

MAGNAFLUX CORPORATION -- ZL-22D ZYGLO PENETRANT -- 6850-01-268-6706

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

Product ID:ZL-22D ZYGLO PENETRANT

MSDS Date:11/17/1986

FSC:6850

NIIN:01-268-6706

MSDS Number: BGSDC

=== 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:312-867-800

0

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: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%

=====
===== 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:IMMEDIATELY RINSE/FLUSH WITH COPIOUS 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 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 A

void: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

Disclaimer (provided w

ith 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.