

HERBERT-VERKAMP-CALVERT CHEM. CO. -- BLACK ZENTHANE 37030, P/N 08610KUZ-GD --
8010-01-229-7540

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

Product ID:BLACK ZENTHANE 37030, P/N 08610KUZ-GD

MSDS Date:04/26/1993

FSC:8010

NIIN:01-229-7540

MSDS Number: BRKKY

=== Responsible Party ===

Company Name:HERBERT-VERKAMP-CALVERT CHEM. CO.

Address:4600 DUES DRIVE

City:CINCINNATI

State:OH

ZIP:45246-1009

Country:US

Info P

Phone 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

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

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Ingred Name:METHYL ISOAMYL KETONE
CAS:110-12-3
RTECS #:MP3850000
Fraction by Wt: 24.380%
Other REC Limits:NONE SPECIFIED
OSHA PEL:100 PPM
ACGIH TLV:50 PPM; 9293

Ingred Name:BLACK IRON OXIDE PIGMENT (EXPOSURE LIMITS ARE FOR IRON
OXIDE FUME)
CAS:1317-61-9
Fraction by Wt: 5-10%
Other REC Limits:NONE SPECIFIED
OSHA PEL:5 MG/M3
ACGIH TLV:5 MG/M3

Ingred Name:SILICA PIGMENT (SARA 313)
CAS:14808-60-7
RTECS #:VV7330000
Fraction by Wt: 20-30%
Other REC Limits:NONE SPECIFIED
OSHA PEL:SEE TABL
E Z3
ACGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE (HDI)
CAS:28182-81-2
RTECS #:HQ9170000
Fraction by Wt: 30-40%
Other REC Limits:MFR.5MG/M3STEL1MG/M3

Ingred Name:AROMATIC HYDROCARBONS (MIXTURE OF C8'S TO C10'S)
CAS:64742-95-6
Fraction by Wt: 1.217%
Other REC Limits:100 PPM = MFR.'S

Ingred Name:BUTYL ACETATE SOLVENT
CAS:123-86-4
RTECS #:AF7350000
Fraction by Wt: 1.217%
Other REC Limits:NONE SPECIFIED
OSHA PEL:150 PPM/STEL 200 PPM
ACGIH TLV:150 PPM/STEL 2

00 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: 0.049%
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:VM&P NAPHTHA SOLVENT
CAS:8030-30-6
RTECS #:DE3030000
Fraction by Wt: 5.287%
Other REC Limits:NONE SPECIFIED
OSHA PEL:300 PPM
ACGIH TLV:300 PPM

Ingred Name:XYLENE SOLVENT (SARA 313)
CAS:1330-20-7
RTECS #:ZE2100000
Fraction by Wt: 2
.005%
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:VOC: 3.482 LBS/GAL; 416.960 GRAMS/LITER
RTECS #:9999999VO
Other REC Limits:NONE SPECIFIED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:CHRONIC: OVEREXPO TO SOLVENTS CAUSE

PERMANENT BRAIN & NERVOUS SYSTEM DAMAGE, PLUS LIVER & KIDNEY.

OVEREXPOSURE TO ISOCYANATE CONTAINING PRODUCTS LEAD TO RESPIRATORY SENSITIZATION CHARACTERIZED BY ALLERGIC DERMATITIS WHICH INCLUDE RASH, ITCHING, HIVES & SWELLING OF EXTREMITIES.

Explanation of Carcinogenicity:BASED UPON LABORATORY ANIMAL DATA, IARC HAS LISTED SILICA AS A "PROBABLE HUMAN CARCINOGEN."

Effects of Overexposure:IRRITATION TO SKIN, EYES & RESPIRATORY TRACT (NOSE, THROAT, LUNGS). WATERING EYES, DRYNESS OF THROAT, COUGHING,

HEADACHE, TIGHTNESS IN CHEST OR BURNING SENSATION. HEADACHE, DIZZINESS OR NAUSEA MAY BE EXPERIENCED BY SOME AS A RESULT OF EXPOSURE TO SOLVENTS. MAY CAUSE LUNG INJURY IF RESPIRATORY PROTECTION IS NOT USED.

Medical Condition Aggravated by Exposure:ASTHMA AND OTHER RESPIRATORY AILMENTS; CHEMICAL SENSITIZATION.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. KEEP WARM & QUIET. CONSULT A PHYSICIAN.

EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES WHILE LIFTING EYELIDS. GET MEDICAL ATTENTION.

SKIN: WASH WITH SOAP & WATER TO AFFECTED AREAS. CONSULT A PHYSICIAN IF IRRITATION DEVELOPS OR PERSISTS. INGESTION: IF

SWALLOWED, CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

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

Flash Point Method:TCC

Flash Point:54.0F,12.2C

Autoignition Temp:Autoignition Temp Text:450.F

Lower Limits:0

.9

Upper Limits:8.2

Extinguishing Media:CO2, DRY CHEMICAL, FOAM, ALCOHOL FOAM.

Fire Fighting Procedures:FULL PROTECTIVE EQUIPMENT W/SCBA SHOULD BE WORN. DURING A FIRE, IRRITATING & HIGHLY TOXIC GASES & SMOKE ARE PRESENT FROM THE DECOMPOSITION/COMBUSTION PRODUCTS.

Unusual Fire/Explosion Hazard:CLOSED CONTAINER MAY EXPLODE EXPOSED TO EXTREME HEAT OR BURST WHEN CONTAMINATED W/H2O (CO2 EVOLVED). DON'T WELD, CUT, TORCH DRUM FULL/EMPTY MAY IGNITE & EXPLODE

===== Accident

al Release Measures =====

Spill Release Procedures:EVACUATE NON-ESSENTIAL PERSONNEL. REMOVE ALL SOURCES OF IGNITION (FLAMES, HOT SURFACES, ELECTRICAL, STATIC OR SPARKS). VENTILATE AREA. AVOID BREATHING VAPORS. COVER SPILL W/INERT ABSORBENT. POUR DECON TAMINANT OVER SPILLAGE. REMOVE CONTAINERS TO SAFE.

Neutralizing Agent:0-10% AMMONIUM HYDROXIDE,2-5% DETERGENT-TERGITOL TMN-10 (20%) & WATER (80%).

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

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Handling and Storage Precautions:DON'T STORE > 120F OR < 32F. LRG QUANTITIES IN BUILDINGS DESIGNED TO COMPLY W/OSHA 1910.106. KEEP AWAY FROM ALL HEAT. KEEP TIGHTLY CLOSED.

Other Precautions:DON'T INGEST. GROUNDED WHEN POURING. AVOID FREE FALL OF LIQUID EXCESS OF FEW INC. VENT WELL, PROPER RESPIRATORY EQUIP. EMPTY CONTAINERS RETAIN HAZARDOUS RESIDUE OR EXPLOSIVE VAPORS. PROTECT FM MOISTURE, IF MOIST ENTERS PRESSURE CAN BUILDUP

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

Respiratory Protection:THE SURGEON GENERAL REQUIRES AIRLINE RESPIRATORS USED UNLESS AIR SAMPLING SHOWS EXPOSURE BELOW OSHA LIMITS. THEN EITHER, CHEMICAL CARTRIDGE RESPIRATORS OR AIRLINE RESPIRATORS.

Ventilation:GENERAL DILUTION VENTILATION, LOCAL EXHAUST VENTILATION TO KEEP AIR CONTAMINANT CONCENTRATION BELOW OSHA REQUIREMENTS.

Protective Gloves:CHEMICAL RESISTANT GLOVES

Eye Protection:SAFETY GLASSES, FULL-FACE SHIELD

Other Protective Equipment:WEAR PROTECTIVE CLOTHING TO KEEP SKIN CONTACT AT A MINIMUM.

Work Hygienic Practices:REMOVE & WASH CONTAMINATED CLOTHING BEFORE REUSE. WASH THOROUGHLY AFTER HANDLING & BEFORE EATING OR SMOKING.

Supplemental Safety and Health
SMOKE IN DESIGNATED AREAS ONLY.

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

HCC:F2

Boiling Pt:B.P. Text:244 TO 418F

Decomp Temp:Decomp Text:400F,204C

Vapor Pres:15 @ 68F

Vapor Density:> AIR

Spec Gravity:1.20

Viscosity:65-68 KU

Evaporation Rate & Refe

rence:FASTER THAN BUTYL ACETATE

Solubility in Water:REACTS WITH WATER

Appearance and Odor:OPAQUE LIQUID WITH SOLVENT ODOR.

Percent Volatiles by Volume:51.55

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

Stability Indicator/Materials to Avoid:YES

EPOXY CATALYSTS, ALCOHOLS, GLYCOL ETHERS, BASES, METAL COMPLEXES OR OTHER ACTIVE MATERIALS.

Stability Condition to Avoid:CONTAMINATION W/H2O. ONCE MATERIAL HAS BEEN EXPOSED TO ANY OF THE BELOW OR ATMOSPHERIC MOISTURE, DON'

T

SEAL CONTAINER.

Hazardous Decomposition Products:BY FIRE: CO2, CO, OXIDES OF NITROGEN, TRACES OF HYDROGEN CYANIDE, HEXAMETHYLENE DIISOCYANATE.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS. DECONTAMINATE CONTAINERS PRIOR TO DISPOSAL. FOLLOW ALL PRECAUTIONS IN THIS DATA SHEET UNTIL CONTAINER IS THOROUGHLY CLEANED OR DESTROY ED.

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