

HENTZEN COATINGS, INC -- SAND ZENTHANE 08618TUA-GD -- 8010-01-234-2934  
===== Product Identification =====

Product ID:SAND ZENTHANE 08618TUA-GD

MSDS Date:04/26/1993

FSC:8010

NIIN:01-234-2934

MSDS Number: BRKLJ

=== Responsible Party ===

Company Name:HENTZEN COATINGS, INC

Address:6937 W MILL ROAD

City:MILWAUKEE

State:WI

ZIP:53218

Country:US

Info Phone Num:414-353-4200

Emergency Phone Num:414-353-420

0/800-424-9300 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: 30.700%

Other REC Limits:NONE SPECIFIED

OSHA PEL:100 PPM

ACGIH TLV:50 PPM; 9293

Ingred Name:

YELLOW IRON OXIDE (PIGMENT) (EXPOSURE LIMITS ARE FOR IRON  
OXIDE FUME)

CAS:51274-00-1

Fraction by Wt: 1-5%

Other REC Limits:NONE SPECIFIED

OSHA PEL:5 MG/M3

ACGIH TLV:5 MG/M3

Ingred Name:TITANIUM DIOXIDE (PIGMENT)

CAS:13463-67-7

RTECS #:XR2275000

Fraction by Wt: 5-10%

Other REC Limits:NONE SPECIFIED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

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

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CGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE

CAS:28182-81-2

RTECS #:NQ9170000

Fraction by Wt: 20-30%

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

Ingred Name:TRIVALENT CHROME (INSOLUBLE) (SARA III)

CAS:7440-47-3

RTECS #:GB4200000

Fraction by Wt: 13687%

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.5 MG/M3

ACGIH TLV:0.5 MG/M3

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:AROMATIC HYDROCARBON (MIXTURE OF C8'S TO C10'S)

CAS:64742-95-6

Fraction by Wt: 1.259%

Other REC

Limits:MFR LIMIT: 100 PPM

Ingred Name:BUTYL ACETATE (SOLVENT)

CAS:123-86-4

RTECS #:AF7350000

Fraction by Wt: 1.258%

Other REC Limits:NONE SPECIFIED

OSHA PEL:150 PPM

ACGIH TLV:150 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: 0.050%

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:VOC: 3.496 LBS/GAL; 418.925 GRAMS/LITER

RTECS #:99999

99VO

Other REC Limits:NONE SPECIFIED

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

Reports of Carcinogenicity:NTP:UNKNOWN IARC:YES

Health Hazards Acute and Chronic:ACUTE; IRRITATION TO SKIN, EYES, & RESPIRATORY TRACT (WATERING EYES, DRY THROAT, COUGHING, HEADACHE, TIGHT CHEST, BURNING SENSATION). HEADACHE, DIZZINESS, NAUSEA MAY BE EXPERIENCED BY SOME AS A RESULT OF EXPOSURE TO SOLVENTS.

Explanation of Carcinogenicity:IARC HAS LISTED SILICA AS A PROBABLE

HUMAN CARCINOGEN.

Effects of Overexposure:CHRONIC: REPEATED & PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN & NERVOUS SYSTEM DAMAGE, LIVER, & KIDNEY DAMAGE. RESPIRATORY SENSITIZATION (ASTHMA LIKE SYMPTOMS), SKIN SENSITIZATION (RASH, ITCHING, HIVES, SWELLING OF THE EXTREMITIES). DERMATITIS.

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

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

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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 PHYSICAN OR POISON CONTROL CENTER IMMEDIATELY.

===== Fire Fighting Measures =====  
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Flash Point Method:TCC  
Flash Point:60.0F,15.6C  
Lower Limits:1.0  
Upper Limits:8.2  
Extinguishing Media:FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL  
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 W/WATER CONTAMINATN. DONT APPLY TO HOT SRFCs.NEVER CUT,WELD NEAR DRUM-EXPLOSIVE.

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

Spill Release Procedures:EVAC NON-ESSENTL PEOPLE.REMOVE IGNIT SOURCE.VENT.AVOID BREATHING.COVER SPILL W/INERT ABSORB.POUR LIQ DECONTAM OVER SPILL-ALLOW 10 MIN TO REACT.COLLECT MAT'L IN OPEN CNTNR ADD MORE DECONTAM SOLUTION.CO VER LOOSELY.WASH DOWN AREA W/DECONTAM,FLUSH W/H2O.  
Neutralizing Agent:0-10%AMMONIUM HYDROXIDE,2-5%DETERGENT & WATER.SOLUTN:TEGRITOL 20%TMN-10 ,80%WATER

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

Handling and Storage Precautions:STORE BETWEEN 120F & 32F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED TO COMPLY WITH OSHA 1910.106. KEEP FROM SPARKS & OPEN FLAME. KEEP CNTNRS CLSD.  
Other Precautions:IF MOISTURE ENTERS CNTNR, DONT RESEAL. DONT INGEST. GROUND CNTNRS WHEN POURING. AVOID LIQ FREE FALL >FEW INCHES. USE W/VENT & RESP EQUIP. EMPTIED CNTNRS MAY RETAIN HZD RESIDUE. FOLLOW PRECAUTIONS. AV

O ID EYE, SKIN, & CLOTHING CONTACT.

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

Respiratory Protection:USE AIRLINE RESPIRATOR 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 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 DESIGNATED AREAS ONLY.

Supplemental Safety and Health

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

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

Decomp Temp:Decomp Te

xt:400F,204C

Vapor Pres:8.00

Vapor Density:> AIR

Spec Gravity:1.23

Evaporation Rate & Reference:EQUAL TO BUTYL ACETATE

Solubility in Water:REACTS WITH WATER

Appearance and Odor:OPAQUE LIQUID, SOLVENT ODOR

Percent Volatiles by Volume:51.19

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

Stability Indicator/Materials to Avoid:YES

ONCE MATERIAL HAS BEEN EXPOSED TO ANY OF THE ABOVE OR ATMOSPHERIC MOISTURE DONT SEAL CNTNR AS CO2 COULD BLDUP IN CNTNR.

Stability Condition

to Avoid:CONTAMINATION WITH WATER, EPOXY CATALYSTS, ALCOHOLS, GLYCOL ETHERS, BASES, METAL COMPLEXES OR OTHER ACTIVE MATERIALS.

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

Conditions to Avoid Polymerization:SEE ABOVE

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. DECONTAMINATE CONTAINERS PRIOR TO

DISPOSAL.

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