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Product Code: 16632KEF-LVOC

Product Name: 27038 BLACK EPOXZEN, MIL-PRF-22750F, 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 ACETATE	79-20-9	15.24
ACGIH TLV/TWA - 200 PPM		
OSHA PEL - 200 PPM		
OTHER INFORMATION: 250 PPM = STEL		
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	098-56-6	11.79
ACGIH TLV/TWA - Not Established		
OSHA PEL - CEL : 25 PPM 8 HR TWA		
METHYL AMYL KETONE	110-43-0	4.77
ACGIH TLV/TWA - 50 PPM		
OSHA PEL - 100 PPM		
AMORPHOUS PRECIPITATED SILICA	112926-00-8	1.57
ACGIH TLV/TWA - 10 MG/M3		
OSHA PEL - 6.0 MG/M3		
CARBON BLACK	1333-86-4	1.179
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	.217
ACGIH TLV/TWA - 0.025 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.		
FORMALDEHYDE	50-00-0	.055
ACGIH TLV/TWA - 0.3 PPM (Ceiling limit) , 1PPM TWA		
OSHA PEL - 0.75 PPM TWA; 2PPM STEL; 0.5 PPM (Action level)		
(See 29 CFR 1910.1048)		
OTHER INFORMATION: Listed by NTP, IARC, OSHA, and NIOSH as a human carcinogen(GROUP 1). See section 11.		

3. HAZARDS IDENTIFICATION

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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.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

Asthma and other respiratory ailments; chemical sensitization.

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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:

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):

9

METHOD:

Tag Closed Cup

FLAMMABLE LIMITS % :

Lower limit: 0.9

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

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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 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

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. 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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:

Liquid.

APPEARANCE:

Opaque.

ODOR:

Solvent odor.

VOC (LB/GL):

1.43 lb/gl

VOC (grams/liter):

171 g/l

WEIGHT PER GALLON:

12.7127 lb/gl

SPECIFIC GRAVITY:

1.5267

%EXEMPT SOLVENT by WEIGHT:

27.084

%EXEMPT SOLVENT by VOLUME:

38.388

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:

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

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ACUTE EFFECTS:

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

Carbon Black

Oral Rat LD50 = >8 g/kg

Has not been tested as a whole for acute effects.

CHRONIC EFFECTS:

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.

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) 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.

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.

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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

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 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:

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DOT LABEL:

Flammable Liquid

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DOT PACKAGING GROUP:
PG II

U.S POSTAL SERVICE:
Will not handle.

15. REGULATORY INFORMATION

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

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: 6/19/2007

Last Revision Date: 06/30/05

HMIS Information

HEALTH: 2*

FLAMMABILITY: 4

REACTIVITY: 1

PERSONAL PROTECTIVE EQUIPMENT:

DISCLAIMER:

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