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Product Code: 17292YDF-LVOC

Product Name: 13538 YELLOW EPOXZEN, MIL-PRF-22750G, PART A,TY II, CL H, GR 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. HAPs materials are designated by the use of an "*".

Component/Exposure Limits	CAS#	% by Wt.
METHYL ACETATE	79-20-9	27.31
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		
ACGIH STEL: 250 PPM, 757 MG/M3		
BISPHENOL A/ EPICHLOROHYDRIN BASED EPOXY RESIN	25068-38-6	10-20%
ACGIH TLV/TWA : NOT ESTABLISHED		
OSHA PEL : NOT ESTABLISHED		
OTHER INFORMATION:		
THE BASIC RAW MATERIALS (BPA AND ECH) ARE CONSUMED IN THE REACTION OF THE RESIN MANUFACTURING PROCESS PER MANUFACTURE'S MSDS.		
POSSIBLE SENSITIZER, SKIN SENSITIZATION (DERMATITIS)		
BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN	25036-25-3	10-20%
ACGIH TLV/TWA : NOT ESTABLISHED		
OSHA PEL : NOT ESTABLISHED		
OTHER INFORMATION:		
THE BASIC RAW MATERIALS (BPA AND ECH) ARE CONSUMED IN THE RESIN REACTION MANUFACTURING PROCESS PER MANUFACTURE'S MSDS.		
POSSIBLE SENSITIZER, SKIN SENSITIZATION (DERMATITIS)		
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	98-56-6	10.42
ACGIH TLV/TWA - Not Established		
OSHA PEL - Not Established		
OTHER LIMITS;		
CEL: 25 PPM 8 Hours TWA		
METHYL AMYL KETONE	110-43-0	0-10%
ACGIH TLV/TWA - 50 PPM, 233 MG/M3		
OSHA PEL - 100 PPM, 465 MG/M3		

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OTHER LIMITS:

NIOSH REL/TWA : 100 PPM, 465 MG/M3

CHROME,NICKEL,ANTIMONY TITANIUM DIOXIDE PIGMENT 68186-90-3 0-10%

ACGIH TLV/TWA - 0.5 MG/M3 for Sb & Cr(III); 0.2 MG/M3 for Ni

OSHA PEL - 0.5 MG/M3 for Sb & Cr(III); 1 MG/M3 for Ni

OTHER LIMITS - TLV is for insoluble Ni compounds.

OTHER INFORMATION:IARC and the NTP consider nickel compounds to be carcinogenic to humans(Monograph #49).

This compound is the product of high temperature calcination. It did not exhibit extractable contaminants beyond EPA limits using the TCLP method 1311, 40CFR 261 Appendix II.

This finished pigment does not necessarily reflect the properties of the component metals or oxides.

CONTAINS: 10% Antimony,

3% Trivalent Chrome, 1% Nickel

TITANIUM DIOXIDE 13463-67-7 0-10%

ACGIH TLV/TWA - 10 MG/M3

OSHA PEL - 15 MG/M3 (TOTAL DUST) TWA

OTHER INFORMATION: IARC has listed TiO2 as a Group 2B, possibly carcinogenic to humans.

BUTYL ACETATE 123-86-4 1.67

ACGIH TLV/TWA - 150 PPM, 713MG/M3,STEL/CEIL:200PPM

OSHA PEL: 150PPM, 710MG/M3

OTHER LIMITS:

NIOSH REL: 150PPM, 710MG/M3; STEL/CEIL: 200PPM(TWA)

ALIPHATIC ACRYLIC ESTER 1.56

ACGIH TLV/TWA: NOT ESTABLISHED

OSHA PEL; NOT ESTABLISHED

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:

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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:

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.

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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: 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, 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.

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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.

RESPIRATORY PROTECTION:

When spray applied, sanding, grinding, flame cutting, welding, hazing material coated with this product, or 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. Observe OSHA regulations for respirator use (29 CFR 1910.134). Air monitoring of the workplace may be required to determine appropriate respirator selection. When exposure limits are

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not known, it is recommended to use a NIOSH/MSHA approved air line type respirator or hood.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES**PHYSICAL STATE:**

Liquid.

APPEARANCE:

Opaque.

ODOR:

Solvent odor.

VOC (LB/GL):

1.22 lb/gl

VOC (grams/liter):

146 g/l

WEIGHT PER GALLON:

9.5851 lb/gl

SPECIFIC GRAVITY:

1.1511

%EXEMPT SOLVENT by WEIGHT:

37.736

%EXEMPT SOLVENT by VOLUME:

42.576

BOILING POINT (deg. F):

132.8

WATER SOLUBILITY:

Negligible.

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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.

Decomposition of Benzene, 1-chloro-4(trifluoromethyl) can produce chlorine and fluorine gases.

INCOMPATIBILITIES (MATERIALS TO AVOID):

Strong oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

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

Has not been tested as a whole for acute effects.

CHRONIC EFFECTS:

Some reports have associated repeated and prolonged contact with Trivalent Chrome to dermatitis. As noted by the American Conference of Governmental Industrial Hygienists (ACGIH) in their publication "Documentation of the Threshold Limit Values", repeated and prolonged exposures to Trivalent Chrome compounds may cause delayed effects involving the respiratory system.

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.

Prolonged or repeated skin contact causes skin irritation and red, pimply skin eruptions or lesions referred to as "antimony measles". Irritation is aggravated when skin

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surface is moist as when perspiring. Chronic inhalation has resulted in benign pneumoconiosis.

Nickel overexposure can cause allergic skin reactions and asthma. Inhalation can cause effects on the lungs such as bronchitis, emphysema, and impaired function, as well as kidney damage.

May contain antimony oxide which may cause coughing and rhinitis following breathing of dust.

Has not been tested as a whole for chronic effects.

CARCINOGENICITY:

NTP, IARC and ACGIH found that "there is sufficient evidence for the carcinogenicity of Chromium and certain Chromium compounds both in humans and in experimental animals". The Chromium compounds that are considered carcinogenic are hexavalent Chromium compounds. This product contains a trivalent Chromium compound. It is not specifically listed as a carcinogen by NTP, IARC or ACGIH.

The Nickel compound in this product has not been specifically identified as causing cancer in humans or animals. However, NTP and IARC have listed "Nickel and certain Nickel compounds" as probably carcinogenic to humans.

IARC has listed antimony oxide as Group 2B, probable human carcinogen. A long-term inhalation study indicated antimony oxide may have caused malignant lung tumors in laboratory rats.

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.

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:**

CAS#N/A	Antimony, Chrome, and Nickel Compound
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TSCA STATUS:

All ingredients are listed on the TSCA inventory.

STATE REGULATIONS:

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: 12/10/2012

Last Revision Date: 08/11/09

HMIS Information

HEALTH: 2

FLAMMABILITY: 3

REACTIVITY: 1

PERSONAL PROTECTIVE EQUIPMENT: X

DISCLAIMER:

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