

MAGNAFLUX CORPORATION -- ZL-22D ZYGLO PENETRANT -- 6850-01-263-8433

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

Product ID:ZL-22D ZYGLO PENETRANT
MSDS Date:11/17/1986
FSC:6850
NIIN:01-263-8433
MSDS Number: BGRRP
=== 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:312-8
67-8000
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:DISTILLATES,(PETROLEUM)HYDROTREATED MIDDLE
CAS:64742-46-7
RTECS #:JN9379645
Fraction by Wt: 25.0%

Ingred Name:KEROSENE
CAS:8008-20-6
RTECS #:OA5500000
Fraction by Wt: 10.0

%
ACGIH TLV:100MG/CUM

Ingred Name:DISTILATES(PETROLEUM),CATALYTIC REFORMER FRACTIONATER
RESIDUE,LOW BOILING
CAS:68477-31-6
Fraction by Wt: 20.0%

Ingred Name:UNIDENTIFIED COMPONENTS
Fraction by Wt: 45.0%

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE:IRRITATES EYES,MILDLY.
Effects of Overexposure:INHALATION:SPRAY MIST MAY IRRITATE TO BREATHING
PASSAGES; EYES:LIQUID CONTACT
MAY CAUSE IRRITATION; SKIN:SOLVENT IN
THE PRODUCT MAY IRRITATE SKIN; INGESTION:NOT NOTED BY MANUFACTURER.
Medical Cond Aggravated by Exposure:NOT STATED BY MANUFACTURER.

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

First Aid:INHALATION:REMOVE TO FRESH AIR.IF BREATHING IS DIFFICULT,GIVE
OXYGEN; SKIN:REMOVE CONTAMINATED CLOTHES.WASH OFF WITH FLOWING
WATER.USE SOOTHING LOTION.IF IRRITATION PERSISTS,GET MEDICAL ATTN;
EYES:IMM EDIATELY RINSE/FLUSH WITH COPIO
US AMOUNT OF 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 CONTAINERS COOL WITH WATER SPRAY.DO NOT
SPRAY ON BURNING PRODUCT.
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 ABSORBENT.T.TRANSFER WASTE MATL IN SALVAGE TANKS.

===== 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 A RESPIRATOR WITH CHEMICAL CARTRIDGE. IN CONFINED AREAS,WEAR A FULL MASK WITH SEPARATE AIR SUPPLY.

Ventilation:GENERAL VENTILATION TO KEEP BELOW 350PPM LIMIT.

Protective Gloves:NITRILE RUBBER GLOVES.

Eye Protection:FULL GOGGLES.W

HEN SPRAYING OR POURING.

Other Protective Equipment:EITHER USE IN A SPRAY BOOTH OR NEXT TO AN EXHAUST VENT.

Work Hygienic Practices:AVOID SKIN CONTACT.WASH THOROUGHLY AFTER HANDLING OR USE.LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

NSN FOR TYPE I,METHOD C,LEVEL 3 MATERIAL OF MIL-I-25135D;ZL-22D PENETRANT IS A QUALIFIED PRODUCT OF QPL-25135-15 FOR TYPE I,METH C,LEVEL 3;THE QPL ALSO SPECIFIED THAT THIS PENETRANT MAY BE A PART OF KI T WITH SEVERAL Q UALIFIED EMULSIFIERS.

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

HCC:N1

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

Vapor Pres:0.5 @100F

Vapor Density:>1.0

Spec Gravity:0.95

Solubility in Water:NEGLIGIBLE

Appearance and Odor:GREEN LIQUID WITH PETROLEUM DISTILLATE ODOR.

Percent Volatiles by Volume:5.0%

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

Stability Indicator/Materials to Avoid:YES

MFR STATED "NONE".

Stability Condition to Avoid:HEAT,HIGH TEMPERATURE

S.

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;IF LOCAL AUTHORIES PROHIBIT DUMPING RINSINGS DOWN THE SEWER,PUR IFY RINSINGS W/MAGNAFLUX WASTEWATER TREATMNT SYSTM

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.