

HENTZEN COATINGS INC -- 08610KUZ-GD ALIPHATIC POLYISOCYANATE #37030 BLACK ZENTHANE  
-- 8010-01-229-7540

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

Product ID:08610KUZ-GD ALIPHATIC POLYISOCYANATE #37030 BLACK ZENTHANE

MSDS Date:08/02/1996

FSC:8010

NIIN:01-229-7540

MSDS Number: CDVSL

=== Responsible Party ===

Company Name:HENTZEN COATINGS INC

Address:6937 W MILL ROAD

City:MILWAUKEE

State:WI

ZIP:53218-1225

C

Country:US

Info Phone Num:414-353-4200

Emergency Phone Num:414-353-4200 800-424-9300(CHEMTREC)

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 ISOAMYL KETONE SOLVENT

CAS:110-12-3

RTECS #:MP3850000

Fraction by Wt: 24.713%

Other REC Limits:

NONE SPECIFIED  
OSHA PEL:50 PPM  
ACGIH TLV:50 PPM

Ingred Name:BLACK IRON OXIDE PIGMENT  
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:0.1 MG/M3  
ACGIH TLV:0.1 MG/M3

Ingred Name:HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE (HDI)(EXACT  
PERCENTAGE IS A TRADE SECRET)  
CAS:28182-81-2  
RTECS #:HQ9170000  
Fraction by  
Wt: 20-30%

Ingred Name:AROMATIC HYDROCARBONS (MIXTURE OF C8'S TO C10'S)  
CAS:64742-95-6  
Fraction by Wt: 1.19%  
Other REC Limits:100 PPM = MFR'S

Ingred Name:BUTYL ACETATE SOLVENT  
CAS:123-86-4  
RTECS #:AF7350000  
Fraction by Wt: 1.19%  
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 (SARA 313)  
CAS:822-06-0  
RTECS #:MO1740000  
Fraction by Wt: 0.036%  
Other REC Limits:NON

E 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: 5.025%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:300 PPM  
ACGIH TLV:300 PPM

Ingred Name:XYLENE (SARA 313)  
CAS:1330-20-7  
RTECS #:ZE2100000  
Fraction by Wt: 2.602%  
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:CARBON BLACK  
CAS:1333-86-  
4  
RTECS #:FF5800000  
Fraction by Wt: 0.752%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:3.5 MG/M3  
ACGIH TLV:3.5 MG/M3

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===== Hazards Identification =====  
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:CHRONIC: PERMANENT  
BRAIN/NS/LIVER/KIDNEY/LUNG DAMAGE. RESP SENSITIZATION. SKIN:  
RED/RASH/SCALING/BLISTER/SESITIZATION. ACUTE: INHAL: RESP TRACT  
MUCOUS MEMBR

ANE IRRIT. BRONCHITIS/BRONCHIAL SPASM/PULMONARY  
EDEMA/CHEMICAL OR HYPERSENSITIVE PNEUMONITIS/THROAT DRYNESS/CHEST  
TIGHTNESS/HEADACHE/NAUSEA/FATIGUE/APPETITE LOSS.\*

Explanation of Carcinogenicity:IARC HAS LISTED SILICA AS A "PROBABLE  
HUMAN CARCINOGEN", AND CARBON BLACK AS A POSSIBLE HUMAN CARCINOGEN.

Effects of Overexposure:\*SKIN: IRRIT, RED, RASH, SWELL, SCALING,  
BLISTER, SENSITIZATION, DEFATTING, DERMATITIS. EYE: IRRIT, TEAR,  
RED, SWELL, STINGING SENSATION, CORNEAL DAMAGE, I

NGEST:

IRRIT/CORROSION TO MOUTH, STOMACH, DIGESTIVE TRACT (SORE THROAT,  
ABDOMINAL PAIN, NAUSEA, VOMIT, DIARRHEA, CHEMICAL PNEUMONITIS).

Medical Conditions Aggravated by Exposure:SKIN ALLERGIES AND EXEMA, ASTHMA &  
OTHER RESPIRATORY AILMENTS, CHEMICAL SENSITIZATION.

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

First Aid:INHAL: REMOVE TO FRESH AIR. RESTORE BREATHING. CALL DR. EYES:  
FLUSH IMMEDIATELY W/LUKE WARM RUNNING WATER >15 MIN, LIFT LIDS. GET MED  
AID. SKIN:  
REMOVE CONTAMINATED CLOTHES/WASH BEFORE REUSE. USE SAFETY  
SHOWER (WASH W/ SOAP/WATER). GET MED AID. INGEST:CALL DR IMMEDIATELY.  
DON'T INDUCE VOMITING.

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

Flash Point Method:TCC

Flash Point:54.0F,12.2C

Autoignition Temp:Autoignition Temp Text:450F

Lower Limits:0.9

Upper Limits:8.2

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

Fire Fighting Procedures:FULL PROTECTIVE EQUIPMENT W/SCBA. DURING A  
FIRE, IRRITATING & HIGHLY

TOXIC GASES & SMOKE ARE PRESENT FROM THE  
DECOMPOSITION/COMBUSTION PRODUCTS.

Unusual Fire/Explosion Hazard:CONTAINERS MAY EXPLODE W/HEAT OR BURST  
WHEN CONTAMINATED W/H2O (CO2 RELEASED). DON'T APPLY TO HOT  
SURFACES, WELD, CUT, OR TORCH DRUM.

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

Spill Release Procedures:EVAC AREA. REMOVE IGNITORS. VENT AREA. USE  
APPROPRIATE PROTECTIVE EQUIPMENT. AVOID BREATHING VAPORS/SKIN CONTACT.  
DIKE/COVER W/INERT ABSORBENT. ADD DECONTAMINANT

INANT, ALLOW TO REACT >10

MIN. CONTAINERIZE, ADD MORE DEC ONTAMINANT. COVER LOSELY FOR 24-48  
HRS.

Neutralizing Agent:3-8% CONCENTRATED AMMONIA/2% DETERGENT/90-95% H2O OR  
TERGITOL 20%/WATER 80%.

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

Handling and Storage Precautions:DON'T STORE >120F OR