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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

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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

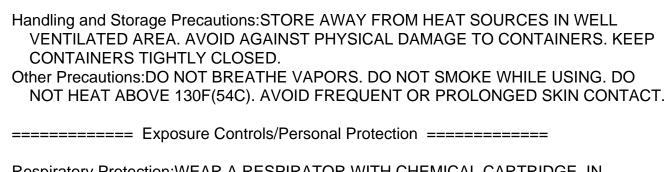
Ingred Name: KEROSENE

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: 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. 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 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 ==========================



Respiratory Protection: WEAR A RESPIRATOR WITH CHEMICAL CARTRIDGE. IN

CONFINED AREAS, WEAR A FULL MASK WITH SEPAR ATE 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 CLOTTHES.

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	=======================================
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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%

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ility and Reactivity Data	<b>  =======</b>

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.

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