

MAGNAFLUX CORPORATION -- ZL-38 ZYGLO PENETRANT -- 6850-01-263-8225

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

Product ID:ZL-38 ZYGLO PENETRANT

MSDS Date:04/10/1986

FSC:6850

NIIN:01-263-8225

Kit Part:Y

MSDS Number: BGRPY

=== Responsible Party ===

Company Name:MAGNAFLUX CORPORATION

Address:7300 W. LAWRENCE AVENUE

City:CHICAGO

State:IL

ZIP:60656-3504

Country:US

Info Phone Num:312-867-8000

Emergency Phone

Num:312-867-8000

Preparer's Name:BRUCE C. GRAHAM

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/

CAGE:37676

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

Ingred Name:PARAFFIN OILS(PETROLEUM),C5-C20

CAS:64771-72-8

Fraction by Wt: 20.0%

Other REC Limits:300PPM

Ingred Name:UNIDENTIFIED COMPONENTS

Fraction by Wt: 80.0%

=====

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

Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:IRRITATES EYES.
Effects of Overexposure:INHALATION:CAUSES DIZZINESS,DROWSINESS,NAUSEA;
SKIN:LIQUID IRRITATES BY DISSOLVING SKIN OIL; EYES:VAPORS/LIQUID
CAUSES IRRITATION.
Medical Cond Aggravated by Exposure:NOT KNOWN.

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

Fi
rst Aid:INHALATION:REMOVE TO FRESH AIR.IF BREATHING IS DIFFICULT,GIE
OXYGEN; SKIN:REMOVE CONTAMINATED CLOTHES.WASH OFF WITH FLOWING
WATER.USE SOOTHING LOTION.IF IRRITATION PERSISTS,GET MEDICAL ATTN;
EYES:IMME DIATELY RINSE/FLUSH WITH COPIOUS AMOUNTOF RUNNING
WATER,AND GET MEDICAL ATTENTION.

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

Flash Point Method:PMCC
Flash Point:>200F/>93C
Extinguishing Media:CARBON DIOXIDE,FOAM.
Fire Fighting Procedures:KEEP CON
TAINERS COOL WITH WATER SPRAY.
Unusual Fire/Explosion Hazard:WHEN INVOLVE IN COMBUSTION,MAY EMIT TOXIC
GASES AT OR ABOVE DECOMPOSITION TEMPERATURE.

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

Spill Release Procedures:REMOVE IGNITION SOURCES.SM QTY:WIPE UP OR MOP
UP BUT DO NOT BREATHE VAPORS.PLACE RAGS IN CLOSED DRUMS; LG
QTY:WEAR PERSONAL SAFETY EQUIPMENTS.DIKE AREA FAR AHEAD.ABSORB
LIQUID WITH COMMERCIAL ABSORBEN T.TRANSFER WASTE MATL IN SALVAGE
TAN
KS.

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

Handling and Storage Precautions:STORE AWAY FROM HEAT SOURCES IN WELL
VENTILATED AREA.AVOID AGAINST PHYSICAL DAMAGE TO CONTAINERS.KEEP
CONTAINERS TIGHTLY CLOSED.
Other Precautions:DO NOT BREATHE VAPORS.DO NOT SMOKE WHILE USING.DO NOT
HEAT ABOVE 130F(54C).AVOID FREQUENT OR PROLONGED SKIN CONTACT.

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

Respiratory Protection:WEAR RESPIRATOR WITH CHE

MICAL CARTRIDGE IF USING

IN POORLY VENTILATED AREA.AVOID BREATHING VAPOR OR SPRAY MIST.

Ventilation:GENERAL VENTILATION TO KEEP BELOW LIMITS OF TLV.

Protective Gloves:NITRILE GLOVES IF USING FREQUENTLY.

Eye Protection:FULL GOGGLES WHEN SPRAYING OR POURING.

Other Protective Equipment:USE IN SPRAY BOOTH OR WHERE VENTILATION IS ADEQUATE TO CARRY VAPORS & OVERSPRAY FROM OCCUPIED AREAS.

Work Hygienic Practices:LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.WASH THOROUGHLY AFTER HANDLING.

Suppl

emental Safety and Health

ITEM IS A 2 PARTS KIT;UNDER QPL-25135-15 OF MIL-I-25135D,THE KIT OF TYPE I,METHOD B,LEVEL 4 MAY CONSIST OF ZL-30B,ZL-37,OR ZL-38 PENETRANT & ZE-3 OR ZE-4B EMULSIFIER;SEE PNI D & E FOR EMULSIFIER DATA ;KEY1:N1;THIS ENTRY DESCRIBES ZL-38; SEE PNI A & B FOR OTHER QUALIFIED PENETRANTS & PNI D & E FOR EMULSIFIER OF THIS NSN

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

HCC:N1

Boiling Pt:B.P. Text:410F/210C

Vapor Pres:1.0

Spec Gravity

:0.92

Solubility in Water:NEGLIGIBLE

Appearance and Odor:GREEN OILY LIQUID.

Percent Volatiles by Volume:5%

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

Stability Indicator/Materials to Avoid:YES

NONE KNONW.

Stability Condition to Avoid:HEAT,HIGH TEMPERATURES.

Hazardous Decomposition Products:EMITS OXIDES OF CARBON AND NITROGEN ON COMBUSTION.

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

Waste Disposal Methods:INCINERATE OR DISPOSE OF AS EPA HAZARDOUS WASTE

D001 (IGNITABLE WASTE),IN ACCORDANCE WITH ALL APPLICABLE FEDERAL,STATE,LOCAL REGULATIONS.

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 this document should seek competent professional

advice to verify and
assume responsibility for the suitability of this information to their
particular situation.