

MAGNAFLUX CORPORATION -- ZL-27A ZYGLO PENETRANT (POST 11/1988) -- 6850-01-267-4345  
===== Product Identification =====

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

MSDS Date:11/28/1988

FSC:6850

NIIN:01-267-4345

MSDS Number: BHQFX

=== Responsible Party ===

Company Name:MAGNAFLUX CORPORATION

Address:7300 W. LAWRENCE AVENUE

City:CHICAGO

State:IL

ZIP:60656-3504

Country:US

Info Phone Num:708-867-80

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Emergency Phone Num:708-867-8000

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:WHITE MINERAL OIL (SLAB OIL)

CAS:8042-47-5

RTECS #:PY8047000

Fraction by Wt: 30.0%

ACGIH TLV:5MG/CUM OIL MIST

Ingred Name:KEROSENE

CAS:8008-20-6

RTECS #:OA5500000

Fraction by

Wt: 10.0%  
ACGIH TLV:100MG/CUM

Ingred Name:CARBON DIOXIDE  
CAS:124-38-9  
RTECS #:FF6400000  
Fraction by Wt: 05.0%  
OSHA PEL:5000 PPM  
ACGIH TLV:5000PPM/30000STEL;93

Ingred Name:PER MFR MSDS, "CONTAINS NO OTHER INGREDIENT SUSPECTED OF BEING HAZARDOUS ACCORDING TO 29CFR1910.1200 OSHA HAZCOMM RULE.  
RTECS #:9999999ZZ

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===== Hazards Identification =====

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE:IRRITATES EYES,MILDLY.

Explanation of Carcinogenicity:PER MFR,CONTAINS NO KNOWN OR SUSPECTED CARCINOGENS.

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:MAY CAUSE GASTRIC UPSET.

Medical Cond Aggravated by Exposure:NOT STATED BY MANUFACTURER.

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===== 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; INGESTION:DO NOT INDUCE VOMITING.GET MEDICAL ATTENTION IMMEDIATELY.

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===== Fire Fighting Measures =====

Flash Point:N/R (AEROSOL)  
Extinguishing Media:CARBON DIOXIDE,FOAM.  
Fire Fighting Procedures:KEEP CONTAINERS COOL

L WITH WATER SPRAY.DO NOT

SPRAY OR THROW CANS IN FIRE.

Unusual Fire/Explosion Hazard:AEROSOL CANS MAY BURST/EXPOLDE IN HEAT OF FIRE.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.ABSO

RB

LIQUID WITH COMMERCIAL ABSORBEN 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.

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 =====

Res

piratory Protection:WEAR RESPIRATOR WITH CHEMICAL CARTRIDGE.IN CONFINED AREAS,WEAR A FULL MASK WITH SEPARATE AIR SUPPLY.

Ventilation:GENERAL VENTILATION TO KEEP BELOW 350PPM OF TLV LIMIT.

Protective Gloves:NITRILE RUBBER GLOVES

Eye Protection:FULL GOGGLES

Other Protective Equipment:USE IN SPRAY BOOTH OR NEXT TO AN EXHAUST VENT TO CARRY VAPORS AWAY FROM OCCUPIED AREAS.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING MATERIAL.

LAUNDRER CONTAMINATED CLOTHES BEFORE REUSE OF:ZL-27A PENETRANT.

Supplemental Safety and Health

PRODUCT IN AEROSOL CAN. PHYSICAL DATA NOTED FOR BULK LIQUID. THIS ENTRY REPRESENTS NEW FORMULATION OF ZL-27A; OLD FORMULATION DATA UNDER PNI "B" OF THIS NSN; PER QPL-25135-15, ZL-54A, ZL-55, ZL-66A & ZL-22D PENETRANTS ALSO QUALIFY FOR TYPE I,METH C,LVL 3 OF MIL-I-25135E. SEE PN IND 'A', THIS NSN FOR ZL-22D PENETRANT.

===== Physical/Chemical Properties =====

HCC:V2

Boiling Pt:=210.C, 410.F

Vapor Pres:0.5 @100F

Vapor Density:1.0  
Spec Gravity:0.95 (BULK)  
Solubility in Water:NEGLIGIBLE  
Appearance and Odor:GREEN OILY LIQUID (BULK LIQUID)  
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 =====

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Waste Disposal Methods:INCINERATE OR DISPOSE OF AS EPA HAZARDOUS WASTE  
D001 (IGNITABLE WASTE),IN ACCORDANCE WITH ALL APPLICABLE  
FEDERAL,STATE,LOCAL REGULATIONS.MAKE SURE AEROSOL CANS ARE EMPTY  
BEFORE DISCARDING.PRESSURIZED AEROSOL CANS ARE NOT ACCEPTABLE  
WASTE.COMPLY REGS.

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