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MAGNAFLUX CORPORATION -- ZL-27 A ZYGLO PENETRANT -- 6850-01-263-8231

Product ID:ZL-27 A ZYGLO PENETRANT MSDS Date:01/01/1991 FSC:6850 NIIN:01-263-8231 MSDS Number: BHQFL === Responsible Party === **Company Name: MAGNAFLUX CORPORATION** Address:7300 W LAWRENCE AVE City:CHICAGO State:IL ZIP:60656-3504 Country:US Info Phone Num:708-867-8000 Emergency Phone Num:708-867-80 00/CHEMTREC 800-424-9300 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

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

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: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 LOTION. IF IRRI

TATION 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 MIN Lower Limits:1% Upper Limits:6% Extinguishing Media:CARBON DIOXIDE, FOAM. Fire Fighting Procedures:KEEP CONTAINERS COOL WITH WATER SPRAY. DO NOT SPRAY ON BURNING PRODUCT. Unusual Fire/Explosion Hazar

d:WHEN INVOLVE IN COMBUSTION, MAY EMIT TOXIC GASES AT OR ABOVE DECOMPOSITION TEMPERATURE.

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. Respiratory Protection: WEAR A RESPIRATOR WITH CHEMICAL CARTRIDGE. IN CONFINED AREAS, W EAR 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 UN DER PNI "B" OF THIS NSN; THE NSN IS FOR A SET OF PENETRANT (ZL-27A OR ZL-22D) AND EMULSIFIER (ZR-10A OR ZR-10B). PER QPL-25135-15, ZL-27A/ZR-10A, AND ZL-22D/ZR-10B SETS QUALIFY FOR TYPE I,METH D,LVL 3 NSNS OF MIL-I-25135E;KEY1=N1.

HCC:N1 Boiling Pt:B.P. Text:410F,210C Vapor Pres:0.5 @ 100F Vapor Density:>1 Spec Gravity:0.96 Solubility in Water:NEGLIGIBLE Percent Volatiles by Volume:5.0%

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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.

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

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