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MAGNAFLUX CORPORATION -- ZL-27 A ZYGLO PENETRANT -- 6850-01-267-4345

Product ID:ZL-27 A ZYGLO PENETRANT MSDS Date:01/01/1991 FSC:6850 NIIN:01-267-4345 MSDS Number: BPHVM === 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:708-867-8 000/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

Ingred Name:WHITE MINERAL OIL (PETROLEUM) CAS:8042-47-5 RTECS #:PY8047000 Fraction by Wt: 30% Other REC Limits:NONE RECOMMENDED OSHA PEL:5 MG/M3 AS OIL MIST ACGIH TLV:5 MG/M3 AS OIL MIST

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e:ALIPHATIC PETROLEUM SOLVENT/KEROSENE CAS:8008-20-6 RTECS #:OA5500000 Fraction by Wt: 10% Other REC Limits:NONE RECOMMENDED ACGIH TLV:100 MG/M3 (MFR)

Ingred Name:ISOBUTANE CAS:75-28-5 RTECS #:TZ4300000 Fraction by Wt: 30% Other REC Limits:NONE RECOMMENDED

LD50 LC50 Mixture:OSHA PEL FOR OILY MIST IS 5 MG/M3. Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Ha

zards Acute and Chronic:ACUTE- INHALATION:DIZZINESS, NAUSEA. EXPOSURE ABOVE TLV CAN RESULT IN CLUMSINESS & POOR JUDGMENT, LIKE INGESTING TOO MUCH ALCOHOL. IF VICTIM IS UNCONSCIOUS, DEATH IS POSSIBLE. SKIN:IRRITATION. DISSOLV ES SKIN OILS. EYE:MILDLY IRRITATING. INGESTION:GASTRIC UPSET. CHRONIC- MAY CAUSE DRYNESS OF SKIN AND DERMATITIS.

Effects of Overexposure:INHALATION OF MISTS OR VAPORS CAN CAUSE DIZZINESS AND NAUSEA. SKIN CONTACT CAUSES IRRITATION. DISSOLVES SKIN O

ILS. MILDLY EYE IRRITATING. INGESTION CAN LEAD TO GASTRIC UPSET.

Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTIBLE TO THIS MATERIAL.

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN:WASH WITH SOAP & WATER. EYE:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:CALL A PHYSICIAN IF SEVERE.

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Flash Point Method: PMCC Flash Point:FLAMMABL AEROSOL Lower Limits:1 Upper Limits:6 Extinguishing Media: CARBON DIOXIDE, FOAM. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL. DO NOT SPRAY WATER ON BURNING ZL-27A Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE. **Unusual Fire/Explosion** Hazard: AEROSOL CANS MAY RUPTURE AND RELEASE FLAMMABLE LIQUIDS AND/OR GASES IF EXPOSED TO HEAT ABOVE 130F. Spill Release Procedures: VENTILATE AREA.DO NOT BREATHE VAPORS.IF LESS THAN ONE QUART SPILLED: WIPE UP.FOR ONE QUART OR MORE: EVACUATE AREA.WEAR PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.ABSORB WITH SAND/CLAY.RE MOVE FOR DISPOSAL.DO NOT ALLOW TO ENTERSEWERS. ======= Handlin Handling and Storage Precautions: STORAGE- DO NOT STORE NEAR HEAT SOURCES SUCH AS RADIATORS, OPEN FLAMES, STOVES. KEEP IN COOL, DRY PLACE. Other Precautions: AVOID EXCESSIVE INHALATION. DO NOT INCINERATE OR PUNCTURE CONTAINERS, EVEN WHEN EMPTY. WASH THOROUGHLY AFTER HANDLING. KEEP AWAY FROM REACH OF CHILDREN. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. **Respiratory Prote** 

ction:NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF EXCESSIVE MISTS OR VAPORS PRESENT OR IN CONFINED SPACES, A NIOSH-APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE IS REQUIRED OR WEAR SELF -CONTAINED BREATHING APPARATUS. Ventilation:GENERAL VENTILATION MUST BE SUFFICIENT TO KEEP THE CONCENTRATION BELOW 350 PPM. Protective Gloves:NITRILE Eye Protection:CHEMICAL SPLASH GOGGLES/FACE SHIELD Other Protective Equipment:EYE WASH STATION & SAFETY SHOWERS SHOULD BE A VAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EXPOSURE.
Work Hygienic Practices: USE ONLY AS DIRECTED ON LABEL. READ LABEL BEFORE USING PRODUCT.
Supplemental Safety and Health
FORMULA CHANGED. FOR PREVIOUS FORMULATIONS, SEE PNI A, B OR C UNDER THE SAME NSN. THE KIT CONSISTS OF ZL-27A (PENETRANT), ZP-9E (DEVELOPER), ZP-4B (DRY DEVELOPER) AND SKC-NF (CLEANER).

HCC:V3 Boiling Pt:B.P. Text:-44F,-42C Vapor Pres:54 31 @ 75F Vapor Density:>1 Spec Gravity:0.96 Evaporation Rate & amp; Reference:NEGLIGIBLE Solubility in Water:NEGLIGIBLE Appearance and Odor:GREEN OILY LIQUID Percent Volatiles by Volume:35

Stability Indicator/Materials to Avoid:YES POWDERED ZINC AND POWDERED ALUMINUM Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES, DIRECT SUNLIGHT, TEMPERATURES ABOVE 130F Hazardous Decomposition Products:PHOSGENE, HYDROCHLORIC ACID

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Waste Disposal Methods:DISPOSE OF AS EPA HAZARDOUS WASTE #F002.MAY BE SENT TO SOLVENT RECLAIMER.ENSURE THAT AEROSOL CANS ARE EMPTY & DEPRESSURIZED BEFORE DISCARDING,UNLESS AN APPROVED WASTE TREATMENT FACILITY ACCEPT THEM A S IS.OBSERVE ALL LOCAL,STATE & FEDERAL REGULATIONS

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