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Product Code: 04488WEP-4

Product Name: OFF-WHITE EPOXY PRIMER, MIL-P-53022B, TYPE II, PART A

Hentzen Coatings, Inc., 6937 W. Mill Road, Milwaukee, WI 53218-1225

Chemtrec 24-hour Emergency Phone: 800-424-9300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

(See top of page)

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product contains one or more reported carcinogens or suspected carcinogens which are noted below and in Section 11.

This product contains a component or components that are Federally classified as a hazardous air pollutant.

Component/Exposure Limits	CAS#	% by Wt.
METHYL AMYL KETONE	110-43-0	19.85
ACGIH TLV/TWA - 50 PPM, 233 MG/M3		
OSHA PEL - 100 PPM, 465 MG/M3		
OTHER LIMITS:		
NIOSH REL: 100 PPM, 465 MG/M3		
BUFF TITANIUM DIOXIDE	1317-80-2	13.60
ACGIH TLV/TWA - 10 MG/M3		
OSHA PEL - 15 MG/M3		
OTHER INFORMATION:		
TITANIUM DIOXIDE is listed by IARC as GROUP 2B based on animal studies. Possibly carcinogenic to humans.		
TITANIUM DIOXIDE	13463-67-7	10-20%
ACGIH TLV/TWA - 10 MG/M3		
OSHA PEL - 15 MG/M3		
OTHER INFORMATION: IARC has listed TiO2 as a Group 2B, possibly carcinogenic to humans.		
EPOXY RESIN	25036-25-3	10-20%
ACGIH TLV/TWA - NOT ESTABLISHED		
OSHA PEL - NOT ESTABLISHED		
TALC (HYDROUS MAGNESIUM SILICATE)	14807-96-6	7.76
ACGIH TLV/TWA- 2.0 MG/M3 (RESPIRABLE DUST)		
OSHA PEL- TWA - 20 MPPCF		
ZINC PHOSPHATE	7779-90-0	3.88
ACGIH TLV/TWA - Not Established		
OSHA PEL - Not Established		
OTHER LIMITS : The limits for nuisance particulates should be		
OSHA PEL - 5.0MG/M3 for zinc dust		
CONTAINS: 46% ZINC		
METHYL ACETATE	79-20-9	1.75
ACGIH TLV/TWA - 200 PPM, 606 MG/M3		
OSHA PEL - 200 PPM TWA, 610 MG/M3		
OTHER LIMITS:		
NIOSH REL: 200 PPM TWA, 610 MG/M3 TWA		

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<p>ACGIH STEL: 250 PPM, 757 MG/M3</p> <p>XYLENE(PURE)</p> <p>ACGIH TLV/TWA - 100 PPM, 434 MG/M3; STEL: 150 PPM</p> <p>OSHA PEL - 100 PPM(TWA), 435 MG/M3(TWA)</p> <p>OTHER LIMITS:</p> <p>NIOSH REL: 100 PPM(TWA), 435 MG/M3(TWA)</p> <p>BUTYL ALCOHOL</p> <p>ACGIH TLV/TWA - 20 PPM TWA, 61 MG/M3</p> <p>OSHA PEL - 100PPM TWA; 300 MG/M3 TWA</p> <p>OTHER LIMITS: NIOSH- 50 PPM CEILING; 150 MG/M3 CEILING</p> <p>OTHER INFORMATION - Skin Notation: Potential for dermal absorption.</p> <p>QUARTZ CRYSTALLINE SILICA</p> <p>ACGIH TLV/TWA - 0.025 MG/M3 (Respirable Fraction)</p> <p>OSHA PEL- (30.0 mg/m3)/(%SiO2 + 2), (TWA), Total Dust* (10.0 MG/M3)/(%SiO2 + 2), (TWA), Respirable Fraction*</p> <p>OTHER LIMITS:</p> <p>NIOSH REL: 0.05 MG/M3 (Respirable Fraction)</p> <p>OTHER INFORMATION:</p> <p>IARC has classified inhalation of Crystalline Silica as carcinogenic for humans (GROUP 1).</p> <p>See section 11 for more information.</p> <p>*"% SiO2" is the percentage of crystalline silica determined by airborne samples as defined by 29CFR1910.1000, Z-3.</p> <p>ETHYLBENZENE</p> <p>ACGIH TLV/TWA - 100 PPM, 434 MG/M3 STEL: 125PPM</p> <p>OSHA PEL - 100 PPM, 435 MG/M3</p> <p>OTHER INFORMATION: Listed by IARC as Group 2B, possibly carcinogenic to humans. See Section 11.</p> <p>OTHER LIMITS:</p> <p>NIOSH REL: 100 PPM(TWA), 435 MG/M3(TWA)</p> <p>FORMALDEHYDE</p> <p>ACGIH TLV/TWA - 0.3 PPM (Ceiling limit) , 1PPM TWA</p> <p>OSHA PEL - 0.75 PPM TWA; 2PPM STEL; 0.5 PPM (Action level) (See 29 CFR 1910.1048)</p> <p>OTHER INFORMATION: Listed by NTP, IARC, OSHA, and NIOSH as a human carcinogen(GROUP 1). See section 11.</p>	<p>1330-20-7</p> <p>1.59</p> <p>71-36-3</p> <p>1.19</p> <p>14808-60-7</p> <p>.175</p> <p>100-41-4</p> <p>.140</p> <p>50-00-0</p> <p>.070</p>
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3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

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 reaction.

FLAMMABLE LIQUID

Keep away from heat, sparks, and flame.

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Vapors may cause flash fire.
Toxic gases/fumes are given off during burning or thermal decomposition.

EYE CONTACT:

Severe irritant. Prolonged contact may result in chemical burns to the eyes. Blindness may occur.

SKIN CONTACT:

Severe irritant. Contact with skin causes severe irritation and pain. Prolonged contact may result in chemical burns. Product may be absorbed through the skin in harmful amounts.

PRIMARY ROUTES OF ENTRY:

Skin absorption.
Dermal and inhalation.

INGESTION:

If swallowed, consult a physician immediately.

INHALATION:

Anesthetic. Can cause irritation of the respiratory tract or acute nervous system depression characterized by the following progressive steps if severe overexposure is continued: headache, dizziness, staggering gait, confusion or unconsciousness.

CHRONIC INFORMATION:

See Section 11.

CARCINOGENICITY:

See Section 11.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

Asthma and other respiratory ailments; chemical sensitization.

4. FIRST AID MEASURES

EYE CONTACT:

Flush immediately with large amounts of running water for at least 15 minutes while lifting eyelids. Take to a physician for medical treatment.

SKIN CONTACT:

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Wash affected areas with soap and water. Remove contaminated clothing and wash before reuse. Consult a physician if irritation develops or persists.

INGESTION:

If swallowed, CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

INHALATION:

Remove from exposure. Restore breathing. Keep warm and quiet. Notify a physician.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION PROPERTIES:**FLASH POINT (deg.F) :**

14

METHOD:

Tag Closed Cup

FLAMMABLE LIMITS % :

Lower limit: 1.1

Upper limit: 73.0

AUTOIGNITION TEMPERATURE:

N/A

EXTINGUISHING MEDIA:

Carbon Dioxide, Dry Chemical or Foam.

FIREFIGHTING PROCEDURES AND EQUIPMENT:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flames. Closed container may explode when exposed to extreme heat. 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. Full protective equipment including self-contained breathing apparatus should be worn. Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure build-up or possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

6. ACCIDENTAL RELEASE MEASURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED :

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. Contain and remove with inert absorbent and nonsparking tools.

7. HANDLING AND STORAGE

HANDLING:

Use only with adequate ventilation. Avoid prolonged breathing of vapors. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates that vapor/mist levels are below applicable exposure limits. Follow respirator manufacturer's directions for use. 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.

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. Keep away from heat, sparks and open flame. Keep containers closed when not in use. Keep closures tight and upright to prevent leakage. Emptied containers may retain hazardous residue. Follow all hazard precautions in this data sheet until container is thoroughly cleaned or destroyed. To avoid spontaneous combustion during temporary storage, soak soiled rags and waste immediately after use in a water-filled, closed container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below current applicable OSHA safety and health requirements in the mixing, application and curing areas; and to remove decomposition products during welding and flame cutting on surfaces coated with this product.

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RESPIRATORY PROTECTION:

When spray applied and when used in limited ventilation areas, wear a NIOSH/MSHA approved organic vapor/particulate respirator designed to remove a combination of particulate, gas and vapor. When used in confined areas or poorly ventilated areas, use a NIOSH/MSHA approved air line type respirator or hood. During sanding or grinding operations, use a NIOSH approved particulate respirator to remove solid airborne particles of sanding dust. Use NIOSH approved respirators when flame cutting, welding or hazing material coated with this product. Observe OSHA regulations for respirator use (29 CFR 1910.134). Air monitoring of the workplace may be required to determine appropriate respirator selection.

EYE PROTECTION:

Use safety eyewear with splash guards or side shields. A full face shield may be appropriate. Contact lenses should not be worn.

SKIN PROTECTION:

It is good industrial hygiene practice to minimize skin contact. Chemical resistant gloves are required for prolonged or repeated contact. An apron may be appropriate to protect against skin contact. Prevent prolonged skin contact with contaminated clothing. Wash contaminated clothing before reuse.

OTHER PROTECTIVE EQUIPMENT AND GUIDLINES:

Safety showers and eye wash stations should be available. Educate and train employees in the safe use of this product. Minimal concentrations of free formaldehyde will be liberated during the curing process that occurs in ovens. Proper exhaust ventilation of the ovens is necessary to control workplace formaldehyde exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:

Liquid.

APPEARANCE:

Opaque.

ODOR:

Solvent odor.

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VOC (LB/GL):
3.03 lb/gl
VOC (grams/liter):
363 g/l
WEIGHT PER GALLON:
12.8154 lb/gl
SPECIFIC GRAVITY:
1.5391
%EXEMPT SOLVENT by WEIGHT:
1.818
%EXEMPT SOLVENT by VOLUME:
3.013
BOILING POINT (deg. F):
132.8
WATER SOLUBILITY:
Negligible.
FREEZING POINT (deg. F):
N/A

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions.

HAZARDOUS POLYMERIZATION:

Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Free formaldehyde.

May produce hazardous fumes when heated to decomposition as in welding. Fumes may contain the following:

Carbon Monoxide, Carbon Dioxide and other toxic vapors depending upon the temperature reached.

INCOMPATIBILITIES (MATERIALS TO AVOID):

Strong oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

Xylene (Mixed Isomers):

LD50 Oral Rat = 4300mg/kg

LC50 Inhalation Rat = 6700 ppm for 4 hours

LD50 Dermal Rabbit = >2000mg/kg

n-Butyl Alcohol:

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LD50 Oral Rat = 790mg/kg
LC50 Inhalation Rat = 8000 ppm for 4 hours
LD50 Oral Mouse = 2680 mg/kg
LD50 Dermal Rabbit = 3400mg/kg

Formaldehyde:

LC50 Inhalation Mouse = 454 mg/m³/4 hours
LD50 Oral Rat = 100 mg/kg
LD50 Oral Mouse = 42 mg/kg
LD50 Dermal Rabbit = 270 microL/kg

Talc:

Rat Inhalation, TC(LO) = 11 mg/cu.m
Rat Dermal, TD(LO) = 200 mg/cu.m

Titanium Dioxide:

Oral ALD Rat = >24,000 mg/kg
Dermal ALD Rabbit = >10,000 mg/m³
Inhalation 4-hour ALC Rat = >6.82 mg/l

Ethyl Benzene:

Oral Rat LD50 = 3.5 g/kg
Dermal Rabbit LD50 = 17 g/kg

Has not been tested as a whole for acute effects.

CHRONIC EFFECTS:

n-Butyl alcohol has been shown to affect the auditory nerve and possibly produce loss of hearing. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage, liver and kidney damage. Long term overexposure effects are not currently known. There are reports that long-term repeated exposure to Xylene may result in some loss of hearing.

Has not been tested as a whole for chronic effects.

CARCINOGENICITY:

Contains Ethylbenzene which IARC has listed as Group 2B, possibly carcinogenic to humans, based upon laboratory animal studies. This product contains Formaldehyde, which is listed as a suspected carcinogen by OSHA and NTP based upon animal studies. IARC identifies Formaldehyde as Group 1, carcinogen to humans. The OSHA Formaldehyde Standard (29 CFR 1910.1048)

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establishes an action level of 0.5 part Formaldehyde per million parts of air as an eight hour time weighted average concentration. Monitoring of workplace exposures may be required to determine compliance with this Standard. IARC determined that crystalline silica inhaled in the form of quartz or cristoblite is carcinogenic to humans, and has listed it as a Group 1 material. The National Toxicology Program (NTP) classified respirable crystalline silica as "reasonably anticipated to be a carcinogen". May cause lung injury if respiratory precautions are not used. IARC has listed titanium dioxide as Group 2B, possible human carcinogen. The listing is based on the opinion by IARC that there is inadequate evidence of carcinogenicity to humans, but there is sufficient evidence of cancer in experimental animals. Excessive inhalation of cristaline silica may cause lung damage in the form of the disease called silicosis, which is progressive and sometimes fatal. Symptoms include coughing, shortness of breath, wheezing, chest illness, and reduced pulmonary function. Some studies have concluded there is significant risk of developing this disease even at exposure levels equal to that recommended by NIOSH, ACGIH TLV, and OSHA PEL.

Has not been tested as a whole for carcinogenicity effects.

MUTAGENICITY:

This product contains talc, which is a suspected tumorigen. Has not been tested as a whole for mutagenicity effects.

REPRODUCTIVE EFFECTS:

Has not been tested as a whole for reproductive effects.

DEVELOPMENTAL EFFECTS:

Has not been tested as a whole for developmental effects.

12. ECOLOGICAL INFORMATION

ECOLOGICAL EFFECTS:

Has not been tested as a whole for ecological effects.

13. DISPOSAL CONSIDERATIONS

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

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waste to dispose of it properly. Laboratory analysis is recommended to profile the waste for proper disposal determination.

U.S E.P.A WASTE NUMBER AND DESCRIPTION:

D001 Waste Paint

HAZARDOUS WASTE CHARACTERISTICS:

Ignitable.

14. TRANSPORT INFORMATION

UN NUMBER:

UN 1263

DOT PROPER SHIPPING NAME:

Paint

DOT HAZARD CLASS:

3

DOT LABEL:

Flammable Liquid

DOT PACKAGING GROUP:

PG II

U.S POSTAL SERVICE:

Will not handle.

15. REGULATORY INFORMATION

(Not meant to be all inclusive - selected regulations represented)

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 and of 40 CFR 372:

CAS#100-41-4	Ethyl Benzene
CAS#1330-20-7	Xylene
CAS#N/A	Zinc Compound
CAS#71-36-3	n-Butyl Alcohol

TSCA STATUS:

All ingredients are listed on the TSCA inventory.

STATE REGULATIONS:

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Quartz Crystalline Silica is listed by the State of California to cause cancer.

This product may contain chemicals that fall under individual state Right-to-Know regulatory requirements. See Section 2 for material listings. For details on regulatory requirements, contact the appropriate agency in your state.

16. OTHER INFORMATION

Date of issue: 8/24/2007

Last Revision Date: 08/24/07

HMIS Information

HEALTH: 2

FLAMMABILITY: 3

REACTIVITY: 1

PERSONAL PROTECTIVE EQUIPMENT:

DISCLAIMER:

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