

HENTZEN COATINGS INC -- 08605GUZ-GD 383 GREEN ZENTHANE, MIL-C-53039A --
8010-01-229-9561

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

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

MSDS Date:08/31/1995

FSC:8010

NIIN:01-229-9561

MSDS Number: CBTWB

=== Responsible Party ===

Company Name:HENTZEN COATINGS INC

Address:6937 W MILL ROAD

City:MILWAUKEE

State:WI

ZIP:53218-1225

Country:US

Info Phone Num:414-

353-4200 / FAX 414-353-0286

Emergency Phone Num:414-353-4200

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

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

Ingred Name:METHYL ISOAMYL KETONE SOLVENT

CAS:110-12-3

RTECS #:MP3850000

Fraction by Wt: 20.516%

Other REC Limits:NONE SPECIFIED

OSHA PEL:50 PPM

AC

GIH TLV:50 PPM

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%

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: 1.497%

Other REC Limits:100 PPM

= MFR'S

Ingred Name:BUTYL ACETATE SOLVENT

CAS:123-86-4

RTECS #:AF7350000

Fraction by Wt: 1.194%

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: 0.047%

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

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TECS #:DE3030000
Fraction by Wt: 4.795%
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: 4.875%
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: 3.497 LBS/GAL; 419.045 GRAMS/LITER
RTECS #:9999999VO
Other REC Limits:NONE SPECIFIED

Ingred Name:MAGNESIUM FERRITE PIGMENT
CAS:12068-86-9
Fraction by Wt:
1-5%
Other REC Limits:NUISANCE DUST
OSHA PEL:10 MG/M3
ACGIH TLV:15 MG/M3

Ingred Name:COBALT COMPOUNDS (AS CO)(SARA 313)
CAS:7440-48-4
RTECS #:GF8750000
Fraction by Wt: 0.429%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.05 MG/M3
ACGIH TLV:0.05 MG/M3

Ingred Name:TRIVALENT CHROME (INSULUBLE)(SARA 313)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 6.997%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.5 MG/M3
ACGIH TLV:0.5 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:OXIDE PORTION OF CHRO

ME OXIDE

CAS:1317-38-9

Fraction by Wt: 1-5%

Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:CHRONIC: OVEREXPO TO SOLVENTS CAUSE PERMANENT BRAIN/NERVOUS SYSTEM/LIVER/KIDNEY DAMAGE. OVEREXPO TO ISOCYANATE LEADS TO RESPIRATORY SENSITIZATION CHARACTERIZED BY ALLERGIC DERMATITIS WHICH INCLUDES

RA SH, ITCHING, HIVES, SWELLING.

INGEST: IRRIT/CORROSIVE TO MOUTH/STOMAH TISSUE/DIGEST TRACT/SORE THROAT** TRIVALENT ****

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

Effects of Overexposure:SKIN/EYE/RESP TRACT IRRIT (NOSE/THROAT/LUNGS). WATERING EYES/DRY THROAT/COUGHING/HEADACHE/TIGHT CHEST/BURNING SENSATION. SOLVENTS EXPOSURE MAY CAUSE HEADACHE/DIZZINESS/NAUSEA. SHORTNESS OF BREATH. EXP OSURE

>LIMITS MAY LEAD TO

BRONCHITIS/BRONCHIAL SPASM/PULMINARY EDEMA. CHEM/HYPERSENSITIVE PNEUMONITIS W/FLU-LIKE SYMPTOM

Medical Cond Aggravated by Exposure:SKIN ALLERGIES AND EXEMA, ASTHMA & OTHER RESPIRATORY AILMENTS, CHEMICAL SENSITIZATION. **** CHROME EXPOSURE MAY CAUSE DELAYED RESP SYSTEM EFFECTS/DERMATITIS

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

First Aid:INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. CONSULT DR. EYES: FLUSH IMMED W/LUKE W

ARM RUNNING WATER 15 MINUTES, LIFTING

EYELIDS. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAM CLOTHES/WASH BEFORE REUSE. USE SAFETY SHOWER AFTER REMOVINGCLOTHES. GET MEDICAL AID. LESSER EXPOSURE, CONTACT DR IF IRRITATION DEVELOPS/PERSISTS.

INGESTION: CALL DR IMMED. 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 SHOULD BE WORN. DURING A FIRE, IRRITATING & HIGHLY TOXIC GASES & SMOKE ARE PRESENT FROM THE DECOMPOSITION/COMBUSTION PRODUCTS.

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

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

Spill Release Procedures:EVACUATE NON-ESSENTIAL PERSONNEL. REMOVE IGNIT SOURCES (FLAMES/HOT SURFACES/ELECTRICAL/STATIC/SPARKS). VENTILATE AREA.AVOID BREATHING VAPORS. COVER W/INERT ABSORBENT.POUR DECONTAMINANT/ALLOW TO REACT >10 MIN.COLLECT IN OPEN CNTNR/ADD MORE DECONTAM***

Neutralizing Agent:3-8% CONCENTRAT AMMONIA/2% DETERGENT/90-95% H2O OR TERGITOL TNN-10 20%/WATER 80%

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

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