIONAL POISON CONTROL CENTER.

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

Flash Point Method:PMCC

Flash Point:=93.3C, 200.F

MINIMUM

Lower Limits:1

Upper

Limits:6

Extinguishing Media:CARBON DOXIDE, FOAM

Fire Fighting Procedures:KEEP CONTAINERS COOL WITH WATER SPRAY. DO NOT SPRAY WATER DIRECTLY ON BURNING ZL-27A. IT MAY FLOAT AND SPREAD THE FIRE.

Unusual Fire/Explosion Hazard:CONDITION OF FLAMM---BULK:HEATING ABOVE 200F IN PRESENCE OF IGN SOURCES.AEARSOL:SPRAYING NEAR FLAMES OR ARCS WILL IGNITE SPRAY MIST. AEROSOL CANS MAY BURST AT TEMPERATURES OVER 130F(64C)AND SPRAY CO NTENTS INTO FIRE.

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

Spill Release Procedures:MOP UP OR SWEEP UP WITH ABSORBENT.

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

Handling and Storage Precautions:STORE AWAY FROM HEAT SOURCES.

Other Precautions:AVOID BREATHING SPRAY MIST. AVOID EYE CONTACT. AVOID REPEATED OR PROLONGED SKIN CONTACT.

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

Respiratory Protection:RESPIRATOR WITH FILTER IF SPRAYED IN ENCLOSED, UNVENTILATED SPACE.

Protective Gloves:NITRILE RUBBER

Eye Protection:SAFETY GLASSES

Other Protective Equipment:CONTROLS:NONE,UNLESS APPLIED AS SPRAY.USE WHERE VENTI WILL CARRY SPRAY MIST AWAY FROM OCCUPIED AREAS.

Supplemental Safety and Health

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

HCC:V5

Boiling Pt:=235.6C, 456.F

B.P. Text:MINIMUM

Vapor Pres:1

Spec Gravity:0.96

pH:NEUTRAL

Evaporation Rate & Reference:NEGLIGIBLE

Solubility in Water:0%

Appearance and Odor:GREEN OILY LIQUID, MI

LD ODOR.

Percent Volatiles by Volume:NONE

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

Stability Indicator/Materials to Avoid:YES

NONE

Hazardous Decomposition Products:SOOT, OXIDES OF CARBON IF HEATED TO COMBUSTION TEMPERATURES. HAZ COMBUST PROD:SMOKE, SOOT, OXIDES OF CARBON & NITROGEN.

===== Toxicological Information =====

Toxicological Information:CONTIANS NO KNOWN OR SUSPECTED CARCINOGENS

LISTED W/OSHA/IARC/NTP/ACGIH.TLV=5MG/

M3 FOR OILY MIST. WHMIS

INFO(CANADA):ACCORDING TO AVAI INFO INGREGS HAVE NOT BEEN FOUND TO SHOW REPRODUCTIVE TOXICITY,TE RATOGENICITY,MUTEGENICITY,SKIN SENSITIZATION OR SYNERGISTIC TOXIC EFFECTS W/OTHER MATLS.

===== Ecological Information =====

Ecological:NO DATA IS AVAI ON XL-27A. IT FLOATS ON WATER & CAN BE SKIMMED OFF. ITS LOW BULK VAPOR PRESSURE MAY EXEMPT IF FROM VOC RESTRICTIONS. THE HYDROCARBON PROPELLANT IS NOT AN OZONE DEPLETER

(AEROSOLS).

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

Waste Disposal Methods:AS A NON-HAZARDOUS OILY WASTE, INCINERATE OR SEND TO WASTE HANDLER WHO CAN BLEND IT INTO SECONDARY FUELS. RCRA: NOT A HAZARDOUS WASTE. U.S. EPA WASTE NUMBER: NONE.

===== MSDS Transport Information =====

Transport Information:PER MSDS:BULK:US DOT:49CFR172.101 HAZ MATLS TABLE/IATA/IMDG:PROPER SHIPPING NAME-NONE, NOT RESTRICTED;HAZ CLASS NONE;ID#

NONE;PKG GROUP NONE. FOR AEROSOLS: 49CFR172.101---CONSUMER COMMODITY, ORM-D, ID # NONE;PGK GROUP NONE; IATA-AEROSOLS, FLAMM, 2.1, UN 1950; IMDG AEROSOLS, 2.1, UN 1950.

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

SARA Title III Information:CERCLA: NOT REPORTABLE. SARA TITLE III, SECTION 313: NO REPORTABLE INGREDIENTS

Federal Regulatory Information:ALL OF THE INGREDIENTS PRESENT IN THIS PRODUCT ARE LISTED IN THE TOXIC SUBSTANCE CONTROL ACT (TSCA) INVE

NTORY.

State Regulatory Information:CALIFORNIA PROP 65:CONTAINS NOTHING ON THIS LIST.

===== Other Information =====

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