

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

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

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: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:HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE

CAS:28182-81-2

Code:F

RTECS #:NQ9170000

Minumu

m % 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
< 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

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

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

TATION.

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

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. INGESTION: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 DEVELOP ISOCYANATE SENSITIZATION.

Medical Cond Aggravated by Exposure:ASTHMA AND OTHER RESPIRATORY ILLNESS; SKIN ALLERGIES AND ECZEMA; CHEMICAL SENSITIZATION.

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

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 IMMEDIATELY. WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER.GET MEDICAL ATTENTION.INHALATION: MOVE TO AN AREA FREE FROM RISK OF FURTHER EXPOSURE.ADMINISTER OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. OBTAIN MEDICAL ATTENTION. INGESTION: CALL A PHYSICIAN IMMEDIATELY. DO NOT INDUCE VOMITING.

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

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 CONTAINER (EVEN EMPTY) BECAUSE PRODUCT
(EV
EN RESIDUE) CAN IGNITE EXPLOSIVELY.

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

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 EQUIPME
NT.

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

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.

===== 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
CONCEN

TRATIONS 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
SENSITIZA

TION SHOULD BE EXCLUDED FROM WORKING WITH ISOCYANATES.

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

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 & 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 and Reactivity Data =====

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

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

===== MSDS Transport Information =====

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 PROTECTED AGAINST 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 WITHSTANDING , 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).

===== Other Information =====

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