

MAGNAFLUX DIV OF ILLINOIS TOOL WKS INC -- ZYGLO DEVELOPER ZP-9 F,ZA-43/60 R KIT --
6850-00-703-7406

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

Product ID:ZYGLO DEVELOPER ZP-9 F,ZA-43/60 R KIT

MSDS Date:06/13/1997

FSC:6850

NIIN:00-703-7406

Kit Part:Y

MSDS Number: CFFFG

=== Responsible Party ===

Company Name:MAGNAFLUX DIV OF ILLINOIS TOOL WKS INC

Address:3624 WEST LAKE AVENUE

City:GLENVIEW

State:IL

ZIP:60

025

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 / 53

38 (FAX)
CAGE:KO362
Company Name:MAGNAFLUX CORP
Address:218 E INDUSTRIAL ST
Box:UNKNOW
City:DE WITT
State:IA
ZIP:52742
Country:US
Phone:319-659-8143
CAGE:0JNN1

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

Ingred Name:ACETONE (SARA 313) (CERCLA)/2-PROPANONE
CAS:67-64-1
RTECS #:AL3150000
Fraction by Wt: 40 - 70%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1000 PPM
ACGIH TLV:750PPM/1000STEL;9596
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ISOPROPYL ALCOHOL (SARA
313)
CAS:67-63-0
RTECS #:NT8050000
Fraction by Wt: 10 - 30%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:400 PPM
ACGIH TLV:400 PPM/500STEL;9596

Ingred Name:PENTAERYTHRITOL/2,2'-BIS(HYDROXYMETHYL)-1,3-PROPANEDIOL
CAS:115-77-5
RTECS #:RZ2490000
Fraction by Wt: 10 - 30%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3; 9596

Ingred Name:CARBON DIOXIDE
CAS:124-38-9
RTECS #:FF6400000
Fraction by Wt: 7%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5000 PPM
ACGIH TLV:5000PPM/30

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===== Hazards Identification =====
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LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT KNOWN.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, CNS,
RESPIRATORY & GI TRACTS. ACUTE- MAY CAUSE EYE AND SKIN DEFATTING.
INHALATION OF VAPORS/ MIST MAY CAUSE IRRITATION & DIZZINESS.
INGESTION IS NOT SIGNIFICANT IN SMALL (MOUT HFUL) AMOUNTS.
CHRONIC-
UNKNOWN.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:IRRITATION, HEADACHE, NAUSEA, VOMITING,
DIZZINESS, FATIGUE, CONFUSION, BLURRED VISION, TEARING
Medical Cond Aggravated by Exposure:NONE

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===== First Aid Measures =====
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First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES:IMMEDIATELY
FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN: WASH WITH
SOAP & WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN
IF
NECESSA RY. ORAL:DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.
ACCIDENTAL INGESTION OF A SINGLE MOUTHFUL IS NOT EXPECTED TO CAUSE
SIGNIFICANT HARM.

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===== Fire Fighting Measures =====
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Flash Point Method:PMCC
Flash Point:FLAMMABL AEROSOL
Lower Limits:2%
Upper Limits:15%
Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, FOAM OR WATER. COOL
FIRE-EXPOSED CONTAINERS WITH WATER SPRAY.
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIO
SH-
APPROVED SELF-CONTAINED BREATHING APPARATUS.
Unusual Fire/Explosion Hazard:SPRAY CANS UNDER PRESSURE. FLAMMABLE.
EXPLOSION HAZARD EXISTS WHEN SPRAY CANS HEATED. DO NOT ENTER SPRAY
CAN STORAGE AREA IF FIRE PRESENT.

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===== Accidental Release Measures =====
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Spill Release Procedures:VENTILATE AREA. REMOVE IGNITION SOURCES.
LEAKING CONTAINERS SHOULD BE PLACED OUTDOORS, IN AN OPEN CONTAINER,
AWAY FROM SOURCES OF IGNITION. ALLOW PRESSURE TO DISSIPATE

. ABSORB

LIQUID WITH NON-FLAMMABLE ABSORBENT AND PLACE IN CONTAINER FOR DISPOSAL.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE SPRAY CANS IN COOL, WELL VENTILATED AREAS AWAY FROM SOURCES OF IGNITION & SUNLIGHT. DO NOT STORE ABOVE 130F.

Other Precautions:"EMPTY" CONTAINERS RETAIN RESIDUE AND MAY BE DANGEROUS. FOLLOW ALL LABEL INSTRUCTIONS. AVOID REPEATED/PROLONGED SKIN CONTACT.

KEEP OUT OF REACH OF CHILDREN. DO NOT BREATHE VAPORS.

DO NOT SPRAY TOWARD FACE/ HOT SURFACES. WASH AFTER HANDLING.

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

Respiratory Protection:IF TLV IS EXCEEDED, WEAR NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR OR AIR-PURIFYING RESPIRATOR. IN EMERGENCY, WEAR A NIOSH- APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO

MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:BUTYL IF SKIN CONTACT IS POSSIBLE

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

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

KEY1:F1. FORMULA CHANGED. FOR PREVIOUS FO

RMULATIONS, SEE PNI A - K AND

M, SANE NSN. FLAMMABLE. CONTENTS UNDER PRESSURE. CONTAINS FLAMMABLE LIQUID. DO NOT USE IN CONFINED AREA OR AREA WITH LITTLE AIR MOVEMENT. EMPLOY MEANS TO PREVENT VAPOR BUILDUP.

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

HCC:V3

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:135F,57C

Vapor Pres:6189 @ 75F

Vapor Density:3

Spec Gravity:0.86

Viscosity:NOT KNOWN

Evaporation Rate & Reference:0.4 (ETHER = 1)

Solubility in Wa

ter: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:HIGH HEAT, OPEN FLAMES, DIRECT SUNLIGHT,
TEMPERATURES ABOVE 130F/54C

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

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

Waste Disposal Methods:D

ISOPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE

AND FEDERAL REGULATIONS. DO NOT PUNCTURE, INCINERATE SPRAY CANS
EVEN AFTER USE. DO NOT FLUSH INTO DRAINS.

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