

MAGNAFLUX, DIV OF ILLINOIS TOOL WKS INC -- ZYGLO DEVELOPER ZP-9F, (SEE SUPPL) --
6850-00-782-2740

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

Product ID:ZYGLO DEVELOPER ZP-9F, (SEE SUPPL)

MSDS Date:04/10/2000

FSC:6850

NIIN:00-782-2740

Status Code:A

Kit Part:Y

MSDS Number: CLFKW

=== 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/

Emergency Phone Num:847-657-5300

Resp. Party Other MSDS Num.:ZP-9F

Preparer's Name:CHERI A. STOCKHAUSEN

Chemtec Ind/Phone:(800)424-9300

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/

Contract Num:SP0450-99-M-C866

CAGE:37676

===== Composition/Information on Ingredients =====

Ingr

ed Name:2-PROPANONE

CAS:67-64-1

RTECS #:AL3150000

Minumum % Wt:40.

Maxumum % Wt:70.

OSHA PEL:750 PPM

ACGIH TLV:750 PPM

ACGIH STEL:2380 MG/M3;1000 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:2-PROPANOL

CAS:67-63-0

RTECS #:NT8050000

Minumum % Wt:10.

Maxumum % Wt:30.

OSHA PEL:400 PPM

ACGIH TLV:400 PPM

ACGIH STEL:1230 MG/M3;500 PPM

Ingred Name:2,2-BIS(HYDROXYMETHYL)-1,3-PROPANEDIOL

CAS:115-77-5

RTECS #:RZ2490000

Minumum % Wt:10.

Maxumum % Wt:30.

OSHA PEL:5 MG/M3

ACGIH TLV:10 MG/M3

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ngred Name:CARBON DIOXIDE (PROPELLANT)

CAS:124-38-9

RTECS #:FF6400000

= Wt:7.

OSHA PEL:5000 PPM

ACGIH TLV:5000 PPM

ACGIH STEL:54000 MG/M3

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

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

Health Hazards Acute and Chronic:SKIN CONTACT: CAN IRRITATE BY REMOVING
NATURAL SKIN OILS ON LONG OR REPEATED EXPOSURES. EYES: IRRITATING,
BUT DOES NOT DAMAGE EYE TISSUES. INHALATION: CAUSES DIZZINESS AND
NAUSEA. INGESTION: NO

T SIGNIFICANT IN SMALL (MOUTHFUL) AMOUNTS.

Explanation of Carcinogenicity:CONTAINS NO KNOWN OR SUSPECTED

CARCINOGENS LISTED WITH OSHA, IARC, NTP, ACGIH.

Effects of Overexposure:INHALATION: DIZZINESS, NAUSEA.

Medical Cond Aggravated by Exposure:NONE

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

First Aid:SKIN CONTACT: WASH OFF WITH SOAP AND WATER. USE SOOTHING LOTION. EYES: RINSE CAREFULLY UNDER EYELIDS USING PLENTY OF WATER. INHALATION: REMOVE TO FRESH AIR I

F DIZZY OR NAUSEATED. INGESTION:

DO NOT INDUCE VOMITING. ACCIDENTAL INGESTION OF A SINGLE MOUTHFUL IS NOT EXPECTED TO CAUSE SIGNIFICANT HARM. NOTE: IN ALL SEVERE CASES, CONTACT PHYSICIAN IMMEDIATELY. LOCAL TELEPHONE OPERATORS CAN FURNISH NUMBER OF REGIONAL POISON CONTROL CENTER.

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

Flash Point Method:PMCC

Flash Point:=-16.5C, 2.F

Lower Limits:2%

Upper Limits:15%

Extinguishing Media:CARBON DIOXIDE, FOAM, WATER SPRAY.

Fire Fighting Procedures:KEEP CONTAINERS COOL WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:AEROSOL CANS MAY BURST OVER 130F(54C) AND ADD TO EXISTING FIRE. CONDITIONS OF FLAMMABILITY: BULK AND AEROSOL-IGNITION WILL OCCUR IF USED NEAR FLAMES, ARCS, OR OTHER IGNITION SOURCES.

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

Spill Release Procedures:TURN OFF OR REMOVE SOURCES OF IGNITION. MOP UP OR SWEEP UP WITH ABSORBENT.

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

Handling and Storage Precautions:AVOID BREATHING VAPORS. AVOID EYE CONTACT. AVOID REPEATED OR PROLONGED SKIN CONTACT. STORE AWAY FROM HEAT SOURCE. DO NOT SPRAY AROUND ARCS OR FLAME.

Other Precautions:PRODUCT USE: PENETRANT INSPECTION DEVELOPER.

PACKAGES: 5 GALLON PAIL, AEROSOLS. NFPA RATING: HEALTH 1, FLAMMABILITY 3, REACTIVITY 0.

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

Respiratory Protection:RESPIRATOR WITH

FILTER IF SPRAYED IN ENCLOSED,
UNVENTILATED SPACE.

Ventilation:USE WHERE VENTILATION WILL CARRY VAPORS AWAY FROM
UNOCCUPIED AREAS.

Protective Gloves:WEAR NITRILE RUBBER GLOVES IF HAND EXPOSURE IS
UNAVOIDABLE.

Eye Protection:WEAR SAFETY GLASSES TO PROTECT EYES.

Supplemental Safety and Health

ITEM IS A THREE PART KIT. INSPECTION PENETRANT KIT CONSISTING OF 3
PRESSURIZED CANS OF PENETRANT, 3 PRESSURIZED CANS OF REMOVER AND 3
PRESSURIZED CANS OF NONAQUEOUS DEVELOPER. SEE MSDS SERI

AL # CLFKV A

ND CLFKL. UNIT KIT CONTAINS 9 AEROSOL CANS. CONTRACTOR'S PART
NUMBER/ TRADE NAME: ZYGLO KIT.

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

HCC:V3

Boiling Pt:=57.2C, 135.F

B.P. Text:INITIAL

Vapor Pres:105PSI(AEROSOL)

Vapor Density:3

Spec Gravity:0.86

pH:NEUTRAL

Evaporation Rate & Reference:0.4 OF ETHER

Solubility in Water:100

Appearance and Odor:WHITE LIQUID; ALCOHOL ODOR.

Percent Volatiles by Volume:85%

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

Stability Indicator/Materials to Avoid:YES

NONE

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:WHEN BURNING, SOOT, OXIDES OF CARBON.

===== Toxicological Information =====

Toxicological Information:CARCINOGENICITY: CONTAINS NO KNOWN OR
SUSPECTED CARCINOGENS LISTED WITH OSHA, IARC, NTP, ACGIH. THRESHOLD
LIMIT VALUE (BULK): 400 PPM. WHIMIS INFORMATION (CANADA): ACCORDING
TO AVAILABLE INFORMATION, THE INGREDIENT

NTS HAVE NOT BEEN FOUND TO
SHOW REPRODUCTIVE TOXICITY, TERATOGENICITY, MUTAGENICITY, SKIN
SENSITIZATION OR SYNERGISTIC TOXIC EFFECTS WITH OTHER MATERIALS.

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Ecological Information
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Ecological:NO DATA AVAILABLE ON ZP-9F.
2,2'-BIS(HYDROXYPROPYL)-1,3-PROPANEDIOL DISSOLVES IN WATER AND IS
BIODEGRADABLE.

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Disposal Considerations
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Waste Disposal Methods:SEND TO A LICENSED WASTE FACILITY FOR PROPER
DISPOSAL. RCRA: HAZARDOUS WASTE. EPA WASTE NUMBER: D001.

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MSDS Transport Information
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Transport Information:U.S. DOT: 49 CFR 172.101 HAZARDOUS MATERIALS
TABLE. AEROSOL: PROPER SHIPPING NAME: CONSUMER COMMODITY.
IDENTIFICATION NUMBER: NONE. PACKING GROUP: NONE. IATA: LIST OF
DANGEROUS GOODS: AEROSOL: PROPE R SHIPPING NAME: AEROSOLS,
FLAMMABLE. IDENTIFICATION NUMBER: UN1950. PACKING GROUP: -. IMDG:
GENERAL INDEX: AEROSOL: PROPER
SHIPPING NAME: AEROSOLS.
IDENTIFICATION NO.: UN1950. PACKING GROUP: -.

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Regulatory Information
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SARA Title III Information:SARA TITLE III SECTION 313: ACETONE.
Federal Regulatory Information:TSCA: ALL INGREDIENTS ARE LISTED IN TSCA
INVENTORY. CERCLA: REPORTABLE QUANTITY FOR ACETONE = 5000 LBS.
State Regulatory Information:CALIFORNIA PROPOSITION 65: CONTAINS
NOTHING ON THIS LIST.

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Other Information
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