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

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: IRRITATI ON, DRYING. INGESTION: GASTRIC UPSET, VOMITING, DIARRHEA. 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 LOTION. IF IRRITATION PERSISTS, GET MEDICAL ATTN. EY ES:IMMEDIATELY RINSE/FLUSH WITH COPIOUSAMOUNT OF RUNNING WATER, AND GET MEDICA L ATTENTION. INGESTION:GET MEDICAL HELP. 

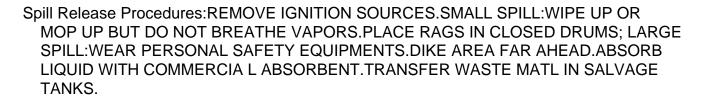
Flash Point Method:PMCC Flash Point:200F/ 93C

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



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

AMAGE 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 CLOTTHES.

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-25135-1 5.

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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