

HERBERT-VERKAMP-CALVERT CHEM. CO. -- 3730 BLACK ZENTHANE PC 08610KUY --  
8010-01-229-7540

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

Product ID:3730 BLACK ZENTHANE PC 08610KUY  
MSDS Date:01/24/1992  
FSC:8010  
NIIN:01-229-7540  
MSDS Number: BQYLV  
=== Responsible Party ===  
Company Name:HERBERT-VERKAMP-CALVERT CHEM. CO.  
Address:4600 DUES DRIVE  
Box:18642  
City:CINCINNATI  
State:OH  
ZIP:45246-1009  
Country:US  
Info Phon  
e Num:513-874-9261  
Emergency Phone Num:513-874-9261  
Preparer's Name:JANE FREEMAN  
CAGE:1HD53

==== 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  
Company Name:HERBERT-VERKAMP-CALVERT CHEMICAL  
Address:4600 DUES DRIVE  
Box:18642  
City:CINCINNATI  
State:OH  
ZIP:45246-1009  
Country:US  
Phone:513-874-9261  
CAGE:1HD53

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

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Ingred Name:METHYL ISOBUTYL KETONE (SOLVENT) (SARA III)

CAS:108-10-1

RTECS #:SA9750000

Fraction by Wt: 17.54%

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

Fraction by Wt: 30-40%

Other REC Limits:.5 MG/M3;STEL 1MG/M3

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:IRON OXIDE (PIGMENT) (NUISANCE DUST)

CAS:1332-37-2

RTECS #:NO7380000

Fraction by Wt: 5-10%

Other REC Limits:NONE SPECIFIED

Ingred Name:METHYL ISOAMYL KETONE (SOLVENT)

CAS:110-12-3

RTECS #:MP3850000

Fraction by Wt: 7.31%

Other REC Limits:NONE SPECIFIED

OSHA PEL:100 PPM

ACGIH TLV:50 PPM; 9293

Ingred Name:XYLENE (SOLVENT) (SARA III)

CAS:1330-20-7

RTECS #:ZE2100000

Fraction by Wt: 5.82%

Other REC Limits:NONE SPECIFIED

OSHA PEL:100 PPM/STEL 150 PPM

ACGIH

TLV:100 PPM/STEL 150 PPM  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:BUTYL ACETATE (SOLVENT) (SARA III)  
CAS:123-86-4  
RTECS #:AF7350000  
Fraction by Wt: 4.02%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:150 PPM/STEL 200 PPM  
ACGIH TLV:150 PPM/STEL 200 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:HEXAMETHYLENE-DIISOCYANATE MONOMER  
CAS:822-06-0  
RTECS #:MO1740000  
Fraction by Wt: 0.23%  
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

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

Reports of Carcinogenicity:NTP:UNKNOWN IARC:YES  
Health Hazards Acute and Chronic:SKIN, EYE, RESP TRACT IRRIT. CHRONIC:  
RESPIRATORY SENSITIZATION & SKIN SENSITIZATION. DERMATITIS.  
PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE, LIVER AND KIDNEY DAMAGE.  
LUNG INJURY.  
Explanation of Carcinogenicity:IARC HAS LISTED SILICA AS A PROBABLE  
HUMAN CARCINOGEN.  
Effects of Overexposure:WATERING EYES, THROAT DRYNESS, COUGHING,  
HEADACHE, CHEST TIGHTNESS/BURNING SENSATION. HEADACHE, DIZZINESS,  
NAUSEA, RASH, ITCHING HIVES & SWELLING OF EXTREMITIES.  
Medical Cond Aggravated by Exposure:ASTHMA AND OTHER RESPIRATORY  
AILMENTS; CHEMICAL SENSITIZATION.

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

First Aid:INHALATION: REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP  
WARM & QUIET. NOTIFY PHYSICIAN. EYES: FLUSH IMMEDIATELY WITH  
RUNNING WATER FOR AT LEAST 15 MIN, LIFTING EYELIDS.

TAKE TO

PHYSICIAN. SKIN: WASH AFFECTED AREAS WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING. WASH BEFORE REUSE. CONSULT PHYSICIAN IF IRRITATION DEVELOPS/PERSISTS. INGESTION: CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

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

Flash Point Method:TCC

Flash Point:60.0F,15.6C

Autoignition Temp:Autoignition Temp Text:448C

Lower Limits:1.0

Upper Limits:8.2

Extinguishing Media:FOAM, ALCOHOL FOAM, CO2, DRY CHEMIC

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Fire Fighting Procedures:FULL PROTECTIVE EQUIPMENT WITH SELF-CONTAINED BREATHING APPARATUS. DURING FIRE, IRRITATING/HIGHLY TOXIC GASES & SMOKE PRESENT FROM DECOMP/COMBUSTION PRODUCTS.

Unusual Fire/Explosion Hazard:KEEP CNTNR CLSD.KEEP FROM HEAT/IGNIT SOURCE.CLSD CNTNR MAY EXPLODE W/HEAT,BURST WHEN CONTAM W/WATER. DONT APPLY TO HOT SRFCS.NEVER CUT,WELD NEAR DRUM-EXPLOSIVE.

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

Spill Release Procedures:EVAC NON-ES

SENTL PEOPLE.REMOVE IGNIT

SOURCE.VENT.AVOID BREATHING.COVER SPILL W/INERT ABSORB.POUR LIQ DECONTAM OVER SPILLAGE-ALLOW 10 MIN REACT TIME.COLLECT MAT'L IN OPEN CNTNR ADD DECONTAM SOLUTION.CO VER LOOSELY.WASH DOWN AREA W/DECONTAM,FLUSH W/H2O.

Neutralizing Agent:3-8%CONC AMMONIA,2%DETERGENT & 90-95%WATER.

SOLUTN:TEGRITOL TMN-10-20%,WATER-80%

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

Handling and Storage Precautions:DONT STORE ABOVE 120F OR BELOW 32F.

STORE LRG QTY IN BLDGS DESIGNED TO COMPLY WITH OSHA 1910.106. KEEP FROM IGNIT SOURCE. KEEP CONTAINER CLOSED.

Other Precautions:IF MOISTURE ENTERS, DONT RESEAL. DONT INGEST. GROUND CONTAINERS WHEN POURING. AVOID LIQUID FREE FALL >FEW INCHES. USE W/VENT & RESP EQUIP. EMPTIED CONTAINERS MAY RETAIN HZD RESIDUE. FOLLOW PRECAUTIONS . AVOID EYE, SKIN, OR CLOTHING CONTACT.

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

Respiratory Protection:USE AIRLINE RESPIRA

TOR UNLESS AIR SAMPLING SHOWS

EXPOSURE TO BE BELOW PEL. THEN, EITHER CHEMICAL CARTRIDGE RESPIRATORS OR AIRLINE RESPIRATORS REQUIRED. USE SAME PRECAUTIONS DURING MIXING OR ANY OPERATIONS WHERE PAINT FUMES WOULD BE PRESENT.

Ventilation:GENERAL DILUTION/LOCAL EXHAUST TO KEEP BELOW PEL/TLV DURING MIXING, APPLICATION, CURING & REMOVE DECOMP PROD (WELD,CUT).

Protective Gloves:CHEMICAL RESISTANT GLOVES

Eye Protection:SAFETY EYEWEAR W/SPLASH GUARD & SIDESHLD

Other Protective Equipme

nt: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 DESIGNATED AREAS ONLY.

Supplemental Safety and Health

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

HCC:F2

Boiling Pt:B.P. Text:232 TO 298F

Decomp Temp:Decomp Text:400F,204C

Vapor Pres:15.00

Vapor Density:> AIR

Spec Gravity:1.21

Viscosity:65-68 KU

Evaporation Rate & Reference:FASTER THAN BUTYL ACETATE

Solubility in Water:REACTS WITH WATER

Appearance and Odor:OPAQUE LIQUID, SOLVENT ODOR

Percent Volatiles by Volume:50.76

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

Stability Indicator/Materials to Avoid:YES

WATER, ALCOHOLS, GLYCOL ETHERS, AMINES

Stability Condition to Avoid:CONTAMINATION WITH WATER

Hazardous Decomposition Products:CO<sub>2</sub>, CO, OXIDES OF NITROGEN, TRACES OF HYDROGEN CYANIDE, HEXAMETHYLENE DIISOCYANATE.

===== Disposal Considerations

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Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. INCINERATION IS PREFERRED METHOD OF DISPOSAL. HAZARDOUS WASTE NUMBER: D001; CHARACTERISTIC: IGNITABLE.

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