

MAGNAFLUX CORPORATION -- ZL-27A ZYGLO PENETRANT (PRE 11/1988) -- 6850-01-263-8221  
===== Product Identification =====

Product ID:ZL-27A ZYGLO PENETRANT (PRE 11/1988)

MSDS Date:06/04/1987

FSC:6850

NIIN:01-263-8221

Kit Part:Y

MSDS Number: BGRPB

=== Responsible Party ===

Company Name:MAGNAFLUX CORPORATION

Address:7300 W. LAWRENCE AVENUE

City:CHICAGO

State:IL

ZIP:60656-3504

Country:US

Info Phone Num:7

08-867-8000

Emergency Phone Num:708-867-8000

Preparer's Name:BRUCE C. GRAHAM, CH. CHEM

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: 10.0%

Ingred Name:KEROSENE

CAS:8

008-20-6  
RTECS #:OA5500000  
Fraction by Wt: 05.0%  
ACGIH TLV:100MG/CUM

Ingred Name:DISTILATES(PETROLEUM),CATALYTIC REFORMER FRACTIONATER  
RESIDUE,LOW BOILING  
CAS:68477-31-6  
Fraction by Wt: 25.0%

Ingred Name:UNIDENTIFIED COMPONENTS  
Fraction by Wt: 60.0%

===== 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 ATT  
N;  
EYES:IMM EDIATELY 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.

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==== 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 OFF PROMPTLY WITH WATER.AVOID SKIN CONTACT.

Supplemental Safety and Health

PER QPL-25135-15 OF MIL-I-25135D,THE SET MAY CONSIST OF ZL-22D OR ZL-27A PENETRANT AND ZE-3 OR ZE-4B EMULSIFIER UNDER TYPE I METH B,LVL 3;THIS NSN HAS 2 PARTS IN THE SET; THIS ENTRY REPRESENTS ZL-27A PENETRANT (OLD FORMULATION); SEE PN INDE FOR NEW ITEM. SEE THE QPL FOR DETAILS FOR EMULSIFIER NAME;KEY1:N1.

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

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