

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:847-657-5300

/ 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

Company Name:MAGNAFLUX DIV OF ILLINOIS TOOL WKS INC

Address:3624 WEST LAKE AVENUE

City:GLENVIEW

State:IL

ZIP:60025

Country:US

Phone:847-657-5300 / 5338 (FAX)

CAGE:KO362

===== Compos

ition/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: Inhalati
on: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 I

S 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

=====
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 CONTACT. 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 RE

COMMENDED

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:NOT 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.

===== 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.

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