

MAGNAFLUX CORPORATION -- ZL-22D ZYGLO PENETRANT -- 6850-01-268-6705

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Product Identification
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Product ID:ZL-22D ZYGLO PENETRANT

MSDS Date:11/17/1986

FSC:6850

NIIN:01-268-6705

MSDS Number: BGSCZ

=== Responsible Party ===

Company Name:MAGNAFLUX CORPORATION

Address:7300 W.LAWRENCE AVENUE

City:CHICAGO

State:IL

ZIP:60656

Country:US

Info Phone Num:312-867-8000

Emergency Phone Num:312-867-8000

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reparer'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%

ACGIH T

LV:100MG/CUM

Ingred Name:DISTILLATES(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%

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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 MAY CAU

SE 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 AMOUN

T 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 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. SMALL QUANTITY: WIPE UP OR MOP UP BUT DO NOT BREATHE VAPORS. PLACE RAGS IN CLOSED DRUMS; LARGE QUANTITY: WEAR PERSONAL SAFETY EQUIPMENT. DIKE AREA FAR AHEAD. ABSORB LIQUID WITH COMMERCIAL ABSORBENT. TRANSFER WASTE MATERIAL 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: WASH THOROUGHLY AFTER HANDLING OR USE. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

NSN FOR TYPE I, METHOD D, LEVEL 3 MATERIAL OF MIL-I-25135D ZL-22D PENETRANT IS A QUALIFIED PRODUCT OF QPL-25135-15 FOR TYPE I, METHOD D, LVL 3; THE QPL SPECIFIED THE PENETRANT CAN ALSO BE A PART OF KIT WITH ZR-10A EMULSIFIER; SEE PNI B FOR OTHER QUALIFIED PENETRANT FOR SAME TYPE, METHOD & LEVEL.

===== 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

id: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 AUTHORIES PROHIBIT DUMPING
RINSINGS DOWN THE SEWER,PUR IFY RINSINGS W/MAGNAFLUX WASTEWATER
TREATMNT SYSTM

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