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MAGNAFLUX CORPORATION DIV ILLINOIS TOOL WORKS INC -- ZYGLO PENETRANT ZL-27A -- 6850-01-267-4345

============= Product Identification ==================

Product ID:ZYGLO PENETRANT ZL-27A

MSDS Date:01/10/1997

FSC:6850

NIIN:01-267-4345

MSDS Number: CHQMT === Responsible Party ===

Company Name: MAGNAFLUX CORPORATION DIV ILLINOIS TOOL WORKS INC

Address:7300 W LAWRENCE AVE City:CHICAGO (NOW GLENVIEW, ILL)

State:IL ZIP:60025

Country:US

Info Phone Num:847-657-5300 FAX: 847-657-5388

Emergency Phone Num:847-657-5300(CHEMTREC 800-424-9300)

Preparer's Name: CHERYL A. ZELEZNIK

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

Company Name: MAGNAFLUX CORP

Address:218 E INDUSTRIAL ST

Box:UNKNOW City:DE WITT

State:IA ZIP:52742 Country:US

Phone: 319-659-8143

CAGE:0JNN1

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====== Composition/Information on Ingredients ======== Ingred Name: WHITE MINERAL OIL (PETROLATUM) CAS:8042-47-5 RTECS #:PY8047000 Fraction by Wt: 30-60% Other REC Limits: NONE RECOMMENDED Ingred Name: ISODECYL DIPHENYL PHOSPHATE CAS:29761-21-5 Fraction by Wt: 30-60% Other REC Limits: NONE RECOMMENDED Ingred Name: CASTOR OIL CAS:8001-79-4 RTECS #:FI4100000 Fraction by Wt: 10-30% Other REC Limits: NONE RECOMMENDED Ingred Name: ISOBUTANE CAS:75-28-5 RTECS #:TZ4300000 Fraction by Wt: 30% Othe r REC Limits: NONE RECOMMENDED OSHA PEL:100 PPM ------ Hazards Identification ------LD50 LC50 Mixture:TLV: 5 MG/M3 (OIL MIST) Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: SKIN CONTACT CAN IRRITATE BY REMOVING NATURAL SKIN OILS ON PROLONGED OR REPEATED EXPOSURE. EYE CONTACT MAY CAUSE IRRITATION. INHALATION IS NOT A SIGNIFIGANT HEALTH HAZARD AT ROOM TEMPERATUR ES; WHEN HE ATED OR SPRAYED PRODUCT MAY CAUSE DIZZINESS OR NAUSEA. INGESTION IS NOT A SIGNIFIGANT HEALTH HAZARD IN SMALL AMOUNTS. Explanation of Carcinogenicity: NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN PER MANUFACTURER. Effects of Overexposure: INHALED-DIZZINESS, NAUSEA. SKIN-IRRITATION. EYES-IRRITATION. Medical Cond Aggravated by Exposure: NONE.

irst Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN-WASH WITH SOAP AND WATER. USE SOOTHING LOTION. EYE-RINSE CAREFULLY UNDER UPPER & LOWER EYELIDS USING PLENTY OF WATER. INHALED: REMOVE TO FRESH AIR IF DI ZZY OR NAUSEATED. INGESTED: DO NOT INDUCE VOMITING! IN SEVERE CASES (MORE THAN SMALL MOUTHFUL), CALL DOCTOR OR POISON CONTROL CENTER IMMEDIATELY.

============ Fire Fighting Measures =========================

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

Lower Li mits:1

Upper Limits:6

Extinguishing Media:CARBON DIOXIDE,FOAM.KEEP CONTAINERS COOL WITH WATER SPRAY.DO NOT SPRAY WATER DIRECTLY ON PRODUCT;IT WILL FLOAT & SPREAD.

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 (54C).

====== Accidental Release Measures =========

Spill Release Procedures:MOP OR SWEEP UP WITH ABSORBENT. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:STRORE AWAY FROM HEAT SOURCE. AVOID EYE CONTACT. AVOID REPEATED OR PROLONGED SKIN CONTACT. AVOID BREATHING SPRAY MIST.

Other Precautions: NONE SPECIFIED BY MANUFACTURER.

====== Exposure Controls/Personal Protection

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134.

Ventilation: USE WHERE VENTILATION WILL CARRY SPRAY AWAY FROM OCCUPIED AREAS.

Protective Gloves:NITRILE.

Eye Protection: SAFETY GLASSES.

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER. DLA-HMIS: EYE WASH STATION &

SAFETY SHOWER.
Work Hygienic Practices: WASH HANDS AFTER HANDLING AND BEFORE EATING,
DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.
Supplemental Safety and Health
FORMULA CHANGED FOR PREVIOUS FORMULATIONS SEE PNLA B OR C OR D

FORMULA CHANGED. FOR PREVIOUS FORMULATIONS, SEE PNI A, B OR C OR D UNDER THE SAME NSN/CAGE. MSDS PRESENTED BY CAGE 37676 FOR CONTRACT NUMBER SP0450-98-Q-D304.

======== Physical/Chemical Properties ==========

HCC:V3

Boiling Pt:B.P. Text:455F,235C

Vapor Pres:3103 Vapor Density:>1 Spec Gr avity:0.96

pH:7

Evaporation Rate & Description R

Solubility in Water: NEGLIGIBLE

Appearance and Odor:GREEN OILY LIQUID; MILD ODOR. CONTAINED IN AEROSOL

12 OZ AEROSOL CAN.

Percent Volatiles by Volume:30

======== Stability and Reactivity Data =========

Stability Indicator/Materials to Avoid:YES

NONE.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:SOOT, OXIDES OF CARBON IF HEATED TO COMBUSTION TEMPERATURES.

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====== Disposal Considerations ==========

Waste Disposal Methods:AS A NON-HAZARDOUS WASTE, INCINERATE (PRODUCT-NOT AEROSOL CAN! - DLA-HMIS) OR SEND TO WASTE HANDLER WHO CAN BLEND SECONDARY FUELS. EMPTY AEROSOL CANS BEFORE DISPOSAL.

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