

MAGNAFLUX CORPORATION -- ZL-55 ZYGLO WATER WASHABLE PENETRANT -- 6850-01-263-8430  
===== Product Identification =====

Product ID:ZL-55 ZYGLO WATER WASHABLE PENETRANT

MSDS Date:11/13/1985

FSC:6850

NIIN:01-263-8430

MSDS Number: BGRRD

=== 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:SECONDARY ETHOXYLATED FATTY ALCOHOLS

CAS:68131-40-8

RTECS #:WZ5200000

Fraction by Wt: 50.0%

Ingred Name:UNIDENTIFIED COMPONENTS

Fraction by Wt: 50

.0%

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Hazards Identification  
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Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:IRRITATES EYES ON LIQUID/VAPOR CONTACT.

Effects of Overexposure:INHALATION:CAUSES DIZZINESS,DROWSINESS,NAUSEA;  
SKIN:LIQUID IRRITATES BY DISSOLVING SKIN OIL; EYES:VAPORS/LIQUID CAUSES IRRITATION;  
INGESTION:MANUFACTURER DIDN'T LIST.

Medical Cond Aggravated by Exposure:NOT KNOWN

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First Aid Measures  
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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.

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Fire Fighting Measures  
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Flash Point Method:PMCC

Flash Point:>200F/>93C

Extinguishing Media:CARBON DIOXIDE,FOAM

Fire Figh

ting Procedures:KEEP CONTAINERS COOL WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:WHEN INVOLVE IN COMBUSTION,MAY EMIT TOXIC GASES AT OR ABOVE  
DECOMPOSITION TEMPERATURE.

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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.

Neutralizing Agent:NOT KNOWN

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

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Exposure Controls/Personal Protection  
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Respiratory Protection:USE NIOSH APPROVED RESPIRATOR FOR CONFINED AREAS.

Ventilation:GENERAL ROOM VENTILATION TO KEEP BELOW TLV LIMITS.

Protective Gloves:USE NITRILE RUBBER GLOVES IF NEEDED.

Eye Protection:FULL GOGGLES/SAFETY GLASSES W/SIDESHIELD

Other Protective Equipment:NOT KNOWN

Work Hygienic Practices:WASH OFF PROMPTLY WITH WATER.AVOID SKIN CONTACT.

Supplemental Safety and Health

NSN OF MIL-I-25135D,TYPE I,METHOD A,LEVEL 3;PER QPL-25135-15,MAGNAFLUX CORP.,MAY SUPPLY ONE OF

THE FOLLWOING PENETRANTS FOR TYPE I,METHOD

A,LEVEL 3,NSN:ZL-15A,ZL-55, OR ZL-66A;THIS DATA IS OF ZL-55;PR

ODUCT NOT AVAILABLE IN AEROSOL CANS;SEEOTHER P/N IND OF THIS NSN FOR OTHER QUALIFIED ITEMS.

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

HCC:N1

Boiling Pt:B.P. Text:>400F/>204C

Vapor Pres:0.3MM@100F

Vapor Density:>1.0

Spec Gravity:1.01

Evaporation Rate & Reference:NEGLIGIBLE

Solubility in Water:NEGLIGIBLE(EMULSIFY)

Appearance and Odor:GREEN OILY LIQ

UID

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

Stability Indicator/Materials to Avoid:YES

Stability 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;IF LO

CAL AUTHORITIES DO NOT ALLOW

DUMPING RINSINGS DOWN THE SEWER, PURIFY RINSINGS WITH MAGNAFLUX  
TREATMENT SYSTEM

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