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HENTZEN COATINGS, INC. -- GREEN 383 ZENTHANE MIL-C-53039A #08605GUZ-GD

8010-01-229-7546

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

Product ID:GREEN 383 ZENTHANE MIL-C-53039A #08605GUZ-GD

MSDS Date:04/28/1998

FSC:8010

NIIN:01-229-7546

Status Code:A

MSDS Number: CJHWH === Responsible Party ===

Company Name: HENTZEN COATINGS, INC.

Address:6937 WEST MILL ROAD

Box:18642

City:MILWAUKEE

State:WI ZIP:53218 Coun

try: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

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

Ingred Name: SILICA, CRYSTALLINE

CAS:14808-60-7 RTECS #:VV7 330000

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: 3.6570%

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: CHROMIC OXIDE (CHROMIUM COMPOUND)

CAS:1308-38-9

Fraction by Wt: 8.1510%

Other REC Limits:68% TRIVALENT CHROME

OSHA PEL:0.5 MG/M3(AS CHROME) ACGIH TLV:0.5 MG/M3(AS CHROME)

EPA Rpt Qty:1 LB DOT Rpt Qty:1

LB

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

CAS:64742-95-6

Fraction by Wt: 1.3920%

Other REC Limits:100 PPM=MFR'S LIMIT

Ingred Name: BUTYL ACETATE (SARA III)

CAS:123-86-4

RTECS #:AF7350000 Fraction by Wt: 1.1630%

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:0.00

5 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: 22.0470%

OSHA PEL:50 PPM ACGIH TLV:50 PPM

Ingred Name: VM&P NAPHTHA

CAS:64742-89-8

Fracti

on by Wt: 4.6700% OSHA PEL:300 PPM ACGIH TLV:300 PPM

Ingred Name: CHROME III, ZINC AND COBALT COMPOUND (CONTAINS 45% CHROME

III; 20% ZINC; 15% COBALT)

Fraction by Wt: 3.8820%

OSHA PEL:.5MGM3CR(III);.1(CO) ACGIH TLV:.5MGM3CR(III);.02 CO

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.SKI

N: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 BREAT
H/REDUCED LUNG

FUNCTION/BREATHING OBS TRUCTION.*CONTINUED UNDER SIGNS/SYMPTOMS Explanation of Carcinogenicity:CARCINOGENIC CHROMIUM/CHROMIUM COMPOUNDS & COBALT COMPOUNDS INHUMANS/ANIMALS:HEXAVALENT.THIS PRODUCT CONTAINS TRIVALENT CHROMIUM COMPOUND.IARCH LISTS CRYSTALINE SILICA:GROUP 1,CARCENOGENIC TO HUMANS.N TP LISTS CRYSTALINE SILICA:REASONABLY ANTICIPATED TO BE CARCINOGEN:MAY CAUSE LUNG INJURY IF RESP PRECAUTIONS NOT USED.

Effects of Overexposure: CONTINUED HEALTH HAZ:I

NHAL:POSSIBLE ASTHMA-LIKE

SYMPTOMS/ASTHMA ATTACK.POSSIBLE BRONCITIS/BRONCHIAL SPASM/PULMONARY EDEMA.THESE EFFECTS USUALLY REVERSABLE.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 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 & WASH 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.

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

Flash Point:=12.2C, 54.F

Autoignition Temp:=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/ELECTRI

CAL EQUIP/SPARKS/OPEN FLAMES.

Unusual Fire/Explosion Hazard:CLOSED CONTRS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR BURST WHEN CONTAM W/ H2O (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.

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

Spill Release Procedures:EVAC NON-E

SSENTIAL 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 CO

RP'S TERGITOL TMN-10(20%) & H2O(80%).

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

Handling and Storage Precautions: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 CON

NECTIONS 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, EITHE

R CHEMICAL CARTRIDGE

RESPIRATORS OR AIRLINE RESPIRATORS ARE REQUIRED.USE SAME PRECAUTIONS DURING MIXING OR WH ERE PAINT FUMES WOULD 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 C

ONTACT 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 SKIN EXEMA/SENSITIZATION SHOULD BE EXCLUDED FROM WORKING W/ISOCYANATES.

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

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

Vapor Pres:15

Vapor Density:4.800 Spec Gravity:1.2460 VOC Pounds/Gallon:419

Evaporation Rate & Particle (N-BU AC=1)

Solubility in Water: REACTS WITH WATER

Appearance and Od

or:OPAQUE LIQUID, SOLVENT ODOR Percent Volatiles by Volume:51.408

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

Stability 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
DEPRESSURI

ZATION.

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 ===========

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