

MAGNAFLUX CORPORATION -- ZP-9F DEVELOPER -- 6850-01-264-8680

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

Product ID:ZP-9F DEVELOPER

MSDS Date:07/21/1988

FSC:6850

NIIN:01-264-8680

MSDS Number: BGRVT

=== Responsible Party ===

Company Name:MAGNAFLUX CORPORATION

Address:7300 W.LAWRENCE AVENUE

City:CHICAGO

State:IL

ZIP:60656-3504

Country:US

Info Phone Num:312-867-8000

Emergency Phone Num:312-867-8000

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/

CAGE:37676

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

Ingred Name:ACETONE (SARA III)

CAS:67-64-1

RTECS #:AL3150000

Fraction by Wt: 60.0%

OSHA PEL:1000PPM

ACGIH TLV:750PPM/1000STEL;9293

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:ISOPROPYL ALCOHOL (SARA III)

CAS:67-63-0

RTECS

#:NT8050000  
Fraction by Wt: 25.0%  
OSHA PEL:400 PPM/500 STEL  
ACGIH TLV:400 PPM/500STEL;9192

Ingred Name:PENTAERYTHRITOL  
CAS:115-77-5  
RTECS #:RZ2490000  
Fraction by Wt: 15.0%  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3; 9293

Ingred Name:CONTAINS NO OTHER INGREDIENT SUSPECTED OF BEING  
HAZARDOUS,PER MANUFACTURER MSDS.  
RTECS #:9999999ZZ

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Health Hazards Acute and Chronic:  
ACUTE: CAUSES SKIN/EYE IRRITATION. IF  
INHALED, WILL CAUSE DIZZINESS, DROWSINESS, OR NAUSEA.  
Effects of Overexposure:INHALATION:CAUSES DIZZINESS,DROWSINESS,NAUSEA;  
SKIN:LIQUID IRRITATES BY DISSOLVING SKIN OIL; EYES:VAPORS/LIQUID  
CAUSES IRRITATION.  
Medical Cond Aggravated by Exposure:NOT KNOWN

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

First Aid:INHALATION:REMOVE TO FRESH AIR.IF BREATHING IS DIFFICULT,GIVE  
OXYGEN; SKIN:REMOVE CONTAMINATED CLOTHES.WASH OF  
F WITH FLOWING  
WATER.USE SOOTHING LOTION.IF IRRITATION PERSISTS,GET MEDICAL ATTN;  
EYES:IMM EDIATELY RINSE/FLUSH WITH COPIOUS AMOUNTOF RUNNING  
WATER,AND GET MEDICAL ATTENTION.

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

Flash Point Method:PMCC  
Flash Point:2F (-16.7C)  
Extinguishing Media:WATER, CARBON DIOXIDE, FOAM  
Fire Fighting Procedures:KEEP CONTAINERS COOL WITH WATER SPRAY.  
Unusual Fire/Explosion Hazard:WHEN INVOLVE IN COMBUSTION,DECOMPOSES TO  
GIVE TO

XIC GASES.

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

Spill Release Procedures:REMOVE IGNITION SOURCES.SMALL SPILL:WIPE UP OR MOP UP BUT DO NOT BREATHE VAPORS.PLACE RAGS IN CLOSED DRUMS; LARGE SPILL: WEAR PERSONAL SAFETY EQUIPMENTS.DIKE AREA FAR AHEAD.ABSORB LIQUID WITH COMMERCIAL ABSORBENT.TRANSFER WASTE MATERIAL IN SALVAGE TANKS.

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

Handling and Storage Precautions:STORE AWAY FROM HEAT SOURCES IN WELL

VENTILATED AREA.AVOID AGAINST PHYSICAL DAMAGE TO CONTAINERS.KEEP CONTAINERS TIGHTLY CLOSED.

Other Precautions:DO NOT BREATHE VAPORS.DO NOT SMOKE WHILE USING.DO NOT HEAT ABOVE 130F(54C).AVOID FREQUENT OR PROLONGED SKIN CONTACT.

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

Respiratory Protection:WEAR A RESPIRATOR WITH ABSORBENT CARTRIDGE IN POORLY VENTILATED AREAS.IN CONFINED,UNVENTILATED SPACES,WEAR FULL MASK WITH AIR SUPPLY.

Ventilation:

GENERAL VENTILATION TO KEEP BELOW TLV LIMITS.

Protective Gloves:NITRILE RUBBER GLOVES

Eye Protection:CHEMICAL SPLASH/FULL GOGGLES

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.LAUNDER CONTAMINATED CLOTHES BEFORE RE-USE.

Supplemental Safety and Health

ITEM IS A ONE PART PRODUCT.SEVERAL OTHER PRODUCTS SUCH AS:SKD-HT,SKD-LT,SKD-NF/ZP-9B,SKD-S,ZP-5A,& ZP-9E DEVELOPERS ARE COVERD BY QPL25135-15,UNDER FORM D,TYPES I AND II OF MIL-I-25135D;EACH TYPE UNDER DIFFERENT NSN;THIS NSN( ESTABLISHED IN 1987) IS FOR TYPE II,FORM D ITEMS;SEE OTHER PNI FOR OTHER TYPE I/II,FORM D PRODUCTS.

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

HCC:F2

Boiling Pt:B.P. Text:135F(57.3C)

Vapor Pres:380MM@100F

Vapor Density:>1.0

Spec Gravity:0.86

Evaporation Rate & Reference:0.5 (ETHER=1)

Solubility in Water:APPRECIABLE

Appearance and Odor:HAZY WHITE LIQUID

Percent Volatiles by Volume:83.0%

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

Stab

ility Indicator/Materials to Avoid:YES

ACIDS,(CORROSIVE MATERIAL)

Stability Condition to Avoid:HIGH TEMPERATURE/HEAT

Hazardous Decomposition Products:ON BURNING, EMITS OXIDES OF CARBON

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

Waste Disposal Methods:INCINERATE OR DISPOSE OF AS EPA HAZARDOUS WASTE  
D001 (IGNITABLE WASTE),IN ACCORDANCE WITH ALL APPLICABLE  
FEDERAL,STATE,LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

Th

is 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.