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## MAGNAFLUX CORPORATION -- ZL-38 ZYGLO PENETRANT -- 6850-01-268-6695

Product ID:ZL-38 ZYGLO PENETRANT

MSDS Date:04/10/1986

FSC:6850

NIIN:01-268-6695

MSDS Number: BGSCG === 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

======= Composition/Information on Ingredients ========

Ingred Name: PARAFFIN OILS (PETROLEUM), C5-C20

CAS:64771-72-8

Fraction by Wt: 20.0% Other REC Limits:300PPM

Ingred Name: UNIDENTIFIED COMPONENTS; PER MFR, CONTAINS NO OTHER

**INGREDIENTS SU** 

SPECTED OF BEING HAZARDOUS I/A/W INFO IN 29CFR1910.1200 Fraction by Wt: 80.0% ============= Hazards Identification ======================== Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO Health Hazards Acute and Chronic:ACUTE:CAUSES DIZZINESS,NAUSEA IF INHALED AND CAUSES SKIN/EYE IRRITATION ON CONTACT. Explanation of Carcinogenicity:PER MFR, CONTAINS NO KNOWN OR SUSPECTED CARCINOGENS. Effects of Overexposure: INHALATION: CAUSES DIZZINESS, DROWSINESS, NAUSEA: SKIN:LIQUI D IRRITATES BY DISSOLVING SKIN OIL; EYES: VAPORS/LIQUID CAUSES IRRITATION: INGESTION: NOT LISTED ON MSDS BY MFR BUT MAY BE HARMFUL. Medical Cond Aggravated by Exposure: NOT KNOWN 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 W ITH COPIOUS AMOUNT OF RUNNING WATER, AND GET MEDICAL ATTENTION. ============ Fire Fighting Measures ========================= 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 ZL-38. 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 CONTA

**INERS.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: USE NIOSH APPROVED RESPIRATOR FOR CONFINED AREAS; IF USING IN POORLY VENTILATED AREA, USE RESPIRATOR WITH CHEMICAL CARTRIDGE. Ventilation: GENERAL ROOM VENTILATION TO KEEP BELOW TLV LIMITS; PER MFR, USE IN SPRAY BOOTH OR WHERE VENTILATION IS ADEQUATE. Protective Gloves: USE NITRILE RUBBER GLOVES IF NEEDED. Eve Protection: FULL GOGGLES/SAFETY GLASSES W/SIDEHSIELD Other Protective Equipment: NOT KNOWN Work Hygienic Practices: WASH OFF PROMPTLY WITH WATER. AVOID SKIN CONTACT WITH ZL-38. Supplemental Safety and Health NSN OF MIL-I-25135, TYPE I, METHOD C, LEVEL 4; PER QPL-25135-15, MAGNAFLUX MAY SUPPLY ONE OF THE FOLLOWING PENETRANTS FOR TYPE I, METHOD B, LEVEL 4 UNDER THIS NSN:ZL-38, ZL-37, OR ZL-30B; THIS ENTRY DE **SCRIBES** Z L-38; PRODUCT NOT AVAILABLE IN AEROSOL CANS. SEE OTHER PNI OF THIS NSN FOR OTHER QUALIFIED ITEMS OF REV "D" SPEC. ======== Physical/Chemical Properties ============= HCC:N1 Boiling Pt:B.P. Text:430F/221C Vapor Pres:1.0 Spec Gravity:0.92 Solubility in Water: NEGLIGIBLE Appearance and Odor: GREEN OILY LIQUID

Percent Volatiles by Volume:5%

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

Stability Indicator/Materials to Avoid:YES NONE KNOWN Stab

ility Condition to Avoid:HEAT,HIGH TEMPERATURES
Hazardous Decomposition Products:EMITS 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.

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