

MAGNAFLUX CORPORATION -- ZYGLO PENETRANT ZL-2C -- 6850-00-782-2732

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

Product ID:ZYGLO PENETRANT ZL-2C

MSDS Date:01/20/1993

FSC:6850

NIIN:00-782-2732

MSDS Number: BSVYX

=== Responsible Party ===

Company Name:MAGNAFLUX CORPORATION

Address:7301 WEST AINSLIE AVENUE

City:HARWOOD HTS

State:IL

ZIP:60656

Country:US

Info Phone Num:708-867-8000

Emergency Phone Num:708-867-80

00, CHEMTREC 800-424-9300

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:WHITE MINERAL OIL (PETROLEUM)

CAS:8042-47-5

RTECS #:PY8047000

Fraction by Wt: 40%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG/M3 AS OIL MIST

ACGIH TLV

:5 MG/M3 AS OIL MIST

Ingred Name:ISODECYL DIPHENYL PHOSPHATE

CAS:29761-21-5

Fraction by Wt: 15-40%

Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic:ACUTE- CAN IRRITATE SKIN BY REMOVING  
NATURAL SKIN OIL ON LONG/REPEATED EXPOSURES. CAN IRRITATE EYES BUT  
DOES NOT ATTACK EYE TISSUE. INHALATION CAU  
SES DIZZINESS AND NAUSEA.

INGESTION OF SMALL (MOUTHFUL ) AMOUNTS IS NOT SIGNIFICANT. CHRONIC-  
UNKNOWN. TARGET ORGANS:EYES, SKIN, RESPIRATORY TRACT.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION OF EYES, SKIN, RESPIRATORY TRACT,  
DIZZINESS, NAUSEA

Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN DISORDERS

===== First Aid Measures =====

First Aid:CALL A DOCTOR IF SYMPTOMS PERSIST. EYE:IMMEDIATELY FLUSH WITH  
WATER

FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP &  
WATER. USE SOOTHING LOTION. INHALED:REMOVE TO FRESH AIR. PROVIDE  
CPR/OXY GEN IF NEEDED. ORAL:DO NOT INDUCE VOMITING. ACCIDENTAL  
INGESTION OF A SINGLE MOUTHFUL OF PRODUCT IS NOT EXPECTED TO CAUSE  
SIGNIFICANT HARM. IN ALL SEVERE CASES, CONTACT PHYSICIAN  
IMMEDIATELY.

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

Flash Point Method:PMCC

Flash Point:200F,93C MIN.

Lower Limits:1

Upper Limits:6

Exti

Extinguishing Media:CARBON DIOXIDE OR FOAM. DO NOT SPRAY WATER ON BURNING ZL-2C; IT MAY FLOAT AND SPREAD THE FIRE.  
Fire Fighting Procedures:WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN THE POSITIVE PRESSURE MODE. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.  
Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENTS. VENTILATE AREA. MOP UP OR REMOVE WITH NON-FLAMMABLE ABSORBENT MATERIALS. PUT INTO CONTAINER. DISPOSE AS HAZARDOUS WASTE.  
Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:DO NOT SPRAY AROUND ARCS OR FLAME. STORE AWAY FROM HEAT SOURCES.  
Other Precautions:"EMPTY" CONTAINERS MAY RETAIN RESIDUE AND CAN BE DANGEROUS. KEEP OUT OF REACH OF CHILDREN. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. DO NOT BREATHE VAPORS/MIST. DO NOT TAKE INTERNALLY.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF TLV IS EXCEEDED, NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OR AIR-SUPPLIED OR FILTERING TYPE WITH ORGANIC VAPOR CARTRIDGES ARE RECOMMENDED.  
Ventilation:NONE, UNLESS APPLIED AS SPRAY.  
Protective Gloves:NITRILE RUBBER IF EXPOSURE UNAVOIDABLE  
Eye Protection:CHEMICAL SAFETY GOGGLES IF SPRAYING  
Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, LONG SLEEVED LONG PANTS  
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.  
Supplemental Safety and Health  
FORMULA CHANGED. FOR PREVIOUS FORMULATIONS, SEE PNI A/B/C/D UNDER THE SAME NSN.

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

HCC:T6  
NRC/State Lic Num:NOT RELEVANT  
Boiling Pt:B.P. Text:455F,235C  
Melt/Freeze Pt:M.P/F.P Text:NOT KNOWN  
Vapor Pres:1  
Spec Gravity:0.87  
Evaporation Rate & Reference:NEGLIGIBLE  
Solubility in Water:INS

OLUBLE

Appearance and Odor:GREEN, OILY LIQUID

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

Stability Indicator/Materials to Avoid:YES

NONE

Stability Condition to Avoid:HIGH TEMPERATURES

Hazardous Decomposition Products:SOOT, CARBON MONOXIDE, CARBON DIOXIDE

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE  
LOCAL, STATE AND FEDERAL REGULATIONS. AS A NON-HAZARDOUS OILY  
WASTE, INC

INERATE IT OR SENT TO WASTE HANDLER WHO CAN BLEND IT INTO  
SECONDARY FUELS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume res

ponsibility for the suitability of this information to their  
particular situation.