

MAGNAFLUX CORPORATION -- ZL-55 ZYGLO WATER WASHABLE PENETRANT -- 6850-01-263-2263
===== Product Identification =====

Product ID:ZL-55 ZYGLO WATER WASHABLE PENETRANT

MSDS Date:11/13/1985

FSC:6850

NIIN:01-263-2263

MSDS Number: BGRML

=== 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: 5

0.0%

Ingred Name:NONYLPHENOL POLYETHOXATE
CAS:9016-45-9
RTECS #:MD0900000
Fraction by Wt: 7-13%
Other REC Limits:NONE RECOMMENDED

Ingred Name:PENTANEDIOIC ACID, DIMETHYL ESTER
CAS:1119-40-0
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED

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===== Hazards Identification =====

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 =====

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 =====

Flash Point Method:PMCC
Flash Point:>200F/>93C
Extinguishing Media:CARBON DIOXIDE,FOAM.
Fire Fighting 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 =====

Spill Rel

ease 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 ABSORBENT.T.TRANSFER WASTE MATL IN SALVAGE TANKS.

Neutralizing Agent:NOT KNOWN.

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===== Handling and Storage =====

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 =====

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 FOLLOWING PENETRANTS FOR TYPE I,METHOD A,LEVEL 3 NSN:ZL-54A, ZL-55, OR ZL-66A;THIS DATA IS OF ZL-55;PRODUCT NOT AVAILABLE IN AEROSOL CANS;SEE OTHER P/N IND OF THIS NSN FOR OTHER QUALIFIED ITEMS.

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===== 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 OIL LIQUID

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===== 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

ON.

===== 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 LOCAL AUTHORITIES DO NOT ALLOW DUMPING RINSINGS DOWN THE SEW ER,PURIFY RINSINGS WITH MAGNAFLUX TREATMENT SYSTM

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