

MAGNAFLUX CORPORATION -- ZL-54A ZYGLO WATER WASHBL PENETRNT(POST 87) --  
6850-01-263-8432

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

Product ID:ZL-54A ZYGLO WATER WASHBL PENETRNT(POST 87)

MSDS Date:11/03/1987

FSC:6850

NIIN:01-263-8432

MSDS Number: BHQPS

=== 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

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===== Composition/Information on Ingredients =====

Ingred Name:KEROSENE; ALIPHATIC PETROLEUM SOLVENT

CAS:8008-20-6

RTECS #:OA5500000

Fraction by Wt: 5.0%

ACGIH TLV:100 MG/CUM

Ingred Nam

e:BENZYL ALCOHOL; BENZENEMETHONOL

CAS:100-51-6

RTECS #:DN3150000

Fraction by Wt: 10.0%

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===== 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: NOT LISTED BY MANUFACTURER.

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: GET MEDICAL ATTENTION.

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===== 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.

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

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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.

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===== Handling and Storage =====

Handling and Storage Precautions:STORE AWAY FROM HEAT SOURCES IN WELL VENTILATED AREA. AVOID AGAINST PHYSICAL DAMAGE TO CONTAINER

RS. 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.

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===== 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. LAUNDRER CONTAMINATED CLOTTES.

Supplemental Safety and Health

THIS REPRESENTS NEW FORMULATION OF ZL-54A;OLD FORMULATION DATA UNDER PNI "C",THIS NSN; PER QPL-25135-15, ZL-22D,ZL-27A,ZL-37,ZL-55, AND ZL-66A PENETRANTS ALSO QUALIFY FOR TYPE I,METH C,LVL 3 OF MIL-I-25135,REV E

IN ADDITION TO ZL-54A PENETRANT.MFR MAY SUPPLY ONE OF THESE PENETRANTS FOR THE NSNS OF TY I,METH C,LEVEL 3.

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

HCC:N1

Boiling Pt:B.P. Text:410F/210C

Vapor Pres:0.3 @100F

Vapor Density:>1.0

Spec Gravity:0.99

Solubility in Water:NEGLIGIBLE

Percent Volatiles by Volume:5.0%

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===== 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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