

HENTZEN COATINGS INC

-- 04667AUX-3

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MSDS Safety Information
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FSC: 8010
NIIN: 01-465-9667
MSDS Date: 01/31/2000
MSDS Num: CKDLL
Product ID: 04667AUX-3
MFN: 01
Responsible Party
Cage: 09225
Name: HENTZEN COATINGS INC
Address: 6937 WEST MILL ROAD
Box: 18749
City: MILWAUKEE WI 53218
Info Phone Number: 414-353-4200
Emergency Phone Number: 414-353-4200
Resp. Party Other MSDS No.: 36173 GREY ZENTHANE PLUS
Chemtrec IND/Phone: (800)424-9300
Published: Y

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Contractor Summary
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Cage: 09225
Name: HENTZEN COATINGS INC
Address: 6937 WEST MILL ROAD
Box: 18749
City: MILWAUKEE WI 53218
Phone: 414-353-4200

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Item Description Information
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Item Manager: GSA
Item Name: POLYURETHANE COATING
Specification Number: MIL-PRF-85285C
Type/Grade/Class: TYPE 1
Unit of Issue: KT

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Ingredients
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Cas: 1333-86-4
RTECS #: FF5800000
Name: CARBON BLACK
Percent by Wt: .35
OSHA PEL: 3.5 MG/M3
ACGIH TLV: 3.5 MG/M3
ACGIH STEL: NOT ESTABLISHED

Cas: 28182-81-2
RTECS #: NQ9170000
Name: HEXAMETHYLENE DIISOCYANATE HOMOPOLYMER
% low Wt: 30.
% high Wt: 40.
Other REC Limits: MFR'S TWA 0.5 MG/M3

Cas: 14808-60-7

RTECS #: VV7330000
Name: QUARTZ (SIO2), CRYSTALLINE SILICA
% low Wt: 15.
% high Wt: 20.
OSHA PEL: 0.1 MG/M3
ACGIH TLV: 0.1 MG/M3
ACGIH STEL: NOT ESTABLISHED

Cas: 13463-67-7
RTECS #: XR2275000
Name: TITANIUM DIOXIDE
% low Wt: 5.
% high Wt: 10.
OSHA PEL: 15 MG/M3
ACGIH TLV: 10 MG/M3
ACGIH STEL: NOT ESTABLISHED

Cas: 822-06-0
RTECS #: MO1740000
Name: 1,6-HEXAMETHYLENE DIISOCYANATE MONOMER
Percent by Wt: .04
OSHA PEL: .005 PPM
ACGIH TLV: 0.034 MG/M3;.005 PPM
ACGIH STEL: NOT ESTABLISHED
EPA Rpt Qty: 1 LB
DOT Rpt Qty: 1 LB

Cas: 110-43-0
RTECS #: MJ5075000
Name: METHYL AMYL KETONE
% low Wt: 20.
% high Wt: 30.
OSHA PEL: 465 MG/M3;100 PPM
ACGIH TLV: 233 MG/M3;50 PPM
ACGIH STEL: NOT ESTABLISHED

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Health Hazards Data
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Route Of Entry Inds - Inhalation: YES
Skin: YES
Ingestion: YES
Carcinogenicity Inds - NTP: YES
IARC: YES
OSHA: YES

Effects of Exposure: ACUTE: EYE- IRRITATION, MAY CAUSE CORNEAL DAMAGE. SKIN- IRRITATION, DEFATTING, SKIN SENSITIZATION IN SOME INDIVIDUALS. INGESTION: IRRITATION, POSSIBLE CORROSIVE ACTION TO GI TRACT, ASPIRATION HAZARD, MAY LEAD TO CHEMICAL PNEUMONITIS. CHRONI C:PERMANENT BRIN AND NERVOUS SYSTEM DAMAGE, LIVER AND KIDNEY DAMAGE, DERMATITIS. CERTAIN INDIVIDUALS WILL DEVELOP ISOCANATE SENSITIZATION (CHEMICAL ASTHMA).

Explanation Of Carcinogenicity: THIS PRODUCT HAS NOT BEEN TESTED AS A WHOLE FOR CARCINOGENICITY. IARC HAS LISTED CRYSTALLINE SILICA AS GROUP 1 CARCINOGENIC TO HUMANS. NTP CLASSIFIES RESPIRABLE SILICA AS CLASS 2. CARBON BLACK GP 2B(IARC).

Signs And Symptoms Of Overexposure: EYE: IRRITATION, REDNESS, BLURRED VISION.SYMPTOMS OF SKIN IRRITATION MAY INCLUDE REDDENING, RASH SWELLING, SCALING OR BLISTERING, DEFATTING, EXPOSURE TO SOLVENTS WITH PERMANENT BRAIN

AND NERVOUS SYSTEM DAMAGE, LIVER AND KIDNEY DAMAGE. ISOC ANATE SENSITIZATION (CHEMICAL ASTHMA), SYMPTOMS COULD BE IMMEDIATE OR DELAYED UP TO SEVERAL HOURS AFTER EXPOSURE AND COULD INCLUDE CHEST TIGHTNESS, WHEEZING, COUGH OR ASTHMATIC ATTACK. INGESTION: ABDOMINAL PAIN, NAUSEA, VOMITING, DIARRHEA. Medical Cond Aggravated By Exposure: ASTHMA AND OTHER RESPIRATORY AILMENTS; SKIN ALLERGIES AND ECZEMA; CHEMICAL SENSITIZATION. First Aid: EYES: FLUSH IMMEDIATELY WITH LOW PRESSURE LUKEWARM RUNNING WATER FOR AT LEAST 15 MINUTES WHILE LIFTING EYELIDS. GET MEDICAL HELP. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING IMMEDIATELY. WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. WASH CONTAMINATED CLOTHING THOROUGHLY BEFORE REUSE. FOR SEVERE EXPOSURE, GET UNDER SAFETY SHOWER AFTER REMOVING CLOTHING, THEN GET MEDICAL ATTENTION. FOR LESSER EXPOSURES, SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

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Handling and Disposal
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Spill Release Procedures: EVACUATE ALL NON-ESSENTIAL PERSONNEL AND REMOVE ALL SOURCES OF IGNITION (FLAMES, HOT SURFACES, ELECTRICAL, STATIC AND FRICTIONAL SPARKS). VENTILATE AREA, EQUIP CLEAN UP CREW WITH APPROPRIATE PROTECTIVE EQUIPMENT. AVOID BREATHING VAPORS. AVOID SKIN CONTACT. PREVENT ENTRY INTO DRAINS, SEWERS AND WATERWAYS. NOTIFY APPROPRIATE AUTHORITIES IF NECESSARY. Neutralizing Agent: AMMONIA SOLUTION (3-8%), DETERGENT (2%) & WATER (90-95%) OR A SOLUTION OF UNION CARBIDE'S TERGITOL TMN-10 (20%). Waste Disposal Methods: RECYCLE, FUEL BLEND OR INCINERATE. DISPOSE OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. IT IS THE RESPONSIBILITY OF THE OWNER OF THE WASTE TO DISPOSE OF IT PROPERLY. LABORATORY ANALYSIS IS RECOMMENDED TO PROFILE THE WASTE FOR PROPER DISPOSAL DETERMINATION. Handling And Storage Precautions: PRECAUTION MUST BE TAKEN SO THAT PERSONS HANDLING THIS PRODUCT DO NOT BREATHE THE VAPORS OR HAVE IT CONTACT THE EYES OR SKIN. IN SPRAY OPERATIONS, PROTECTION MUST BE AFFORDED AGAINST EXPOSURE TO BOTH VAPOR AND SPRAY MIST.

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Fire and Explosion Hazard Information
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Flash Point Method: TCC
Flash Point: =38.9C, 102.F
Lower Limits: 1.1
Extinguishing Media: CARBON DIOXIDE, DRY CHEMICAL, FOAM OR ALCOHOL FOAM. Fire Fighting Procedures: FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN. DURING A FIRE, IRRITATING AND HIGHLY TOXIC GASES (SEE REACTIVITY DATA) AND SMOKE ARE PRESENT FROM THE DECOMPOSITION/COMBUSTION PRODUCTS. Unusual Fire/Explosion Hazard: CLOSED CONTAINER MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR BURST WHEN CONTAMINATED WITH WATER (CARBON DIOXIDE RELEASED). DO NOT APPLY TO HOT SURFACES. NEVER USE WELDING OR CUTTING TORCH ON OR NEAR PRODUCT CONTAINER (EVEN EMPTY) BECAUSE PRODUCT (EVEN RESIDUE) CAN IGNITE EXPLOSIVELY.

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Control Measures
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Respiratory Protection: THE SURGEON GENERAL REQUIRES AIRLINE RESPIRATORS TO BE USED UNLESS AIR SAMPLING SHOWS EXPOSURE TO BE BELOW OSHA LIMITS. THEN EITHER AIR-PURIFYING CHEMICAL CARTRIDGE RESPIRATORS OR AIRLINE RESPIRATORS ARE REQUIRED. AIR SAMPLING SHOULD BE DONE TO MEASURE AIRBORNE

CONCENTRATIONS OF MONOMER & POLYMER HDI & ORGANIC SOLVENTS.

Ventilation: DURING THE SPRAY APPLICATION OF THESE COATINGS, THE USE OF A SUPPLIED-AIR RESPIRATOR (EITHER POSITIVE PRESSURE OR CONTINUOUS FLOW TYPE) IS MANDATORY

Protective Gloves: PERMEATION RESISTANT GLOVES.

Eye Protection: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS

Other Protective Equipment: A FULL FACE SHIELD MAY BE APPROPRIATE. CONTACT LENSES SHOULD NOT BE WORN. IF SKIN CREAMS ARE USED, KEEP THE AREA PROTECTED ONLY BY THE CREAM TO A MINIMUM.

Work Hygienic Practices: SAFETY SHOWERS AND EYE WASH STATIONS SHOULD BE AVAILABLE. EDUCATE AND TRAIN EMPLOYEES IN THE SAFE USE OF THE PRODUCT.

Supplemental Safety and Health: MEDICAL SUPERVISION OF ALL EMPLOYEES WHO HANDLE OR COME IN CONTACT WITH THIS PRODUCT IS RECOMMENDED. THIS SHOULD INCLUDE PRE-EMPLOYMENT AND PERIODIC MEDICAL EXAMINATIONS WITH RESPIRATORY FUNCTION TESTS (FEV, FVC AS A MINIMUM). PERSONS WITH ASTHMA-TYPE CONDITIONS, BRONCHITIS, OTHER CHRONIC RESPIRATORY DISEASES

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Physical/Chemical Properties
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HCC: F4
B.P. Text: 295.0F-305.0F
Vapor Pres: 2.14
Vapor Density: 3.94
Spec Gravity: 1.217
VOC Pounds/Gallon: 3.
VOC Grams/Liter: 360
Evaporation Rate & Reference: .400 (N-BUTYL ACETATE=1)
Solubility in Water: REACTS WITH WATER
Appearance and Odor: OPAQUE LIQUID, SOLVENT ODOR
Percent Volatiles by Volume: 20-30

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Reactivity Data
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Stability Indicator: YES
Materials To Avoid: CONTAMINATION WITH WATER, EPOXY CATALYSTS, ALCOHOLS, GLYCOL ETHERS, BASES, METAL COMPLEXES OR OTHER ACTIVE MATERIALS.
Hazardous Decomposition Products: MAY PRODUCE HAZARDOUS FUMES WHEN HEATED TO DECOMPOSITION AS IN WELDING. FUMES MAY CONTAIN THE FOLLOWING CARBON MONOXIDE, CARBON DIOXIDE, CHLORINE, HYDROGEN CHLORIDE AND POSSIBLE CYANIDE, & HDI.
Hazardous Polymerization Indicator: NO

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Toxicological Information
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Ecological Information
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MSDS Transport Information
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Transport Information: PSN: PAINT,3,UN1263,III. LABEL: FLAMMABLE LIQUID.
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Regulatory Information
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Sara Title III Information: HEXAMETHYLENE DIISOCYANATE MONOMER (CAS 822-06-0) (% BY WT= 0.045) IS SUBJECT TO THE REPORTING REQUIREMENT OF SEC 313 (40 CFR 372).

Federal Regulatory Information: THE INGREDIENTS OF THIS PRODUCT ARE ON THE TSCA INVENTORY.

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Other Information
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Other Information: WMIS INFORMATION: HEALTH =2; FLAMMABILITY= 3; REACTIVITY= 1,REQUIRES PERSONAL PROTECTION. THIS IS PART A OF A TWO PART KIT. FOR PART B SEE MSDS SERIAL #CKDMC.

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Transportation Information
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Responsible Party Cage: 09225
Trans ID NO: 151831
Product ID: 04667AUX-3
MSDS Prepared Date: 01/31/2000
Review Date: 03/08/2000
MFN: 1
Tech Entry NOS Shipping Nm: CONTAINS HEXAMETHYLENE DIISOCYANATE AND METHYL AMYLKETONE.
Multiple KIT Number: 0
Unit Of Issue: KT
Additional Data: PSN PER MSDS. THIS ITEM IS A TWO PART KIT. PSN IS SAME FOR BOTH PARTS. SEE MFN 2 FOR PART B. FOR PART B SEE MSDS SERIAL #CKDMC.

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Detail DOT Information
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DOT PSN Code: LFE
DOT Proper Shipping Name: PAINT
DOT PSN Modifier: INCLUDING PAINT, LACQUER, ENAMEL, STAIN, SHELLAC SOLUTIONS, VARNISH, POLISH, LIQUID FILLER, AND LIQUID LACQUER BASE
Hazard Class: 3
UN ID Num: UN1263
DOT Packaging Group: III
Label: FLAMMABLE LIQUID
Special Provision: B1,B52,T7,T30
Non Bulk Pack: 173
Bulk Pack: 242
Max Qty Pass: 60 L
Max Qty Cargo: 220 L
Vessel Stow Req: E,B,A

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Detail IMO Information
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IMO PSN Code: LCT
IMO Proper Shipping Name: PAINT OR PAINT RELATED MATERIAL
IMO PSN Modifier: (INCLUDING PAINT, LACQUER, ENAMEL, STAIN, SHELLAC SOLUTIONS, VARNISH, POLISH, LIQUID FILLER AND LIQUID LACQUER BASE) OR (INCLUDING PAINT THINNING OR REDUCING COMPOUND) o
IMDG Page Number: 3372
UN Number: 1263
UN Hazard Class: 3.3
IMO Packaging Group: III
Subsidiary Risk Label: -
EMS Number: 3-05
MED First Aid Guide NUM: 310
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Detail IATA Information

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IATA PSN Code: SXH
IATA UN ID Num: 1263
IATA Proper Shipping Name: PAINT
IATA PSN Modifier: (INCLUDING PAINT, LACQUER, ENAMEL, STAIN, SHELLAC,
VARNISH,
POLISH, LIQUID FILLER AND LIQUID LACQUER BASE)
IATA UN Class: 3
IATA Label: FLAMMABLE LIQUID
UN Packing Group: III
Packing Note Passenger: 309
Max Quant Pass: 60L
Max Quant Cargo: 220L
Packaging Note Cargo: 310
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Detail AFI Information

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AFI PSN Code: SXH
AFI Proper Shipping Name: PAINT OR PAINT RELATED MATERIAL
AFI PSN Modifier: (INCLUDING PAINT, LACQUER, ENAMEL, STAIN, SHELLAC
SOLUTIONS,
VARNISH, POLISH, LIQUID FILLER AND LIQUID LACQUER BASE) OR (INCLUDIN PAINT
THINNING OR REDUCING COMPOUNDS)
AFI Hazard Class: 3
AFI UN ID NUM: UN1263
AFI Packing Group: III
Special Provisions: P5
Back Pack Reference: A7.3
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HAZCOM Label

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Product ID: 04667AUX-3
Cage: 09225
Company Name: HENTZEN COATINGS INC
Street: 6937 WEST MILL ROAD
PO Box: 18749
City: MILWAUKEE WI
Zipcode: 53218
Health Emergency Phone: 414-353-4200
Label Required IND: Y
Date Of Label Review: 03/08/2000
Status Code: A
Origination Code: F
Chronic Hazard IND: Y
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: WARNING
Respiratory Protection IND: YES
Health Hazard: Moderate
Contact Hazard: Moderate
Fire Hazard: Moderate
Reactivity Hazard: None
Hazard And Precautions: FLAMMABLE LIQUID ! KEEP AWAY FROM HEAT, SPARKS &
FLAMES. VAPORS MAY CAUSE FLASH FIRE. HARMFUL IF INHALED. MAY CAUSE
IRRITATION OF EYES, SKIN, NOSE, THROAT & RESPIRATORY TRACT. MAY CAUSE LUNG
DAMAGE,LUNG & SKIN ALLERGIC REACTIONS. FIRST AI D- EYES: FLUSHWITH
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LUKEWARM RUNNING WATER FOR AT LEAST 15 MINUTES WHILE LIFTING EYELIDS GET MEDICAL HELP. SKIN: REMOVE CONTAMINATED CLOTHING, WASH WITH SOAP AND WATER. WASH CONTAMINATED CLOTHING BEFORE REUSE. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

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