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MAGNAFLUX CORPORATION -- ZL-22D ZYGLO PENETRANT -- 6850-01-263-8432

Product ID:ZL-22D ZYGLO PENETRANT MSDS Date:11/17/1986 FSC:6850 NIIN:01-263-8432 **MSDS Number: BGRRH** === Responsible Party === **Company Name: MAGNAFLUX CORPORATION** Address:7300 W.LAWRENCE AVENUE City:CHICAGO State:IL ZIP:60656-3504 Country:US Info Phone Num:312-867-8000 Emergency Phone Num:312-867-8000 Preparer's Name: BRUCE C. GRAHAM 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: DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE CAS:64742-46-7 RTECS #: JN9379645

Fraction by Wt: 25.0%

Ingred Name:KEROSENE CAS:8008-20-6 RTECS #:OA5500000 Fraction by Wt: 10.0%

ACGIH TLV:100 MG/CUM

Ingred Name:DISTILLATES(PETROLUM),CATALYTIC REFORMER FRACTIONATER RESIDUE,LOW BOILING CAS:68477-31-6 Fraction by Wt: 20.0%

Ingred Name:UNIDENTIFIED COMPONENTS Fraction by Wt: 45.0%

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE:IRRITATES EYES,MILDLY. Effects of Overexposure:INHALATION:SPRAY MIST MAY IRRITATE TO BREATHING PASSAGES; EYES:LIQUID CONTACT MAY CAUSE IRRITATION; SKIN:SOLVENT IN

THE PRODUCT MAY IRRITATE SKIN; INGESTION:NOT NOTED BY MANUFACTURER. 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; EYES:IMM EDIATELY RINSE/FLUSH WITH COPIOU S AMOUNT OF RUNNING WATER AND 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 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.SM QTY:WIPE UP OR MOP UP BUT DO NOT BREATHE VAPORS.PLACE RAGS IN CLOSED DRUMS; LG QTY:WEAR PERSONAL SAFETY EQUIPMENTS.DIKE AREA FAR AHEAD.ABSORB LIQUID WITH COMMERCIAL ABSORBEN T.TRANSFER WASTE MATL IN SALVAGE TANKS.

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

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,WEAR A FULL MASK WITH SEPARATE AIR SUPPLY. Ventilation:GENERAL VENTILATION TO KEEP BELOW 350PPM LIMIT. Protective Gloves:NITRILE RUBBER GLOVES

Eye Protection:FULL GOGGL

ES 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 CLOTHES BEFORE REUSE. Supplemental Safety and Health

NSN FOR TYPE I,METHOD C,LEVEL 3 MATERIAL OF MIL-I-25135D;ZL-22D PENETRANT IS A QUALIFIED PRODUCT OF QPL-25135-15 FOR TYPE I,METH C,LEV 3;THE QPL ALSO SPECIFIED THAT THIS PENETRANT MAY BE A PART OF KIT WITH SEVERAL

QUALIFIED EMULSIFIERS FORTHE SAME AND/OR OTHER TYPE, METHOD & LEVL.SEE OTHER PNI FOR OTHER PENETRANT.

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 Appearance and Odor:GREEN LIQUID WITH PETROLEUM DISTILLATE ODOR Percent Volatiles by Volume:5.0%

Stability Indicator/Material

s 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),IN ACCORDANCE WITH ALL APPLICABLE FEDERAL,STATE,LOCAL REGULATIONS:IF LOCAL AUTHORITIES PROHIBIT DUMPING RINSINGS DOWN THE SEWER,P URIFY RINSINGS W/MAGNA FLUX

WASTEWATER TREATMNT SYS

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