

MAGNAFLUX CORPORATION -- ZL-27A ZYGLO PENETRANT -- 6850-01-117-2971

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

Product ID:ZL-27A ZYGLO PENETRANT

MSDS Date:06/04/1987

FSC:6850

NIIN:01-117-2971

MSDS Number: BGMMY

=== 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

===== 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:8008-20-6

RTECS #:OA5500000

Fraction by Wt: 05.0%

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CGIH 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 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 =====

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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 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:AVOID SKIN CONTACT.WASH THOROUGHLY AFTER HANDLING OR USE.LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.  
Supplemental Safety and Health  
NSN FOR TYPE I,METHOD B,LEVEL 3 MATERIAL OF MIL-I-25135D;ZL-27A PENETRANT IS A QUALIFIED PRODUCT OF QPL-25135-15 FOR TYPE I,METHOD B,LEVEL 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:0.96  
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/MAGNAFLU  
X WASTEWATER  
TREATMENT SYSTEM

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