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HENTZEN COATINGS, INC. -- #37030 BLACK ZENTHANE MIL-C-53039A #08610KUZ-GD 8010-01-229-7540

Product ID:#37030 BLACK ZENTHANE MIL-C-53039A #08610KUZ-GD MSDS Date:04/28/1998 FSC:8010 NIIN:01-229-7540 Status Code:A **MSDS Number: CJHLL** === Responsible Party === Company Name: HENTZEN COATINGS, INC. Address:6937 WEST MILL ROAD Box:18642 City:MILWAUKEE State:WI ZIP:532 18 Country:US Info Phone Num:414-353-4200 Emergency Phone Num:414-353-4200, DAY 800-424-9300, NITE Preparer's Name: JANE FREEMAN Chemtrec Ind/Phone:(800)424-9300 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 Contract Num:GS-10F-40821 CAGE:09225

Ingred Name:SILICA, CRYSTALLINE CAS:14808-60-7 RTEC S #:VV7330000 Fraction by Wt: 20-30% Other REC Limits:NONE OSHA PEL:0.1 MG/M3 ACGIH TLV:0.1 MG/M3

Ingred Name:XYLENE (SARA III) CAS:1330-20-7 RTECS #:ZE2100000 Fraction by Wt: 3.4960% Other REC Limits:STEL=150 PPM OSHA PEL:100 PPM ACGIH TLV:100 PPM EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:AROMATIC HYDROCARBONS (MIXTURE OF C8'S TO C10'S) CAS:64742-95-6 Fraction by Wt: 1.1700% Other REC Limits:100 PPM=MFR'S LIMIT

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

Fraction by Wt: 1.1700% Other REC Limits:200 PPM=STEL 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: .0350% Other REC Limits:NONE OSHA PEL:0.005 PPM ACGIH TLV:0.005 PPM EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE CAS:28182-81-2 RTECS #:NQ9170000 Fraction by Wt: 20-30% Other REC Limits:TWA=0.5MG/M3(MFR)

Ingred Name:YELLOW IRON

OXIDE PIGMENT CAS:51274-00-1 Fraction by Wt: 1-5% Other REC Limits:IRON OXIDE FUME OSHA PEL:5 MG/M3 ACGIH TLV:5 MG/M3

Ingred Name:METHYL ISOAMYL KETONE CAS:110-12-3 RTECS #:MP3850000 Fraction by Wt: 23.3380% OSHA PEL:50 PPM ACGIH TLV:50 PPM

Ingred Name:VM&P NAPHTHA CAS:64742-89-8 Fraction by Wt: 5.0950% OSHA PEL:300 PPM ACGIH TLV:300 PPM

Ingred Name:BLACK IRON OXIDE PIGMENT CAS:1317-61-9 Fraction by Wt: 5-10% Other REC Limits:IRON OXIDE FUME OSHA PEL:5 MG/M3 ACGIH TLV:5 MG/M3

Ingred Name:CAR BON BLACK CAS:1333-86-4 RTECS #:FF5800000 Fraction by Wt: .7530% OSHA PEL:3.5 MG/M3 ACGIH TLV:3.5 MG/M3

Reports of Carcinogenicity:NTP:YES IARC:YES Health Hazards Acute and Chronic:ACUTE:EYES:IRRIT/TEARING/REDDENING/SWELLING/STINGING.IF UNTREATED:CORNEAL DAMAGE/SLOW TO HEAL.SKIN:IRRIT:REDDENING/RASH/SWELLING/SCALING/BLISTERING/POSSIBLE SKIN SENSITIZATION.IF MATERIAL DRIES ON SKI N:REMOVAL VERY DIFFICULT

.REPEATED/PROLONGED SKIN CONTACT:POSSIBLE DEFATTING/DERMATITIS.INHAL:ANESTHETIC.POSSIBLE RESP TRACT **IRRIT/ACUTE NERVOUS SYSTEM DEPRESSION SHOWN BY** HEADACHE/DIZZINESS/STAGGERING /CONFUSION/UNCONSCIOUSNESS.ISOCYANATES IRRIT/BURN MUCOUS MEMBRANE IN RESP TRACT(NOSE/THROAT/LUNGS):RUNNY NOSE/SOAR THROAT/COUGHING/CHEST DISCOMFORT/SHORTENED BREATH/REDUCED LUNG FUNCTION/BREATHING OBS TRUCTION.*CONTINUED UNDER SIGNS/SYMPTOMS Explanation of Carcinogenicity: IARCH LISTS CRYSTALINE SILICA AS GROUP 1, CARCENOGENIC TO HUMANS.NTP CLASSIFIES RESPIRABLE CRYSTALINE SILICA AS REASONABLY ANTICIPATED TO BE CARCINOGEN: MAY CAUSE LUNG INJURY IF RESP PRECAUTIONS NOT USE D.CONTAINS CARBON BLACK:LISTED BY IARC AS POSSIBLE HUMAN CARCINOGEN: GROUP IIB, BASED ON LAB ANIMAL INHALATION STUDIES. Effects of Overexposure: CONTINUED HEALTH HAZ: INHAL: POSSIBLE ASTHMA-LIKE SYMPTOMS/ASTHMA ATTACK.POSSIBLE BRONCITIS/BRONCHIAL SPASM/PULMONARY EDEMA.THESE EFFECTS USUALLY REVERS ABLE.POSSIBLE CHEMICAL PNEUMONITIS W/FLU-LIKE SYMP TOMS(FEVER/CHILLS).POSSIBLE THROAT DRYNESS/CHEST TIGHTNESS/HEADACHE/NAUSEA/FATIGUE/APPETITE LOSS.INGEST: IRRIT/POSSIBLE CORROSIVE ACTION: MOUTH/STOMACH TISSUE/DIGEST TRACT.SYMPTOMS:SOAR THROAT/ABDOMONAL PAIN/NAUSEA/VOMITING/DIARRHEA.VOMITING CAUSE POSSIBLE ASPIRATION OF SOLVENT INTO LUNGS LEADING TO CHEMICAL PNEUMONITITS. **CONTINUED UNDER TOXICOLOGICAL SECTION (SIGN&SYMPTOMS LISTED BELOW UNDER MED COND AGGRAVATED Medical Cond Aggravated by Exposure: ASTHMA/OTHER RESP AILMENTS.SKIN

['] Medical Cond Aggravated by Exposure:ASTHMA/OTHER RESP AILMENTS.SKIN ALERGIES/EXEMA.CHEM SENSTZATION.SIGNS&SYMPTOMS:HARMFUL IF INHALED.EFFECTS:NOSE,THROAT,RESP TRACT IRRIT,ALERGIC RESP REACTION,LUNG DAMAGE,EYE&SKIN IRRIT,SKIN REACTIONS.

First Aid:EYES: FLUSH IMMED WI/LOW PRESSURE LUKE WARM WATER FOR 15 MINUTES, LIFTING LIDS TO RINSE ENTIRE EYE. TAKE TO DR IMMED.SKIN: REMOVE CONTAMINATED CLOTHING IMMED & W

ASH THOROUGHLY BEFORE REUSE.

WASH EFFEC TED AREAS THOROUGHLY W/SOAP/WATER. SEVERE EXPOSURE:GET UNDER SAFETY SHOWER AFTER REMOVING CLOTHING. CALL DR IN BOTH CASES.INHAL:REMOVE TO RISK FREE AREA.ADMINISTER OXYGEN/ARTIFICIAL RESP AS NEEDED. GE T DR. POSSIBLE ASTHMIATIC TYPE SYMPTOMS IMMED OR SEVERAL HOURS LATER. SEE DR. INGEST:CALL DR IMMED! DO NOT INDUCE VOMITING.

Flash Point:=12.2C, 54.F Autoignition Te mp:=232.2C, 450.F
Lower Limits:.90
Upper Limits:8.20
Extinguishing Media:FOAM, DRY CHEMICAL AND CO2 OR ALCOHOL FOAM
Fire Fighting Procedures:FULL PROTECT EQUIP W/ SELF-CONTAINED BREATHING
APPARATUS SHOULD BE WORN.DURING FIRE, IRRIT & HIGHLY TOXIC GASES & SMOKE ARE PRESENT FROM DECOMP/COMBUST PRODS.KEEP CONTRS TIGHTLY
CLOSED.ISOLATE FROM HE AT/ELECTRICAL EQUIP/SPARKS/OPEN FLAMES.
Unusual Fire/Explosion Hazard:CLOSED CONTRS MAY EXPLODE WHEN EXPOSED TO
EXTREME HEAT OR BURST WHEN CON
TAM W/ H20 (CO2 RELEASED).DO NOT
APPLY TO HOT SURFACES.NEVER USE WELDING/CUTTING TORCH ON/NEAR
CONTRS(EVEN EMPTY) B/C PRODUCT(EV EN RESIDUE) CAN IGNITE
EXPLOSIVELY.FLAMMABLE LIQUID!KEEP AWAY FROM
HEAT/SPARKS/FLAME.VAPORS MAY CAUSE FLASH FIRE.

Spill Release Procedures:EVAC NON-ESSENTIAL PERSONNEL.REMOVE ALL IGNIT SOURCES:FLAMES/HOT SURFACES/ELECTRICAL/STATIC & FRICTIONAL SPARKS.VENTILATE AREA.EQUIP CLEAN UP CREW W/APRROP PROTECTIVE

EQUIP.AVOID BREATH VAPORS/SKIN CO NTACT.COVER SPILL W/INERT ABSORBENT.POUR LIQUID DECONTAM OVER SPILL:LET STAND 10 MIN.COLLECT MATERIAL IN OPEN CONTNRS/ADD FURTHER AMOUNTS DECONTAM SOLUTION.***CONT UNDER ECOLOGICAL SECTION Neutralizing Agent:CONCENTRTD AMONIA(3-8%),DETERGENT(2%)&H2O(90-95%).OR SOLUTION OF NIACT CORP'S TERGITOL TMN-10(20%) & H2O(80%).

Handling and Storage Precaut

ions:PROTECT PERSONS HANDLING PRODUCT:MUST NOT BREATHE VAPORS/CONTACT EYES/SKIN. IN SPRAY OPERATIONS:PROTECTION AFFORDED AGAINST EXPOSURE TO VAPOR/SPRAY MIST.CAN CAUSE IRRIT TO EYES/SKIN/NOSE/THROAT.AVOID EYES/CLOTHING CONTACT.WASH THOROUGHLY AFTER HANDLING. AVOID PROLONGED/REPEATED CONTACT W/SKIN.

Other Precautions:USE GROUNDING/BONDING CONNECTIONS IN TRANFERING MATERIAL TO PREVENT STATIC DISCHARGE/FIRE OR EXPLOSION.AVOID LIQUID FREE-FALL>FEW INCHES.USE SPARK PROOF TOOLS/EXPLOSION PROOF EQUIP.DON'T STORE ABOVE 1 20F OR BELOW 32 F.STORE LG QUANTITIES IN BUILDINGS THAT COMPLY W/OSHA'S 29 CFR 1910.106. ****CONT UN DER ECOLOGICAL

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

Respiratory Protection: AIRLINE RESPIRATORS UNLESS AIR SAMPLING SHOWS EXPOSURE TO BE BELOW OSHA LIMITS. THEN, EITHER CHEMICAL CARTRIDGE RESPIRATORS OR AIRLINE RESPIRATORS ARE REQUIRED.USE SAME PRECAUTIONS DURING MIXING OR WH ERE PAINT FUMES WO ULD BE PRESENT. *****CONTINUED UNDER OTHER INFORMATION SECTION Ventilation: EXHAUST TO KEEP AIRBORN CONTAMS BELOW EXPOSURE LIMITS. CLEAN EXHAUST AIR BY SCRUBBER/FILTERS.VENT CURING OVENS.IF OVEN OFF, GASES NOT VENTED PROPERLY Protective Gloves: PERMIATION RESISTANT GLOVES Eye Protection: SAFETY EYE WEAR W/SPLASH GUARDS OR SIDE SHIELDS. FACE SHIELD.NO CONTACT LENSES. Other Protective Equipment: WEAR PROTECTIVE CLOTHING TO KEEP SKIN CONTACT AT A MINIMUM.KEEP SKIN CREAM PROTECTED AREAS TO A MINIMUM.SAFETY SHOWERS/EYE WASH STATIONS.TRAIN EMPLOYEES IN SAFE USE OF THIS PRODUCT. Work Hygienic Practices: ONCE A PERSON IS SENSITIZED TO ISOCYANATES, NO FURTHER EXPOSURE CAN BE PERMITTED. Supplemental Safety and Health MEDICAL SUPERVISION OF ALL EMPLOYEES HANDLING THIS PRODUCT RECOMMENDED.SHOULD INCLUDE PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMS W/ RESP FUNCTION TESTS(FEV, FVC MINIMUM).PERSONS W/ASTHMA-TYPE CONDITIONS/ BRONCHITIS/OTHER RESP DISEASES OR RECURRENT SK IN EXEMA/SENSITIZATION SHOULD BE EXCLUDED FROM WORKING W/ISOCYANATES. Boiling Pt:B.P. Text:244 F TO 418 F Vapor Pres:15 Vapor Density:4.800 Spec Gravity:1.2040 VOC Grams/Liter:3.5 Evaporation Rate & amp; Reference: 2.0000 (N-BU AC=1) Solubility in Water: REACTS WITH WATER

Appearance and Odor: OPAQUE LIQUID, SOLVENT ODOR

Percent Volatiles by Volume:51.580

St

ability Indicator/Materials to Avoid:YES

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

- Stability Condition to Avoid:ONCE PRODUCT IS EXPOSED TO ANY MATERIALS LISTED BELOW (INCLUD ATMOSPHERIC MOISTURE), DO NOT RESEAL CONTR AS HAZ CO2 GAS COULD BUILD UP IN CONTR RESULTING IN RAPID DEPRESSURIZATION.
- Hazardous Decomposition Products:MAY PRODUCE HAZ FUMES WHEN HEATED TO DECOMP POINT(AS IN WELDING). FUMES MAY CONTAIN:CO2, CO, CHLORINE,HYDROGEN CHLORIDE & POSSIBLE CYANIDE, HEXAMETHYLENE DIISOCYANATE.

Toxicological Information:*CONT HEALTH HAZ CHRONIC:POSSIBLE PERMANENT BRAIN,NERVOUS SYSTEM,LUNG,LIVER&KIDNEY DAMAGE.CERTAIN PERSONS DEVELOP ISOCYANATE SENSITIZATION(CHEMICAL ASTHMA)CAUSING REACTIONS TO LATER EXPOSURE WELL