

HENTZEN COATINGS INC -- 16440 GRAY ZENTHANE PLUS, MIL-PRF-85285C, TYPE I --
8010-01-285-3046

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

Product ID:16440 GRAY ZENTHANE PLUS, MIL-PRF-85285C, TYPE I

MSDS Date:08/31/1998

FSC:8010

NIIN:01-285-3046

Status Code:A

MSDS Number: CLKNG

=== Responsible Party ===

Company Name:HENTZEN COATINGS INC

Address:6937 WEST MILL ROAD

Box:18749

City:MILWAUKEE

State:WI

ZIP:53218

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:CARBON BLACK

CAS:1333-86-4

RTECS #:FF5800000

= Wt:.12

OSHA PEL:3.5 MG/M3

ACGIH TLV:3.5 MG/

M3

Ingred Name:HOMOPOLMER OF HEXAMETHYLENE DIISOCYANATE

CAS:28182-81-2

Code:F

RTECS #:NQ9170000

Minumum % Wt:20.

Maxumum % Wt:30.

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

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:.07

ACGIH TLV:0.034 MG/M3;.005 PPM

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:XYLENE

CAS:1330-20-7

RTECS #:ZE2100000

= Wt:1.27

OSHA PEL:100 PPM

ACGIH TLV:434 MG/M3;100 PPM

ACGIH STEL:651 MG/M3;150 PPM

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:1,2,4-TRIMETHYLBENZENE

CAS:95-63-6

RTECS #:DC3325000

< Wt:0.

OSHA PEL:25 PPM

Ingred Name:AROMATIC HYDROCARBONS

CAS:64742-95-6

Code:F

RTECS #:WF3400000

Minumum % Wt:10.

Maxumum % Wt:15.

Ingred Name:METHYL AMYL KET

ONE
CAS:110-43-0
RTECS #:MJ5075000
Minumum % Wt:5.
Maxumum % Wt:10.
OSHA PEL:465 MG/M3;100 PPM
ACGIH TLV:233 MG/M3;50 PPM

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

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:HARMFUL IF INHALED. MAY CAUSE THE
FOLLOWING EFFECTS: NOSE, THROAT AND RESPIRATORY TRACT, IRRITATION.
ALLERGIC RESPIRATORY REACTION. MAY CAUSE LUNG DAMAGE. EYE AND SKIN
IRRITATION. ALLERGIC SKIN REACTI ON.

Explanation of Carcinogenicity:THIS PRODUCT HAS NOT BEEN TESTED AS A
WHOLE FOR CARCINOGENICITY. CONTAINS CARBON BLACK WHICH HAS BEEN
LISTED BY IARC AS A POSSIBLE HUMAN CARCINOGEN (GROUP 2B) BASED UPON
LABORATORY ANIMAL INHALATION S TUDIES.

Effects of Overexposure:EYE CONTACT: WITH LIQUID VAPORS CAUSING
TEARING, REDDENING AND SWELLING ACCOMPANIED BY A STINGING. SKIN
CONTACT: SYMPTOMS MAY BE REDDENING, RASH, SWELLING, SCALING OR
BLISTERING. INHALATION: STEPS IF SEVERE OVE
REXPOSURE IS CONTINUED:
HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION OR UNCONSCIOUSNESS.
INGESTION: CAN RESULT IN CORROSIVE ACTION IN THE MOUTH, STOMACH
TISSUE AND DIGESTIVE TRACT

Medical Cond Aggravated by Exposure:ASTHMA AND OTHER RESPIRATORY
AILMENTS; SKIN ALLERGIES AND ECZEMA.

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

First Aid:EYE CONTACT: FLUSH WITH LOW PRESSURE LUKE WARM RUNNING WATER
FOR AT LEAST 15 MINUTES. SKIN CONTACT: WASH AFFECTED
AREAS
THOROUGHLY WITH SOAP AND WATER. INMHALATION: MOVE TO AN AREA FREE
FROM RISK OF FURTHER EXPOSURE. INGESTION: CALL A PHYSICIAN
IMMEDIATELY.

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

Flash Point Method:CALC
Flash Point:=7.8C, 46.F
Autoignition Temp:Autoignition Temp Text:NONE
Lower Limits:.90
Upper Limits:8.70
Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, FOAM OR ALCOHOL FOAM.
Fire Fighting Procedures:FULL PROTECTIVE EQUIPMENT INCLUDING SELF

CONTAINED BREATHING APPARATUS SHOULD BE WORN.

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

Spill Release Procedures:COLLECT MATERIAL IN OPEN CONTAINERS ADD FURTHER AMOUNTS OF DECONTAMINATION SOLUTION.

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

Handling and Storage Precautions:PRECAUTIONS MUST BE TAKEN SO THAT PERSONS HANDLING THIS PRODUCT DO NOT BREATHE THE VAPORS OR HAVE IT CONTACT THE EYES OR SKIN. STORAGE: KEEP CONTAINERS TIGHTLY CLOSED AND PROTECT FROM MOISTURE CONTAMINATION.

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

Respiratory Protection:AIR-PURIFYING CHEMICAL CARTRIDGE RESPIRATORS.
Ventilation:EXHAUST VENTILATION.
Protective Gloves:PERMEATION RESISTANT GLOVES.
Eye Protection:SPLASH GUARDS OR SIDE SHIELDS. A FULL FACE SHIELD MAY BE APPROPRIATE.
Other Protective Equipment:SAFETY SHOWERS AND EYE WASH STATIONS SHOULD BE AVAILABLE.
Supplemental Safety and Health

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

Boiling Pt:B.P. Text:LO-213.00-HI-418 F
Vapor Pres:27.800
Vapor Density:4.800
Spec Gravity:1.2960
VOC Pounds/Gallon:440
VOC Grams/Liter:3.68
Evaporation Rate & Reference:2.3000 (N-BUTYL ACETATE=1
Solubility in Water:REACTS WITH WATER
Appearance and Odor:LIQUID OPAQUE LIQUID SOLVENT ODOR
Percent Volatiles by Volume:51.857

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

Stability Indicator/Materials to Avoid:YES
EPOXY

CATALYSTS, ALCOHOLS, GLYCOL ETHERS, BASES, METAL COMPLEXES OR OTHER ACTIVE MATERIALS. CARBON DIOXIDE GAS COULD BUILD UP IN THE CONTAINER RESULTING IN RAPID DEPRESSURIZATION.

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE, CHLORINE, HYDROGEN CHLORIDE AND POSSIBLE CYANIDE, HEXAMETHYLENE DIISOCYANATE.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

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

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.

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

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