

MAGNAFLUX CORPORATION -- ZL-66A ZYGLO WATER WASHBL PENETRNT(POST 88) --
6850-01-263-8432

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

Product ID:ZL-66A ZYGLO WATER WASHBL PENETRNT(POST 88)

MSDS Date:11/16/1988

FSC:6850

NIIN:01-263-8432

MSDS Number: BHQPT

=== 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

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: 10.0%

ACGIH TLV:5MG/CUM OIL MIST

Ingred Name:

KEROSENE
CAS:8008-20-6
RTECS #:OA5500000
Fraction by Wt: 15.0%
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, NAUSEA.
SPRAY MIST MAY IRRITATE BREATHING PASSAGES; EYES: LIQUID CONTACT
MAY CAUSE MILD IRRITATION; SKIN: MAY CAUSE IRRITATION. DISSOLVES
SKIN OILS. INGESTION: CAUSES 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 S
OOTHING LOTION. 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
Lower Limits:1.0%
Upper Limits:6.0%
Extinguishing Media:CARBON DIOXIDE, FOAM.
Fire Fighting Procedures:KEEP CONTAINERS COOL WITH WATER SPRAY. DO NOT
SPRAY WATER ON BURNING PRODUCT.

Unusual Fire/Explosion Hazard:WHEN INVOLVE IN COMBUSTION, 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 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. LAUNDRY CONTAMINATED CLOTHES.
Supplemental Safety and Health
THIS REPRESENTS NEW FORMULATION OF ZL
-66A;OLD FORMULATION DATA UNDER
PNI "E",THIS NSN; PER QPL-25135-15, ZL-22D,ZL-27A,ZL-37,ZL-54A, AND
ZL-55 PENETRANTS ALSO QUALIFY FOR TYPE I,METH C,LVL 3 OF MIL-I-
25135,REV E IN ADDITION TO ZL-66A PENETRANT.MFR MAY SUPPLY ONE OF
THESE PENETRANTS FOR THE NSNS OF TYPE I,METH C,LEVEL 3.

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

HCC:N1
Boiling Pt:B.P. Text:410F/210C
Vapor Pres:0.25 @100F
Vapor Density:>1.0
Spec Gravity:0.92
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 PROHIBIT DUMPING RINSINGS DOWN THE SEWER,PURIFY RINS INGS WITH MAGNAFLUX WASTE WATER TREATMENT SYSTM.

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