

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

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

Product ID:ZL-27A ZYGLO PENETRANT

MSDS Date:01/01/1991

FSC:6850

NIIN:01-117-2971

MSDS Number: BHQCX

=== Responsible Party ===

Company Name:MAGNAFLUX CORPORATION

Address:7300 W. LAWRENCE AVENUE

City:CHICAGO

State:IL

ZIP:60656-3504

Country:US

Info Phone Num:708-867-8000

Emergency Phone Num:708-867-

8000, CHEMTREC 800-424-9300

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%

Other REC Limits:NONE SPECIFIED BY M.

OSHA PEL:5 MG/M3 OIL MIST

ACGIH TLV:5MG/CUM OIL MIST

Ingred Na

me:KEROSENE
CAS:8008-20-6
RTECS #:OA5500000
Fraction by Wt: 10.0%
Other REC Limits:5 MG/M3 OIL MIST
ACGIH TLV:100MG/CUM

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:MAY IRRITATE EYES AND SKIN.
INHALATION:IRRITATION, DIZZINESS.
Effects of Overexposure:INHALATION:DIZZINESS, NAUSEA. EYES:MILD
IRRITATION, TEARING. SKIN:IRRITATION, DRYING. INGESTION:GASTRIC
UPSET, VOMITING,DIARRHEA.
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 COPIOUSAMOUNT OF
RUNNING WATER, AND GET MEDICAL ATTENTION. INGESTION:GET MEDICAL
HELP.

===== 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 INVOLVED IN COMBUSTION, MAY EMIT
TOXIC GASES AT OR ABOVE DECOMPOSITION TEMPERATURE. CANS MAY BURST
IN FIRE.

===== Accidental Release Measur

es =====

Spill Release Procedures:REMOVE IGNITION SOURCES.SMALL SPILL:WIPE UP OR MOP UP BUT DO NOT BREATHE VAPORS.PLACE RAGS IN CLOSED DRUMS; LARGE SPILL:WEAR PERSONAL SAFETY EQUIPMENTS.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:AVOID SKIN CONTACT.WASH THOROUGHLY AFTER HANDLING OR USE.LAUNDER CONTAMINATED CLOTHES.

Supplemental Safety and Health

THIS REPRESENTS NEW FORMULATION OF ZL-27A; OLD FORMULATION DATA UNDER PNI "B",THIS NSN; THE ZL-27A PENETRANT IS A QUALIFIED PRODUCT OF QPL-25135-15 FOR TYPE I,METH B,LVL 3 FOR THE NSN; PER QPL-25135-15,

ZL-22D PENETRANT IS ALSO FOR TYPE I,METH B,LEVEL 3 FOR THE SAME NSN OF THE SPEC.

===== 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

pH:NEUTRL

Solubility in Water:NEGLIGIBLE

Appearance and Odor:GREEN OILY LIQUID.

Percent Volatiles by Volume:5.0

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

OXIDIZERS.

Stability Co

ndition to Avoid:HEAT,HIGH TEMPERATURES.

Hazardous Decomposition Products: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,PU RIFY RINSINGS W/MAGNAFLUX
WASTEWATER TREATMNT SYST

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