

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

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

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:312-867-80

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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 SUSPE

CTED 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:LIQUID I

RRITATES 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 Measures =====

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
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 ===

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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 =====

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

RS.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.

Eye 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 DESCR

IBES

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

Stabili

ty 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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