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HENTZEN COATINGS INC -- 12197ORANGE GLOSS ZENTHANE PLUS MIL-PRF-85285C(I) 8010-01-441-6110

Product ID:12197ORANGE GLOSS ZENTHANE PLUS MIL-PRF-85285C(I) MSDS Date:09/23/1999 FSC:8010 NIIN:01-441-6110 Status Code:A MSDS Number: CLMYQ === Responsible Party === Company Name: HENTZEN COATINGS INC Address:6937 WEST MILL ROAD Box:18749 City:MILWAUKEE State:WI ZIP:532 18 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

Ingred Name:HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE CAS:28182-81-2 Code:F RTECS #:NQ9170000 Minum um % Wt:40. Maxumum % Wt:50.

Ingred Name:METHYL PROPYL KETONE CAS:107-87-9 RTECS #:SA7875000 Minumum % Wt:5. Maxumum % Wt:10. 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 &It; Wt:.06 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:7.2

Ingred Name:AROMATIC HYDROCARBONS CAS:64742-95-6 Code:F RTECS #:WF3400000 Minumum % Wt:15. Maxumum % Wt:20.

Ingred Name:METHOXYPROPANOL ACETATE CAS:108-65-6 Code:F RTECS #:AI8925000 Minumum % Wt:1. Maxumum % Wt:5.

Ingred Name:METHYL AMYL KETONE CAS:110-43-0 RTECS #:MJ5075000 Minumum % Wt:1. Maxumum % Wt:5. OSHA PEL:465 MG/M3;100 PPM ACGIH TLV:233 MG/M3;50 PPM

Health Hazards Acute and Chronic:HARMFUL IF INHALED. MAY CAUSE THE FOLLOWING EFFECTS: NOSE THROAT AND RESPIRATORY TRACT IRR

ITATION.

ALLERGIC RESPIRATORY REACTION. MAY CAUSE LUNG DAMAGE. EYE AND SKIN IRRITATION. ALLERGIC SKIN REACTIO N.

Explanation of Carcinogenicity:THIS PRODUCT HAS NOT BEEN TESTED AS A WHOLE FOR CARCINOGENICITY.

Effects of Overexposure: ACUTE EYE CONTACT WITH LIQUID, AEROSOLS AND VAPORS CAN BE IRRITATING CAUSING TEARING, REDDENING AND SWELLING ACCOMPANIED BY A STINGING AND/OR A FEELING LIKE THAT OF FINE DUST IN THE EYES. SKIN CONTACT : SYMPTOMS OF SKIN IRRITATION MAY BE

REDDENING, RASH, SWELLING, SCALING OR BLISTERING. INHALATION: CAN CAUSE IRRITATION OF THE RESPIRATORY TRACT OR ACUTE NERVOUS SYSTEM DEPRESSION CHARACTERIZED. INGES TION:SYMPTOMS CAN INCLUDE SORE THROAT, ABDOMINAL PAIN, NAUSEA, VOMITING AND DIARRHEA. CHRONIC AFFECTS CAN INCLUDE PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE, LIVER, AND KIDNEY DAMAGE. INDIVIDUALS CAN D EVELOP ISOCYANATE SENSITIZATION.

Medical Cond Aggravated by Exposure:ASTHMA AND OTHER RESPIRATORY AILMENTSA

; SKIN ALLERGIES AND ECZEMA; CHEMICAL SENSITIZATION.

First Aid:EYE CONTACT: FLUSH IMMEDIATELY WITH LOW PRESSURE LUKEWARM RUNNING WATER FOR AT LEAST 15 MINUTES WHILE LIFTING EYELIDS.TAKE TO A PHYSICIAN FOR TREATMENT.SKIN CONTACT:REMOVE CONTAMINATED CLOTHING IMMEDI ATELY. WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER.GET MEDICAL ATTENTION.INHALATION: MOVE TO AN AREA FREE FROM RISK OF FURTHER EXPOSURE.AD

MINISTER OXYGEN OR ARTIFICIAL

RESPIRATION AS NEEDED. OB TAIN MEDICAL ATTENTION. INGESTION: CALL A PHYSICIAN IMMEDIATELY. DO NOT INDUCE VOMITING.

Flash Point Method:TCC Flash Point:=7.8C, 46.F Lower Limits:.9 Upper Limits:8.7 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 AND SMOKE ARE PRESENT FROM THE DECOMPOSITION/COMBUSTION PRODUCTS. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAMES. 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 TORCH ON OR NEAR PRODUCT CONT AINER (EVEN EMPTY) BECAUSE PRODUCT (E

VEN RESIDUE) CAN IGNITE EXPLOSIVELY.

Spill Release Procedures:COVER SPILL WITH INERT ABSORBENT. POUR LIQUID DECONTAMINANT OVER SPILLAGE.ALLOW TO REACT FOR AT LEAST 10 MINUTES. COLLECT IN OPEN CONTAINERS AND ADD FURTHER AMOUNTS OF DECONTAMINATION SOLUTION. DO NOT ALLOW INTO DRAINS. EVACUATE ALL NON-ESSENTIAL PERSONNEL AND REMOVE ALL SOURCES OF IGNITION. EQUIP CLEAN UP CREW WITH APPROPRIATE PROTECTIVE EQUIPM ENT.

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. STORAGE: DO NOT STORE ABOVE 120 F OR BELOW 32 F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED TO COMPLY WITH OSHA?S 29 CFR 1910.106. USE GROUNDING OR BONDING CONNECTION WHEN TRANSFERRIN Other Precautions:AVOID FREE FALL OF LIQUID MORE THAN A FEW INCHES.

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

Respiratory Protection: THE SURGEON GENERAL REQUIRES AIRLINE RESPIRATORS TO BE USED UNLESS AIR SAMPLING SHOWS SEPOSURE TO BE BELOW OSHA LIMITS. THEN, EITHER AIR-PURIFYING CHEMICAL CARTRIDGE RESPIRATORS OR AIRLINE RESPIRATORS ARE REQUIRED. THE SAME PRECAUTIONS SHOULD BE USED DURING MIXING OR ANY OPERATIONS WHERE PAINT FUMES WOULD BE PRESENT.

Ventilation: EXHAUST VENTILATION SUFFICIENT TO KEEP THE AIRBORNE CONCE NTRATIONS OF THE ISOCYANATES BELOW THEIR RESPECTIVE EXPOSURE LIMITS MUST BE UTILIZED.

Protective Gloves: PERMEATION RESISTANT GLOVES.

Eye Protection: USE SAFETY EYEWEAR WITH SPLASH GUARDS OR SIDE SHIELDS. NO CONTACT LENSES.

Other Protective Equipment:SAFETY SHOWERS AND EYE WASH STATIONS SHOULD BE AVAILABLE.

Supplemental Safety and Health

MEDICAL SURVEILLANCE: PERSONS WITH ASTHMA-TYPE CONDITIONS, BRONCHITIS, OTHER CHRONIC RESPIRATORY DISEASES OR RECURRENT SKIN ECZEMA OR SENSITIZ

ATION SHOULD BE EXCLUDED FROM WORKING WITH ISOCYANATES.

Boiling Pt:B.P. Text:LO-213.0 HI-418.0 F Melt/Freeze Pt:M.P/F.P Text:NONE Decomp Temp:Decomp Text:NONE Vapor Pres:27.80 Vapor Density:4.80 Spec Gravity:1.026 VOC Pounds/Gallon:409 VOC Grams/Liter:3.41 Evaporation Rate & amp; Reference:2.300 Solubility in Water:REACTS WITH WATER Appearance and Odor:OPAQUE LIQUID SOLVENT ODOR Percent Volatiles by Volume:48.1955

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Stability Indicator/Materials to Avoid:YES

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: CARBON MONOXIDE, CARBON DIOXIDE, CHLORINE, HYDROGEN CHLORIDE, CYANIDE, HEXAMETHYLENE DIISOCYANATE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. RECYCLE, FUEL BLEND OR INCINERATE.

Transport Information: AS AN " ARTICLE" THIS PRODUCT IS EXCLUDED FROM ANY REQUIREMENTS OF THE STANDARD. THIS IMPLIES THAT BATTERY MEETS REQUIREMENTS OF REGULATIONS UNDER 49 CFR 173.159(D) AND REQUIRES THAT BATTERIES BE PROT ECTED AGA

INST SHORT CIRCUITS AND SECURELY PACKAGED AND THE BATTERY AND OUTER PACKAGING PLAINLY AND DURABLY MARKED "NONSPILLABLE" OR "NONSPILLABLE BATTERY". ALSO THE BATTERIES MUST BE CAPABLE OF WITHST ANDING, WITHOUT LEAKAGE OF BATTERY

FLUID, THE VIBRATION TEST AND THE PRESSURE DIFFERENTIAL TEST SPECIFIED IN 49 CFR 173.159(D)(3)(I) AND (I I).

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