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HENTZEN COATINGS INC -- POLYURETHANE COATING, 37925 UNTINTED PART 1 -- 8010-01-441-6114

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

Product ID:POLYURETHANE COATING, 37925 UNTINTED PART 1

MSDS Date:08/09/2000

FSC:8010

NIIN:01-441-6114 Status Code:A

Kit Part:Y

MSDS Number: CLLDS === Responsible Party ===

Company Name: HENTZEN COATINGS INC

Address:6937 WEST MILL ROAD

Box:18749

City:MILWAUKEE

State:WI ZIP:5321

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Country:US

Info Phone Num:414-353-4200

Emergency Phone Num:800-424-9300 Preparer's Name:ERNEST CARTER 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

CAGE:09225

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

Ingred Name: HEXAMETHYLENE DIISOCYANATE HOMOPOLYMER

CAS:28182-81-2 RTECS #:NQ9170000 Minumum % Wt:30. Maxumum % Wt:40.

Ingred Name:TITANIUM DIOXIDE

CAS:13463-67-7 RTECS #:XR2275000 Minumum % Wt:30. Maxumum % Wt:40. OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name: METHYL PROPYL KETONE

CAS:107-87-9

RTECS #:SA7875000

= Wt:14.41

OSHA PEL:700 MG/M3;200 PPM ACGIH TLV:705 MG/M3;200 PPM ACGIH STEL:881 MG/M3;250 PPM

Ingred Name: HEXAMETHYLENE DIISOCYANATE

CAS:822-06-0

RTECS #:MO1740000

= Wt:.11

ACGIH TLV:0.034 MG/M3;.005 PPM

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:1,2,4-TRIMETHYLBENZENE

CAS:95-63-6

RTECS #:DC3325000

= Wt:2.96

Ingred Name: AROMATIC HYDROCARBONS

CAS:64742-95-6

Code:F

RTECS #:WF3400000

= Wt:6.22

Ingred Name: METHYL AMYL KETONE

CAS:110-43-0

RTECS #:MJ5075000

= Wt:4.67

OSHA PEL:465 MG/M3;100 PPM ACGIH TLV:233 MG/M3;50 PPM

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:CHRONIC EFFECTS: REPORTS HAVE
ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE

SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE, LIVER AND KIDNEY DAMAGE. AS A RESULT OF PREVIOUS REPEATED OVEREXPOSURES OR A SINGLE LARGE DOSE, CERTAIN INDIVIDUALS WILL DEVELOP ISOCYANATE SENSITIZATION (CHEMICAL ASTHMA) WHICH WILL CAUSE THEM TO REACT TO A LATER EXPOSURE TO ISOCYANATE AT LEVELS WE LL BELOW THE TLV. THESE SYMPTOMS COULD BE IMMEDIATE OR DELAYED UP TO SEVERAL HOURS AFTER EXPOSURE AND COULD INCLUDE CHEST TIGHTNESS, WHEEZING, COUGH OR AST

- HMATIC ATTACK. THERE ARE REPORTS THAT ONCE SENSITIZED, AN INDIVIDUAL CAN EXPERIENCE
- Explanation of Carcinogenicity:THIS PRODUCT HAS NOT BEEN TESTED AS A WHOLE FOR CARCINOGENICITY.
- Effects of Overexposure:EYE CONTACT:ACUTE EYE CONTACT WITH LIQUID, SKIN CONTACT:ISOCYANATES REACT WITH SKIN PROTEIN AND MOISTURE AND CAN CAUSE IRRITATION. INHALATION:ANESTHETIC.CAN CAUSE IRRITATION OF THE RESPIRATORY TRACT O R ACUTE NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY THE FOLLOWING PROG
- RESSIVE STEPS IF SEVERE OVEREXPOSURE IS CONTINUED:INGESTION: CAN RESULT IN IRRITATION AND POSSIBLE CORROSIVE ACTION IN THE MOUTH, S TOMACH TISSUE AND DIGESTIVE TRACT, SYMPTOMS CAN INCLUDE SORE THROAT, ABDOMINAL PAIN, NASEA, VOMITING AND DIARRHEA.
- Medical Cond Aggravated by Exposure: ASTHMA AND OTHER RESPIRATORY AILMENTS; SKIN ALLERGIES AND ECZEMA; CHEMICAL SENSITIZATION.

First Aid:EYE CONTACT:FLUSH IMMEDIAT ELY WITH LOW PRESSURE LUKEWARM

RUNNING WATER FOR AT LEAST 15 MINUTES WHILE LIFTING EYELIDS. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING IMMEDIATELY.WASH AFFECTED AREAS THOROUG HLY WITH SOAP AND WATER. INHALATION:MOVE TO AN AREA FREE FROM RISK OF FURTHER EXPOSURE. INGESTION: CALL A PHYSICIAN IMMEDIATELY. DO NOT INDUCE VOMITING.

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

Flash Point Method:CALC Lower Limits:9 Upper Limits:8.7 Extinguishing Media:CARBO N 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 AND SMOKE ARE PRESENT FROM THE DECOMPOSITION/ COMBUSTION PRODUCTS. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS, OPEN FLAMES.

Unusual Fire/Explosion Hazard:CLOSED CONTAINER MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR BURST WHEN CONT

AMINATED 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.

	Accidenta	l Release	Measures	
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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. COVER SPILL WITH INERT ABSORBENT.

Neutralizing Agent:DECON SOLUTION: CONCENTRATED AMMONIA (3-8%), DETERGENT (2%), WATER (90-95%)

=========== Handling and Storage	
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Handling and Storage Precautions: 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 S PRAY MIST. CAN CAUSE IRRITATION TO EYES, SKIN, NOSE, THROAT. AVOID CONTACT WITH EYES AND CLOTHING.

Other Precautions:USE GROUNDING AND BONDING CONNECTION WHEN TRANSFERRING MATERIAL TO PREVENT STATIC DISCHARGE, FIRE OR EXPLOSION. AVOID FREE FALL OF LIQUID IN EXCESS OF A FEW INCHES. USE SPARKPROOF TOOLS AND EXPLOSION PROOF EQUIPMENT.

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

Respiratory Protection: DURING SPRAY APPLICATION OF THESE COATINGS, USE OF SUPPLIED AIR RESPIRATOR MANDATORY WHEN AIRBORNE ISOCYANATE CONCENTRATION UNKNOWN OR EXCEEDS TEN TIMES THE EXPOSURE LIMITS. PROPERLY FITTING RESPIRAT OR IS REQUIRED WHEN AIRBORN CONCENTRATION OF ISOCYANATES < 10 TIMES EXPOSURE LIMIT.

Ventilation:SUFFICIENT TO KEEP THE AIRBORNE CONCENTRATION BELOW EXPOSURE LIMITS. EXHAUST AIR CLEANED BY S

CRUBBER OR FILTERS TO

REDUCE ENVIRON CONTAMINATION.

Protective Gloves:PERMEATION RESISTANT GLOVES,COVER AS MUCH OF THE EXPOSED SKIN AREA AS POSSIBLE

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

Other Protective Equipment:SAFETY SHOWERS AND EYE WASH STATIONS SHOULD BE AVAILABLE. EDUCATE AND TRAIN EMPLOYEES IN THE SAFE USE OF THIS

Supplemental Safety and Health

PRODUCT.

MEDICAL SURVEILLANCE OF ALL EMPLOYEES WHO HANDLE OR COME IN CONTACT WITH THIS PRODUCT. TH

IS INCLUDES PRE-EMPLOYMENT AND PERIODIC

MEDICAL EXAMINATION WITH RESPIRATORY FUNCTION TESTS. NO PERSONS
WITH ASTHMA TYPE CONDITIONS, BRONCHITIS, OTHER CHRONIC RESPIRATORY
DISEASES OR RECURRENT SKIN ECZEMA OR SENSITIZATION.

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

Boiling Pt:B.P. Text:213-418 F

Vapor Pres:27.80 Vapor Density:4.80 Spec Gravity:1.284 VOC Pounds/Gallon:393 VOC Grams/Liter:3.28

Evaporation Rate & Reference: 2.300 (N-BUTYL ACETATE=1)

Solu

bility in Water:REACTS WITH WATER Appearance and Odor:SOLVENT ODOR Percent Volatiles by Volume:47.3981

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

Stability Indicator/Materials to Avoid:NO

CONTAMINATION WITH WATER, EPOXY CATALYSTS, ALCOHOLS, GLYCOL ETHERS, BASES, METAL COMPLEXES OR OTHER ACTIVE MATERIALS.

Stability Condition to Avoid: SEE INCOMPATIBILITIES.

Hazardous Decomposition Products:MAY PRODUCE HAZARDOUS FUMES WHEN HEATED TO DECOMPOSITION AS IN WELDING. FU

FOLLOWING: CARBON MONOXIDE CARBON DIOXIDE, CHLORINE, HYDROGEN CHLORIDE, POSSIBLE CYANIDE, HEXAMETHYLENE DIISO Conditions to Avoid Polymerization:WILL NOT OCCUR
======== Disposal Considerations ===========
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.
========== MSDS Transport Information ====================================
Transport Information:DOT PROPER SHIPPING NAME: PAINT UN NUMBER: UN1263 DOT HAZARD CLASS:3 DOT LABEL: FLAMMABLE LIQUID DOT PACKAGING GROUP: PG 11 U.S. POSTAL SERVICE: WILL NOT HANDLE.
========= Regulatory Information ===========
State Regulatory Information:THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AN D OF 40 CFR 372:
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