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HENTZEN COATINGS INC -- AIRCRAFT GREEN ZENTHANE, MIL-C-53039A -- 8010-01-246-0717
========== Product Identification ==========

Product ID:AIRCRAFT GREEN ZENTHANE, MIL-C-53039A
MSDS Date:01/23/1992
FSC:8010
NIIN:01-246-0717
MSDS Number: BNWWC
=== Responsible Party ===
Company Name:HENTZEN COATINGS INC
Address:6937 W MILL ROAD
Box:18642
City:MILWAUKEE
State:WI
ZIP:53218
Country:US
Info Phone Num:414-353-4200

Emergency Phone Num:DAY 414-353-4200/NIGHT 800-424-9300
Preparer's Name:JANE FREEMAN
CAGE:09225
=== Contractor Identification ===
Company Name:HENTZEN COATINGS INC
Address:6937 WEST MILL ROAD
Box:18749
City:MILWAUKEE
State:WI
ZIP:53218
Country:US
Phone:414-353-4200
CAGE:09225

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

Ingred Name:METHYL ISOBUTYL KETONE (SOLVENT) (SARA III)
CAS:108-10-1
RTECS #:SA9275000
Fraction by Wt: 25.74%
Other REC Limits:NONE SPECIFIED
OSHA PEL:

100 PPM/75 STEL
ACGIH TLV:50 PPM/75 STEL; 9293
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:PREPOLYMER OF HEXAMETHYLENE DIISOCYANATE
(MFR: 0.5 MG/M3 TWA; 1.0 MG/M3 STEL)
Fraction by Wt: 30-40%
Other REC Limits:SEE ABOVE--MFR'S LMT

Ingred Name:TITANIUM DIOXIDE (PIGMENT)
CAS:13463-67-7
RTECS #:XR2275000
Fraction by Wt: 1.0-5.0%
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:IRON OXIDE (PIGMENT) (NUISANCE DUST)
CAS:1332-37
-2
RTECS #:NO7380000
Fraction by Wt: 10-15%
Other REC Limits:NONE SPECIFIED

Ingred Name:SILICA (PIGMENT)
CAS:14808-60-7
RTECS #:VV7330000
Fraction by Wt: 20-30%
Other REC Limits:NONE SPECIFIED
OSHA PEL:SEE TABLE Z3
ACGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:METHYL ISOAMYL KETONE (SOLVENT)
CAS:110-12-3
RTECS #:MP3850000
Fraction by Wt: 1.92%
Other REC Limits:NONE SPECIFIED
OSHA PEL:100 PPM
ACGIH TLV:50 PPM; 9293

Ingred Name:N-BUTYL ACETATE (SOLVENT) (SARA III)
CAS:123-86-4
RTECS #:AF7350000
Fr

action by Wt: 1.28%
Other REC Limits:NONE SPECIFIED
OSHA PEL:150 PPM/200 PPM STEL
ACGIH TLV:150 PPM/200 PPM STEL
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:HEXAMETHYLENE DIISOCYANATE MONOMER
CAS:822-06-0
RTECS #:MO1740000
Fraction by Wt: 0.05%
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.005 PPM
ACGIH TLV:0.005 PPM
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:AROMATIC HYDROCARBONS (MIXTURE OF C8'S-C10'S)
CAS:64742-95-6
Fraction by Wt: 1.22%
Other REC Limits:MFR'S: 100 PPM

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

Reports of Carcinogenicity:NTP:UNKNOWN IARC:YES
Health Hazards Acute and Chronic:VAPOR/MIST: IRRITATION TO SKIN, EYES, RESP TRACT. CHRONIC: RESPIRATORY SENSITIZATION. REPEATED/PROLONGED OVEREXPOSURE TO SOLVENTS ASSOCIATED WITH PERMANENT BRAIN & NERVOUS SYSTEM DAMAGE, LIVER, KIDNEY DAMAGE. MAY CAUSE LUNG INJURY IF NOT PROPERLY PROTECTED.
Explanation of Carcinogenicity:IARC HAS LISTED SILICA AS A PROBABLE HUMAN CARC
INOGEN.
Effects of Overexposure:VAPOR/MIST: WATERING EYES, THROAT DRYNESS, COUGHING, HEADACHE, CHEST TIGHTNESS, BURNING SENSATION. HEADACHE, DIZZINESS, NAUSEA MAY BE EXPERIENCED AS A RESULT OF EXPOSURE TO SOLVENTS. CHRONIC: ASTHMA L IKE SYMPTOMS SKIN SENSITIZATION: ALLERGIC DERMATITIS, RASH, ITCHING, HIVES, SWELLING OF EXTREMITIES.
Medical Cond Aggravated by Exposure:ASTHMA AND OTHER RESPIRATORY AILMENTS, CHEMICAL SENSITIZATION.

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

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First Aid:VAPORS: REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP WARM AND QUIET. NOTIFY A PHYSICIAN. EYES: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF RUNNING WATER FOR AT LEAST 15 MINUTES. TAKE TO A PHYSICIAN FOR M EDICAL TREATMENT. SKIN: WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. CONSULT A PHYSICIAN. INGESTION: IF SWALLOWED, CALL A PHYSICIAN IMMEDIATELY.

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

Fla
sh Point Method:TCC
Flash Point:60.0F,15.6C
Autoignition Temp:Autoignition Temp Text:840F
Lower Limits:1.0
Upper Limits:8.2
Extinguishing Media:FOAM, DRY CHEMICAL, CO2.
Fire Fighting Procedures:WEAR FULL PROTECTIVE EQUIPMENT W/SCBA. DURING A FIRE, IRRITATING AND HIGHLY TOXIC GASES AND SMOKE ARE PRESENT FROM DECOMPOSITION/COMBUSTION PRODUCTS.
Unusual Fire/Explosion Hazard:KEEP CNTNRS CLSD. KEEP FROM HEAT/IGNIT SOURCE. CLSD CNTNR MAY EXPLODE W/HEAT, BURST WHEN CONTAM W/WATER. DON'T
APPLY TO HOT SRFCS. NEVER WELD, CUT TORCH ON

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

Spill Release Procedures:EVACUATE NON-ESSENTIAL PERSONNEL. REMOVE IGNIT SOURCES. VENT AREA. AVOID BREATHING VAPORS. COVER SPILL W/INERT ABSORBENT. POUR NEUTRALIZER OVER SPILL. ALLOW TO REACT 10 MIN. COLLECT MAT'L W/NONSPARK T OOLS INTO OPEN CNTNRS, ADD MORE NEUTRALIZER.
Neutralizing Agent:3-8% CONC AMMONIA, 2% DETERGENT, 90-95% WTR OR TERGITOL TMN-10 (20%), WTR
(80%)

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

Handling and Storage Precautions:DON'T STORE ABOVE 120F OR BELOW 32F. STORE LRG QTY IN BLDGS IN COMPLY W/OSHA 1910.106. KEEP FROM IGNIT SOURCE. KEEP CNTNRS CLSD. PROTECT FROM MOISTR.
Other Precautions:IF MOISTURE ENTERS CNTNR, PRESSURE CAN BUILD, CAN CAUSE SEALED CNTNR TO PRESSURIZE & BURST. DON'T RESEAL IF CONTAM SUSPECTED. DON'T INGEST. GROUND CNTNR WHEN POURING. AVOID LIQ FREE FALL IN EXCESS OF FE

W INCHES. USE VENT & RESP EQUIP.

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

Respiratory Protection:SURGEON GENERAL REQUIRES AIRLINE RESPIRATORS USED UNLESS BELOW OSHA LIMITS, THEN CHEM CARTRIDGE RESPIRATOR OR AIRLINE RESPIRATORS REQ'D. THE SAME PRECUATIONS SHOULD BE USED DURING MIXING OR ANY OPERAT IONS WHERE PAINT FUMES WOULD BE PRESENT.
Ventilation:PROVIDE GEN DILUT/LOCAL EXHAUST (VOL/PATTRN)TO KEEP CONC BELOW TLV/PEL(MIXING/APPLIC/CURING AREAS) &
REMOVE DECOMP PROD.
Protective Gloves:CHEMICAL RESISTANT GLOVES.
Eye Protection:SFTY EYEWEAR W/SPLASH GUARD/SIDE SHLDS.
Other Protective Equipment:WEAR PROTECTIVE CLOTHING TO KEEP SKIN CONTACT AT A MINIMUM.
Work Hygienic Practices:WASH HANDS AND ANY EXPOSED SKIN THOROUGHLY BEFORE EATING OR SMOKING. SMOKE IN SMOKING AREAS ONLY.
Supplemental Safety and Health
(UNUSUAL FIRE HZD CONT'D) OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN RESIDUE) CAN IGNITE EXPLOSIVELY. (PRECAUTIONS CONT'D)
EMPTIED
CONTAINERS MAY RETAIN HAZARDOUS RESIDUE OR EXPLOSIVE VAPORS. FOL LOW ALL PRECAUTIONS IN THIS DATA SHEET UNTIL CONTAINER IS THOROUGHLY CLEANED OR DESTROYED.

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

HCC:F5
Boiling Pt:B.P. Text:232 TO 418F
Decomp Temp:Decomp Text:400F,204C
Vapor Pres:15.00
Vapor Density:> AIR
Spec Gravity:1.25
Viscosity:65-85 KU
Evaporation Rate & Reference:FASTER THAN BUTYL ACETATE
Solubility in Water:REACTS WITH WATER.
Appear
ance and Odor:OPAQUE LIQUID, SOLVENT ODOR.
Percent Volatiles by Volume:48.21

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

Stability Indicator/Materials to Avoid:YES
WATER, ALCOHOLS, GLYCOL ETHERS, AMINES.
Stability Condition to Avoid:WATER CONTAMINATION.
Hazardous Decomposition Products:CO2, CO, OXIDES OF NITROGEN, TRACES OF HYDROGEN CYANIDE, HEXAMETHYLENE DIISOCYANATE.

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

Waste Disposal Methods:DISPO

SE IN ACCORDANCE W/LOCAL, STATE AND FEDERAL
REGULATIONS. INCINERATION IS PREFERRED METHOD OF DISPOSAL. EPA
#:D001 IGNITABLE REMOVE CNTNRS TO SAFE PLACE--COVER LOOSELY. WASH
DOWN AREA W/NEUTRALIZI NG AGENT & FLUSH SPILL AREA W/WATER.

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