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Product Code: 16678AEF-LVOC

Product Name: 36231 GRAY EPOXZEN, MIL-PRF-22750F, PART A

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

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.

Component/Exposure Limits	CAS#	% by Wt.
METHYL ACETATE	79-20-9	19.09
ACGIH TLV/TWA - 200 PPM		
OSHA PEL - 200 PPM		
OTHER INFORMATION: 250 PPM = STEL		
BENZENE, 1-CHLORO-4 (TRIFLUOROMETHYL)	098-56-6	17.77
ACGIH TLV/TWA - Not Established		
OSHA PEL - CEL : 25 PPM 8 HR TWA		
TITANIUM DIOXIDE	13463-67-7	10-20%
ACGIH TLV/TWA - 10 MG/M3		
OSHA PEL - 10 MG/M3		
OTHER INFORMATION: IARC has listed TiO2 as a Group 2B, possibly carcinogenic to humans. See Section 11.		
AMORPHOUS PRECIPITATED SILICA	112926-00-8	0-10%
ACGIH TLV/TWA - 10 MG/M3 Total dust		
OSHA PEL - 6 MG/M3 Total dust		
METHYL AMYL KETONE	110-43-0	4.13
ACGIH TLV/TWA - 50 PPM		
OSHA PEL - 100 PPM		
BUTYL ACETATE	123-86-4	1.19
ACGIH TLV/TWA - 150 PPM		
OSHA PEL - 150 PPM		
OTHER LIMITS: 200 PPM = STEL		
BUTYL ALCOHOL	71-36-3	1.01
ACGIH TLV/TWA - 20 PPM TWA		
OSHA PEL - 100PPM TWA; 300 MG/M3 TWA		
OTHER LIMITS: NIOSH- 50 PPM CEILING; 150 MG/M3 CEILING		
OTHER INFORMATION - Skin Notation: Potential for dermal absorption.		
CARBON BLACK	1333-86-4	.195
ACGIH TLV/TWA - 3.5 MG/M3		
OSHA PEL - 3.5 MG/M3		
OTHER INFORMATION: Listed by IARC as Group 2B, possibly carcinogenic to humans. See Section 11.		
QUARTZ CRYSTALLINE SILICA	14808-60-7	.160

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ACGIH TLV/TWA - 0.1 MG/M3 (RESPIRABLE FRACTION)  
OSHA PEL- 0.1 MG/M3 (RESPIRABLE FRACTION)  
IARC classified inhalation of Crystalline Silica as  
a carcinogen to humans (Group 1). See Section 11.

### **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.  
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.

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**MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:**

Asthma and other respiratory ailments; chemical sensitization.

**4. FIRST AID MEASURES**

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**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:**

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**

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**FIRE AND EXPLOSION PROPERTIES:**

**FLASH POINT (deg.F):**

9

**METHOD:**

Tag Closed Cup

**FLAMMABLE LIMITS % :**

Lower limit: 0.9

Upper limit: 16

**AUTOIGNITION TEMPERATURE:**

N/A

**EXTINGUISHING MEDIA:**

Carbon Dioxide, Dry Chemical or Foam.

**FIREFIGHTING PROCEDURES AND EQUIPMENT:**

Keep containers tightly closed. Isolate from heat,

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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**

### **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

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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.

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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### **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.

### **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.

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Educate and train employees in the safe use of this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### PHYSICAL STATE:

Liquid.

### APPEARANCE:

Opaque.

### ODOR:

Solvent odor.

### VOC (LB/GL):

1.41 lb/gl

### VOC (grams/liter):

169 g/l

### WEIGHT PER GALLON:

11.2517 lb/gl

### SPECIFIC GRAVITY:

1.3513

### %EXEMPT SOLVENT by WEIGHT:

36.911

### %EXEMPT SOLVENT by VOLUME:

45.543

### BOILING POINT (deg. F):

55.8

### 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:

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

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**ACUTE EFFECTS:**

n-Butyl Alcohol:

LD50 Oral Rat = 790mg/kg

LC50 Inhalation Rat = 8000 ppm for 4 hours

LD50 Oral Mouse = 2680 mg/kg

LD50 Dermal Rabbit = 3400mg/kg

Carbon Black

Oral Rat LD50 = &gt;8 g/kg

Titanium Dioxide:

Oral ALD Rat = &gt;24,000 mg/kg

Dermal ALD Rabbit = &gt;10,000 mg/m3

Inhalation 4-hour ALC Rat = &gt;6.82 mg/l

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.

Has not been tested as a whole for chronic effects.

**CARCINOGENICITY:**

Contains carbon black which has been listed by IARC as a possible human carcinogen (group 2B) based upon laboratory animal inhalation studies.

IARC has listed crystalline silica as Group 1, carcinogenic to humans. 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.

Has not been tested as a whole for carcinogenicity effects.

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**MUTAGENICITY:**

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**

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**ECOLOGICAL EFFECTS:**

Has not been tested as a whole for ecological effects.

**13. DISPOSAL CONSIDERATIONS**

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**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. 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**

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**DOT PROPER SHIPPING NAME:**

Paint

**UN NUMBER:**

UN1263

**DOT HAZARD CLASS:**

3

**DOT LABEL:**

Flammable Liquid

**DOT PACKAGING GROUP:**



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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#71-36-3      n-Butyl Alcohol

**TSCA STATUS:**

All ingredients are listed on the TSCA inventory.

**STATE REGULATIONS:**

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: 8/10/2006

Last Revision Date: 08/09/05

**HMIS Information**

HEALTH: 2

FLAMMABILITY: 4

REACTIVITY: 1

PERSONAL PROTECTIVE EQUIPMENT:

**DISCLAIMER:**

This MSDS is provided as an informational resource only. The information is received from a combination of sources, including raw material suppliers and is believed to be reliable and accurate. It does not intend to be all-inclusive and shall only be used as a guide. Changing reporting requirements and other uncontrolled variables make it impossible to guarantee the accuracy of the information contained in this document. It is the responsibility of the user to verify its information as well as determine the proper personal

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protection based on conditions of use. The buyer assumes all responsibility for the use and handling of this product in accordance with the Federal, State and Local laws and regulations. Hentzen Coatings, Inc. makes no representation or warranty regarding the accuracy of this information nor that the information or data will not change.