

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

Box:City:GLENVIEW

State:IL

ZIP:60025

Country:US

Phone:847-657-5300/

Contract Num:SP0450-99-M-NJ01

CAGE:37676

=====

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 DIOXIDE, 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 =====

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing th

is

document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.