

HENTZEN COATINGS, INC. -- 383 BROWN ZENTHANE, MIL-C-53039A(ME) -- 8010-01-229-7543

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

Product ID:383 BROWN ZENTHANE, MIL-C-53039A(ME)

MSDS Date:06/12/1989

FSC:8010

NIIN:01-229-7543

MSDS Number: BHNGM

=== Responsible Party ===

Company Name:HENTZEN COATINGS, INC.

Address:6937 WEST MILL ROAD

Box:18642

City:MILWAUKEE,

State:WI

ZIP:53218

Country:US

Info Phone Num:414-353-4200

Emergency Phone Num:414-353-4200, NIGHT (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

CAGE:09225

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

Ingred Name:METHYL ISOAMYL KETONE

CAS:110-12-3

RTECS #:MP3850000

Fraction by Wt: 15-20%

OSHA PEL:100 PPM

ACGIH TLV:50 PPM; 9293

Ingred Name:SILICA, CRYSTALLINE - QUARTZ

CAS:14808-60-7

RTECS #:VV7330000

Fraction by Wt: 20-30%

OSHA PEL:SEE TA

BLE Z3  
ACGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:METHYL ISOBUTYL KETONE (SARA III)  
CAS:108-10-1  
RTECS #:SA9275000  
Fraction by Wt: 15.00%  
OSHA PEL:100 PPM/75 STEL  
ACGIH TLV:50 PPM/75 STEL; 9293  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:CHROMIUM (SARA III)  
CAS:7440-47-3  
RTECS #:GB4200000  
Fraction by Wt: 5.00%  
OSHA PEL:1 MG/M3  
ACGIH TLV:0.5 MG/M3; 9192  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:AROMATIC HYDROCARBON (E.G. HI SOL 15)  
CAS:64742-95-6  
Fraction by Wt: 1.0-5.0%

Ingred Name:N-BUTYL ACETATE (SARA III)  
CAS:123-86-4  
RTECS #:AF7350000  
Fraction by Wt: 1.0-5.0%  
OSHA PEL:150 PPM/200 STEL  
ACGIH TLV:150 PPM/200STEL;9192  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:1,6-DIISOCYANATOHXANE (HEXAMETHYLENE DIISOCYANATE)  
CAS:822-06-0  
RTECS #:MO1740000  
Fraction by Wt: .05%  
ACGIH TLV:0.005 PPM; 9192  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:HOMOPOLYMER OF HDI  
CAS:28182-81-2  
RTECS #:NQ9170000  
Fraction by Wt: 20-30%

===== Hazards Identificati

on =====

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

Reports of Carcinogenicity:NTP:UNKNOWN IARC:YES

Health Hazards Acute and Chronic:RESPIRATORY SENSITIZ CHAR:

ASTHMAS-LIKE SYMPTOMS &/OR SKIN SENSITIZ CHAR: ALLERGIC DERMATITIS  
INCLUDE RASH, ITCH, HIVES, SWELLING OF EXTREME. PERMANENT BRAIN &  
NERV SYS DAMAGE, LIVER, KIDNEY DAMAGE. I F RESPIRATORY PROTECTION  
IS NOT USED MAYCAUSE LUNG INJURY.

Explanation of Carcinogenicity:IARC HAS LISTED SILICA AS A

"PROBABLE

HUMAN CARCINOGEN"

Effects of Overexposure:CAN CAUSE IRRI TO SKIN, EYES, & RESPIRATORY

TRACT (NOSE, THROAT, LUNGS), SYMPTOMMAY BE EYES WATERING, DRYNESS  
OF THROAT, COUGHING, HEADACHE, TIGHTNESS IN CHEST OR BURNING  
SENSATION. HEADACHE, DIZZ OR NAUSEA MAY BE EXPERIENCED BY SOME AS  
A RESULT OF EXPOSURE TO SOLVENTS

Medical Cond Aggravated by Exposure:ASTHMA & OTHER RESPIRATORY

AILMENTS, CHEMCIAL SEN-SITIZATION

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

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First Aid:INHALE: REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP  
WARM/QUIET. NOTIFY PHYSIC-IAN. EYES: FLUSH IMMED W/LARGE AMOUNT OF  
RUNNING WATER AT LEAST 15 MIN. TAKE TO PHYSICIAN. SKIN: WASH  
AFFECTED AREAS W/S OAP & WATER. REMOVE CONTAM CLOTHING.CONSULT  
PHYSICIAN. INGESTION: CALL A PHYSICIAN IMMEDIATELY.

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

Flash Point Method:TCC

Flash Point:60 F/15.56 C

Lower Limits:1.0

Extinguishing Media:FOAM,

CO2, DRY CHEMICAL

Fire Fighting Procedures:FULL PROTECTIVE EQUIP W/SELF CONTAINED BREATH  
APPARATUS SHOULD BE WORN. IRRI ANDHIGHLY TOXIC GASES & SMOKE ARE  
PRESENT FROM DECOMP/COMBUSTION PRODUCTS

Unusual Fire/Explosion Hazard:KEEP CONT TIGHTLY CLOSED. ISOLATE FROM  
HEAT, SPARK, OPEN FLAME, CONT MAY EXPLODEFROM EXTREME HEAT/BURST  
WHEN CONTAM W/WATER(CO2 EVOLVED). NEVER WELD, CUT, ETC.

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

Spill Release Procedures:EVACU

ATE NON-ESSENTIAL PERSONS. REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA. AVOID BREATHING VAPOR. COVER SPILL WITH INERT ABSORBENT. POUR LIQ DECONTAM OVER SPILL-ALLOW TO REACT 10 MIN; COLLECT OPEN CONT. ADD MORE DECONTAM SOLUTION. REMOVE TO SAFE PLACE

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

Handling and Storage Precautions: DO NOT STORE ABOVE 120 F OR BELOW 32 F. STORE LG AMTS IN BLDG DESIGN TO COMPLY W/OSHA. KEEP AWAY FROM SPARKS & OPEN FLAME. KEEP TIGHTLY CLOSED.

Other Precautions: KEEP AWAY FROM MOISTURE, IF ENTERS, PRESSURE CAN BUILD UP DUE TO REACTION PRODUCING CO<sub>2</sub> WHICH CAN CAUSE SEALED CONTAINER TO PRESSURIZED & BURST. DO NOT RESEAL IF CONTAM SUSPECTED. DO NOT TAKE INTERNALLY. GROUND CONTAINER WHEN POURING.

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

Respiratory Protection: SURGEON GENERAL REQUIRES AIRLINE RESPIRATORS UNLESS AIR SAMPLING SHOWS EXPOSURE TO BE BELOW OSHA LIMITS. THEN, EITHER

A CHEM CARTRIDGE RESPIRATOR OR AIRLINE RESPIRATOR REQUIRED. ALSO USE DURING MIXING OR ANY OPERATIONS WHERE PAINT FUMES PRESENT

Ventilation: GENERAL OR LOCAL EXHAUST IN VOL/PATTERN KEEP AIR CONTAM BELOW CURRENT APPLICABLE SAFETY & HEALTH REQUIREMENTS

Protective Gloves: CHEMICAL RESISTANT GLOVES

Eye Protection: SAFETY EYEWEAR/SPLASH GUARDS/SIDE SHIELD

Other Protective Equipment: COVER AS MUCH EXPOSED SKIN AREA AS POSSIBLE WITH APPROPRIATE CLOTHING. USE SKIN CREAMS FOR PROTECTION ONLY MINIMUM.

Work Hygienic Practices: WASH HANDS BEFORE EATING OR SMOKING. SMOKE IN SMOKING AREAS ONLY.

Supplemental Safety and Health

AVOID FREE FALL OF LIQUID IN EXCESS OF A FEW INCHES. USE ADEQUATE VENTILATION & RESPIRATORY EQUIPMENT. EMPTIED CONTAINERS MAY RETAIN HAZARDOUS RESIDUE OR EXPLOSIVE VAPORS. FOLLOW ALL PRECAUTIONS IN THIS DATA SHEET UNTIL CONTAINER IS THOROUGHLY CLEANED OR DESTROYED.

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

HCC: F2

Boiling Pt: B.

P. Text:232-350 F  
Vapor Pres:15.00  
Vapor Density:> AIR  
pH:NA  
Evaporation Rate & Reference:FASTER THAN BUTYL ACETATE  
Solubility in Water:REACTS WITH WATER  
Appearance and Odor:OPAQUE LIQUID, SOLVENT ODOR  
Percent Volatiles by Volume:51.57

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

Stability Indicator/Materials to Avoid:YES  
WATER, ALCOHOL, GLYCOL ETHERS, AMINES  
Stability Condition to Avoid:WATER CONTAMINATION  
Hazardous Decomposition Products:CO<sub>2</sub>, CO, OXIDES OF NITROGEN  
, TRACES OF  
HYDROGEN CYANIDE, HEXAMETHYLENE DIISOCYANATE

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE W/LOCAL, STATE &  
FEDERAL ENVIR CONTROL REG. DECONTAM CONTAINER PRIOR TO DISPOSAL.  
(DECONTAM SOLUTION:0-10% AMMONIUM HYDROXIDE2-5% DETERGENT, &  
BALANCE IS WTR; OR SOLUTION OF UNION CARBIDE'S TERGITOL  
TMN-10(20%) WATER (80%)

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