

MAGNAFLUX DIV OF ILLINOIS TOOL WKS INC -- ZYGLO PENETRANT ZL-2 C -- 6850-01-268-6703  
===== Product Identification =====

Product ID:ZYGLO PENETRANT ZL-2 C

MSDS Date:05/03/1996

FSC:6850

NIIN:01-268-6703

MSDS Number: CFYGD

=== Responsible Party ===

Company Name:MAGNAFLUX DIV OF ILLINOIS TOOL WKS INC

Address:3624 WEST LAKE AVENUE

City:GLENVIEW

State:IL

ZIP:60025

Country:US

Info Phone Num:847-657-530

0 / 5338 (FAX)

Emergency Phone Num:847-657-5300/800-424-9300(CHEMTREC)

Preparer's Name:CHERI A. ZELEZNIK

CAGE:KO362

=== 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

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===== Compo

sition/Information on Ingredients =====

Ingred Name:MINERAL OIL, WHITE (PETROLEUM)  
CAS:8042-47-5  
RTECS #:PY8047000  
Fraction by Wt: 30 - 60%  
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 =====

LD50 LC50 Mixture:TLV FOR OIL MIST IS 5 MG/M3.  
Routes of Entry: Inhalat  
ion:NO Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN. ACUTE- MAY  
CAUSE EYE IRRITATION, SKIN DEFATTING. NOT SIGNIFICANT INHALATION AT  
AMBIENT TEMPERATURES. INHALATION OF VAPORS AT HIGH TEMPERATURES OR  
OIL MISTS MAY CAUSE RESPIRATORY IRRITATION AND DIZZINESS.  
INGESTION IS NOT SIGNIFICANT IN SMALL (MOUTHFUL) AMOUNTS. CHRONIC-  
UNKNOWN.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure  
:IRRITATION, HEADACHE, NAUSEA, VOMITING,  
DIZZINESS, FATIGUE, CONFUSION, BLURRED VISION, TEARING, DEFATTING  
OF SKIN  
Medical Cond Aggravated by Exposure:NONE

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

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES:FLUSH WITH  
PLENTY OF WATER. HOLD EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER.  
USE SOOTHING LOTION. INHALED:MOVE TO FRESH AIR. ORAL:DO NOT INDUCE  
VOMITING. ACCIDENTAL INGESTION OF A SMALL MOUTHFUL

IS NOT EXPECTED  
TO CAUSE SIGNIFICANT HARM.

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

Flash Point Method:PMCC

Flash Point:200F,93C MIN

Lower Limits:1%

Upper Limits:6%

Extinguishing Media:CARBON DIOXIDE, FOAM. COOL FIRE-EXPOSED CONTAINERS  
WITH WATER SPRAY.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND  
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. DO NOT SPREAD  
FIRE WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:NONE

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= Accidental Release Measures =====

Spill Release Procedures:ABSORB SPILL ON SAND, VERMICULITE OR SIMILAR  
MATERIAL. SWEEP UP AND PLACE IN AN APPROPRIATE CONTAINER FOR  
DISPOSAL. WASH CONTAMINATED SPILL AREA WITH SOAPY WATER, THEN WATER  
TO REMOVE RESIDUES.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE AWAY FROM HEAT SOURCES.

Other Precautions:AVOID REPEATED/PROLONGED SKIN CONT  
ACT. KEEP OUT OF

REACH OF CHILDREN. DO NOT BREATHE MISTS. DO NOT INGEST. WASH AFTER  
HANDLING. AVOID EYE CONTACT

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

Respiratory Protection:NONE NORMALLY NEEDED. IF WORKING IN CONFINED  
AREAS, IF EXCESSIVE MISTING IS EXPECTED, WEAR NIOSH-APPROVED  
ORGANIC VAPOR AND MIST RESPIRATOR (REFER TO 29 CFR 1910.134)

Ventilation:ADEQUATE

Protective Gloves:BUTYL IF SKIN CONTACT IS POSSIBLE

Eye Protection:SAFETY GLASSES/GOGGLES R

ECOMMENDED

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWERS SHOULD BE AVAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EXPOSURE.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

Supplemental Safety and Health

FORMULA CHANGED. FOR PREVIOUS FORMULATIONS, SEE PNI A AND B, SAME NSN.

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

HCC:N1

NRC/State Lic Num:NO

T RELEVANT

Boiling Pt:B.P. Text:455F,235C

Vapor Pres:1

Spec Gravity:0.87

Evaporation Rate & Reference:NEGLIGIBLE

Solubility in Water:0%

Appearance and Odor:GREEN OILY LIQUID - MILD ODOR

Percent Volatiles by Volume:NONE

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

Stability Indicator/Materials to Avoid:YES

NONE

Stability Condition to Avoid:HEAT SOURCES

Hazardous Decomposition Products:TOXIC GASES OF CARBON MONOXIDE, CARBON DIOXIDE MAY BE FORMED.

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=== Disposal Considerations =====

Waste Disposal Methods:AS A NON-HAZARDOUS OILY WASTE, INCINERATE OR SEND TO WASTE HANDLER WHO CAN BLEND IT INTO SECONDARY FUELS. OBSERVE LOCAL, STATE AND FEDERAL REGULATIONS.

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