

MAGNAFLUX CORPORATION -- ZL-22D ZYGLO PENETRANT -- 6850-01-263-8432

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Product Identification  
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Product ID:ZL-22D ZYGLO PENETRANT  
MSDS Date:11/17/1986  
FSC:6850  
NIIN:01-263-8432  
MSDS Number: BGRRH  
=== 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

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Composition/Information on Ingredients  
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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%

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CGIH TLV:100 MG/CUM

Ingred Name:DISTILLATES(PETROLUM),CATALYTIC REFORMER FRACTIONATER  
RESIDUE,LOW BOILING

CAS:68477-31-6

Fraction by Wt: 20.0%

Ingred Name:UNIDENTIFIED COMPONENTS

Fraction by Wt: 45.0%

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Hazards Identification  
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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 M

AY CAUSE IRRITATION; SKIN:SOLVENT IN

THE PRODUCT MAY IRRITATE SKIN; INGESTION:NOT NOTED BY MANUFACTURER.

Medical Cond Aggravated by Exposure:NOT STATED BY MANUFACTURER.

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First Aid Measures  
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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 COPIOUS  
AMOUNT OF RUNNING WATER  
AND GET MEDICAL ATTENTION.

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Fire Fighting Measures  
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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 WATER ON BURNING PRODUCT.

Unusual Fire/Explosion Hazard:WHEN INVOLVE IN COMBUSTION,MAY EMIT TOXIC  
GASES AT OR ABOVE DECOMPOSITION TEMPERATURE.

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Accidental Release Measures  
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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 WHEN 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,METHOD C,LEV 3;THE QPL ALSO SPECIFIED THAT THIS PENETRANT MAY BE A PART OF KIT WITH SEVERAL

QUALIFIED EMULSIFIERS FOR THE SAME AND/OR OTHER TYPE,METHOD & LEVEL.SEE OTHER PNI FOR OTHER PENETRANT.

===== 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 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: IF LOCAL AUTHORITIES PROHIBIT DUMPING RINSINGS DOWN THE SEWER, PURIFY RINSINGS W/MAGNAFLUX WASTEWATER TREATMENT SYS

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