Product ID:ZP-4B, ZYGLO DRY POWDER DEVELOPER MSDS Date:02/19/1999 FSC:6850 NIIN:00-703-7406 Status Code:A Kit Part:Y MSDS Number: CKTRT === Responsible Party === Company Name:MAGNAFLUX 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 Preparer's Name: CHERI A. ZELEZNIK Chemtrec 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:SP0450-00-MD789 CAGE:37676 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-NJ99 CAGE:37676 Company Name: RADIAN INTL LLC Address:8501 N MOPAC B

LVD Box:201088 City:AUSTIN State:TX ZIP:78720-1088 Country:US Phone:512-419-5224 Contract Num:SP0450-00-D-4021 CAGE:29913

Ingred Name:2,2-BIS(HYDROXYMETHYL)-1,3-PROPANEDIOL CAS:115-77-5 RTECS #:RZ2490000 Minumum % Wt:40. Maxumum % Wt:70. Other REC Limits:NOT PROVIDED. OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name:SILANAMINE, 1,1,1-TRIMETHYL-N-(TRIMETHYLSILYL)-, HYDROLYSIS PRODUCTS WITH SILICA/HEXAMETHYLDISILAZANE. SIL ICA REACTION PRODUCT CAS:68909-20-6 Minumum % Wt:3. Maxumum % Wt:7. Other REC Limits:NOT PROVIDED. OSHA PEL:5 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name:ALUMINUM OXIDE CAS:1344-28-1 RTECS #:BD1200000 Minumum % Wt:3. Maxumum % Wt:7. Other REC Limits:NOT PROVIDED. OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:POTENTIAL HEALTH EFFECTS: SKIN CONTACT: NON

Ε.	EYES: GRITTY MATERIAL MAY SCRATCH EYEBALL.
	INHALATION: MAY PLUG BREATHING PASSAGES. INGESTION: NOT
	SIGNIFICANT.

Explanation of Carcinogenicity:CONTAINS NO KNOWN OR SUSPECTED CARCINOGENS LISTED WITH OSHA, IARC, NTP OR ACGIH.

Effects of Overexposure:POTENTIAL HEALTH EFFECTS: SKIN CONTACT: NONE. EYES: GRITTY MATERIAL MAY SCRATCH EYEBALL. INHALATION: MAY PLUG BREATHING PASSAGES. INGESTION: NOT SIGNIFICANT. Medical Cond Aggravated by Exposure:NONE

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First Aid:SKIN CONTACT: NONE. EYES: RINSE CAREFULLY UNDER UPPER AND LOWER EYELIDS USING PLENTY OF WATER. INHALATION: REMOVE TO FRESH AIR. INGESTION: NONE. NOTE: IN ALL SEVERE CASES, CONTACT PHYSICIAN IMMEDIATEL Y. LOCAL TELEPHONE OPERATORS CAN FURNISH NUMBER OF REGIONAL POISON CONTROL CENTER.

Flash Point:NONE Autoignition Temp:Autoignition Temp Text:NONE Lower Limits:N ONE Upper Limits:NONE Extinguishing Media:NONE Fire Fighting Procedures:NONE Unusual Fire/Explosion Hazard:FLOATING ZP-4B DUST CAN BE IGNITED BY HIGH ENERGY ARC (350 JOULES OR WATT-SECONDS) OR TEMPERATURES HIGHER THAN 383F (195C).

Spill Release Procedures:SWEEP UP.

Handling and Storage Precautions: KEEP DRY. AVOID BREATHING DUST. Other Precautions:*EM

ERGENCY OVERVIEW: NUISANCE DUST.

Respiratory Protection:RESPIRATOR WITH FILTER IF USED IN ENCLOSED, UNVENTILATED SPACE.
Ventilation:NOT PROVIDED.
Protective Gloves:NOT PROVIDED.
Eye Protection:NOT PROVIDED.
Other Protective Equipment:NOT PROVIDED.
Work Hygienic Practices:NOT PROVIDED.
Supplemental Safety and Health

PACKAGES: 1 PINT CAN, 10 AND 25 LB. BOXES.

HCC:V3 NRC/State Lic Num:NOT RELEVANT. Boiling Pt:B.P. Text:NONE Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED. Decomp Temp:Decomp Text:NOT PROVIDED. Vapor Pres:NONE Spec Gravity:0.2 pH:NEUTRAL Viscosity:NOT APPLICABLE. Evaporation Rate & amp; Reference:NONE Solubility in Water:4% Appearance and Odor:FLUFFY WHITE DUSTY POWDER - ODORLESS Percent Volatiles by Volume:NONE Corrosion Rate:NOT PROVIDED.

Stability Indicator/Materials to Avoid:YES ACIDS Stability Condition to Avoid:NOT PROVIDED. Hazardous Decomposition Products:IF HEATED TO COMBUSTION TEMPERATURE, SOOT, SMOKE, AND OXIDES OF CARBON.

Toxicological Information:CARCINOGENICITY: CONTAINS NO KNOWN OR SUSPECTED CARCINOGENS LISTED WITH OSHA, IARC, NTP, OR ACGIH. THRESHOLD LIMIT VALUE: 5 MG/M3 FOR RESPIRABLED UST. WHMIS INFORMATION (CANADA): ACCORDING TO AVAILABL E INFORMATION, THE

INGREDIENTS HAVE NOT BEEN FOUND TO SHOW REPRODUCTIVE TOXICITY, TETRATOGENICITY, MUTAGENICITY, SKIN SENSITIZATION, OR SYNERGISTIC TOXIC EFFECTS WITH OTHER MATERIALS.
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Ecological:NO DATA IS AVAILABLE ON ZP-4B.
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Waste Disposal Methods: DISPOSE OF AS ORDINARY WASTE.
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Transport Inform ation:U.S. DOT: 49 CFR 172.101 HAZARDOUS MATERIALS TABLE. BULK: PROPER SHIPPING NAME: NONE, NOT RESTRICTED. HAZARD CLASS OR DIVISION: NONE. IDENTIFICATION N.: NONE. PACKING GROUP: NONE.
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 SARA Title III Information:SARA TITLE III, SECTION 313: ALUMINUM OXIDE. Federal Regulatory Information:TSCA: ALL INGREDIENTS ARE LISTED IN TSCA INVENTORY. CERCLA: NOT REPORTABLE. State Regulatory Information:CALIFORNIA PROPOS ITION 65: CONTAINS NOTHING ON THIS LIST.
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