

MAGNAFLUX CORPORATION -- ZL-27A ZYGLO PENETRANT (POST 11/1988) -- 6850-01-263-8432

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

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

MSDS Date:11/28/1988

FSC:6850

NIIN:01-263-8432

MSDS Number: BHQFM

=== Responsible Party ===

Company Name:MAGNAFLUX CORPORATION

Address:7300 W. LAWRENCE AVENUE

City:CHICAGO

State:IL

ZIP:60656-3504

Country:US

Info Phone Num:708-867-800

0

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

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: CAUSES MILD IRRITATION TO EYES
AND SKIN.
Effects of Overexposure:INHALATION: VAPORS MAY CAUSE DIZZINESS, N
AUSEA.
SPRAY MIST MAY IRRITATE BREATHING PASSAGES; EYES: LIQUID CONTACT
MAY CAUSE MILD IRRITATION; SKIN: MAY CAUSE IRRITATION. DISSOLVES
SKIN OILS. INGESTION:C AUSES GASTRIC UPSET.
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 LOTIO
N. IF IRRITATION PERSISTS, GET
MEDICAL ATTN; E YES: IMMEDIATELY RINSE/FLUSH WITH COPIOUS AMOUNT OF
RUNNING WATER, AND GET MEDICAL ATTENTION. INGESTION: 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 COMBUSTI
ON, MAY EMIT
TOXIC GASES AT OR ABOVE DECOMPOSITION TEMPERATURE.

===== Accidental Release Measures =====

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 COMMERCIA L ABSORBENT.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:AVOID SKIN CONTACT. WASH THOROUGHLY AFTER HANDLING OR USE. LAUNDER CONTAMINATED CLOTTES.
Supplemental Safety and Health
THIS REPRESENTS NEW FORMULATION OF ZL-27A; OLD FORMULATION DATA UNDER PNI "B",THIS NSN;
PER QPL-25135-15, ZL-22D,ZL-37,ZL-54A,ZL-55, AND
ZL-66A PENETRANTS ALSO QUALIFY FOR TYPE I,METH B,LVL 3 OF MIL-I-25135,REV E IN ADDITION TO ZL-27A PENETRANT.MFR MAY SUPPLY ONE OF THESE PENETRANTS FOR THE NSNS OF TY I,METH B,LEVEL 3.

===== 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
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),I/A/W ALL APPLICABLE FEDERAL, STATE, LOCAL REGULATIONS; IF LOCAL AUTHORITIES P

ROHIBIT DUMPING RINSINGS DOWN

THE SEWER,PURIFY RINS INGS WITH MAGNAFLUX WASTE WATER TREATMENT
SYSTM.

Disclaimer (provided with 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.