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Product Code: 53012YEP

Product Name: YELLOW EPOXY PRIMER MIL-PRF-23377J, TYPE I, CLASS C1

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	12.21
ACGIH TLV/TWA - 50 PPM, 233 MG/M3		
OSHA PEL - 100 PPM, 465 MG/M3		
OTHER LIMITS:		
NIOSH REL/TWA : 100 PPM, 465 MG/M3		
BARIUM SULFATE	7727-43-7	10-20%
ACGIH TLV/TWA - Not Established		
OSHA PEL - Not Established		
BARIUM CHROMATE	10294-40-3	8.112
ACGIH TLV/TWA - 0.01MG/M3 as Cr(VI), 0.5MG/M3 as Ba		
OSHA PEL - 0.005MG/M3 as Cr(VI), ACTION LEVEL is 0.0025MG/M		
PEL is the ceiling limit. 0.5MG/M3 as Ba		
OTHER INFORMATION:		
NIOSH RECOMMENDED LIMIT- 0.001MG/M3 for Cr(VI)		
Hexavalent Chrome is listed as a carcinogen by IARC (Group 1		
See section 11 for more information.		
Contains: 22.1% Cr(VI), 54.2% Ba		
Hexavalent Chrome is slightly water soluble - 2.4gms/liter		
METHYL ISOBUTYL KETONE	108-10-1	4.60
ACGIH TLV/TWA - 50 PPM, 205 MG/M3: STEL:75 PPM		
OSHA PEL - 100 PPM, 410 MG/M3		
OTHER LIMITS:		
NIOSH REL: 50 PPM(TWA), 205 MG/M3(TWA)		
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.		
TERTIARY BUTYL ACETATE	540-88-5	3.24
ACGIH TLV/TWA - 200 PPM, 950 MG/M3		
OSHA PEL: 200 PPM, 950 MG/M3		
OTHER INFORMATION: The EPA ruled effective as of		
December 29, 2004 that t-Butyl Acetate will not be VOC		
for purposes of VOC emissions limitations or VOC content		

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requirements; but will continue to remain VOC for purposes of all recordkeeping, emissions reporting and inventory requirements which apply to VOC.

OTHER LIMITS:

TALC (HYDROUS MAGNESIUM SILICATE)	NIOSH REL: 200PPM (TWA), 950 MG/M3 (TWA)	14807-96-6	3.24
	ACGIH TLV/TWA- 2.0 MG/M3 (RESPIRABLE DUST)		
	OSHA PEL- TWA - 20 MPPCF		
METHYL ETHYL KETONE		78-93-3	1.14

ACGIH TLV/TWA - 200 PPM, 590 MG/M3
OSHA PEL - 200 PPM (TWA), 590 MG/M3 (TWA)

OTHER INFORMATION:

On Dec. 13, 2005, the EPA issued a final rule to delist MEK from SARA 313.

OTHER LIMITS:

ETHYLBENZENE	NIOSH REL: 200 PPM (TWA), 590 MG/M3 (TWA)		
	STEL: 300 PPM (CEILING), 885 MG/M3 (CEILING)		
		100-41-4	.223

ACGIH TLV/TWA - 100 PPM, 434 MG/M3 STEL: 125PPM
OSHA PEL - 100 PPM, 435 MG/M3
OTHER INFORMATION: Listed by IARC as Group 2B, possibly carcinogenic to humans. See Section 11.
OTHER LIMITS:
NIOSH REL: 100 PPM(TWA), 435 MG/M3 (TWA)

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.

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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.

INHALATION:

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

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5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION PROPERTIES:

FLASH POINT (deg.F) :

16

METHOD:

Tag Closed Cup

FLAMMABLE LIMITS % :

Lower limit: 0

Upper limit: 11.4

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.

7. HANDLING AND STORAGE

HANDLING:

Use only with adequate ventilation. Avoid prolonged

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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 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.

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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):

2.56 lb/gl

VOC (grams/liter):

307 g/l

WEIGHT PER GALLON:

12.3195 lb/gl

SPECIFIC GRAVITY:

1.4795

%EXEMPT SOLVENT by WEIGHT:

3.245

%EXEMPT SOLVENT by VOLUME:

5.57

BOILING POINT (deg. F):

0

WATER SOLUBILITY:

Negligible.

FREEZING POINT (deg. F):

N/A

10. STABILITY AND REACTIVITY

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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**ACUTE EFFECTS:**

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:

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 Ethylbenzene which IARC has listed as Group 2B, possibly carcinogenic to humans, based upon laboratory animal studies.
IARC has listed titanium dioxide as Group 2B, possible human

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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:

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 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

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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#108-10-1	Methyl Isobutyl Ketone

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: 10/3/2007

Last Revision Date: 09/25/07

HMIS Information
HEALTH: 2
FLAMMABILITY: 3
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

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