

# **Material Safety Data Sheet**

Issuing Date: 22-Dec-2011 Revision Date: 15-Apr-2014 Version: 6

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 16125GEF-LVOC Product Name: 24533 SEA FOAM GREEN EPOXZEN,
MIL-PRF-22750G, PART A.TY II, CL H, GR A

Hentzen Coatings, Inc.

6937 West Mill Road, Milwaukee, WI 53218-1225

Company Phone Number: 1-414-353-4200 Emergency Telephone: ChemTrec 1-800-424-9300

#### 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

May be harmful if swallowed, inhaled, or absorbed through skin May produce an allergic reaction
May cause skin irritation and/or dermatitis
Harmful by inhalation

May cause central nervous system depression

EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE Vapors may be irritating to eyes, nose, throat, and lungs

**Potential Health Effects** 

Principle Routes of Exposure Inhalation, Skin Contact, Eye Contact

**Acute Toxicity** 

Eyes Prolonged contact may result in chemical burns or blindness. Irritating to eyes.

**Skin** May be harmful in contact with skin. Repeated or prolonged skin contact may cause allergic

reactions with susceptible persons. Irritating to skin. May cause inflammation.

Inhalation May be harmful if inhaled. May cause irritation of respiratory tract. Free formaldehdye will

be liberated during the curing process that occurs in the oven. Proper exhaust ventilation of

the ovens is necessary to control workplace exposures.

**Ingestion** May be harmful if swallowed. May cause additional affects as listed under "Inhalation".

Ingestion may cause irritation to mucous membranes.

**Chronic Toxicity** Prolonged or repeated exposure increases the risk. Possible risks of irreversible effects.

Avoid repeated exposure. Repeated contact may cause allergic reactions in very

susceptible persons.

Aggravated Medical Conditions Allergies. Skin disorders. Respiratory disorders. Central nervous system. Preexisting eye

disorders. Peripheral Nervous System (PNS). Lungs.

Interactions with Other Chemicals Irritants. Sensitizers. Use of alcoholic beverages may enhance toxic effects.

Environmental hazard Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment. See Section 12 for additional Ecological Information.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Contains a known or suspected carcinogen

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Hazardous Components

Chemical Name	CAS-No	Weight	ACGIH TLV	OSHA PEL
CALCIUM CARBONATE	1317-65-3	20% - 30%	N/A	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 15 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction
BARIUM SULFATE	7727-43-7	10% - 20%	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction
METHYL ACETATE	79-20-9	10% - 20%	STEL: 250 ppm TWA: 200 ppm	TWA: 200 ppm TWA: 610 mg/m³ (vacated) TWA: 200 ppm (vacated) TWA: 610 mg/m³ (vacated) STEL: 250 ppm (vacated) STEL: 760 mg/m³
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	98-56-6	10% - 20%	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m³ F (vacated) TWA: 2.5 mg/m³
TITANIUM DIOXIDE	13463-67-7	5% - 10%	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust
METHYL AMYL KETONE	110-43-0	5% - 10%	TWA: 50 ppm	TWA: 100 ppm TWA: 465 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 465 mg/m³

## 4. FIRST AID MEASURES

**General advice** Show this material safety data sheet to the doctor in attendance. If symptoms persist, call a

physician.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

**Skin Contact** Remove and wash contaminated clothing before re-use. If skin irritation persists, call a

physician. Immediate medical attention is not required. Wash off immediately with soap and

plenty of water while removing all contaminated clothes and shoes.

Inhalation Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Move to

fresh air. If breathing is irregular or stopped, administer artificial respiration. Consult a physician. Immediate medical attention is not required. Move to fresh air in case of

accidental inhalation of vapors. If symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Rinse

mouth. Clean mouth with water and afterwards drink plenty of water. Never give anything by

mouth to an unconscious person. Consult a physician.

## 5. FIRE-FIGHTING MEASURES

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Flammable Properties HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames

Extremely flammable liquid and vapor

Flammable Liquid

**Flash Point** 14 °F / -10 °C

Flammability Limits in Air

Upper 3.79 % 0.58 % Lower

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

**Explosion Data** 

**Sensitivity to Mechanical Impact** Sensitivity to Static Discharge Yes.

None.

Specific hazards arising from the

chemical

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Extremely flammable.

**Protective Equipment and Precautions for Firefighters**  Wear self-contained breathing apparatus and protective suit

**Health Hazard** 2 Flammability 4 Stability 0 Physical and chemical NFPA

hazards -

Health Hazard 1 \* Flammability 3 **Physical Hazard** 1 Personal protection X **HMIS** 

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate

ventilation. Use personal protective equipment. Keep people away from and upwind of

spill/leak. Avoid breathing vapors or mists. Ventilate the area.

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do

not flush into surface water or sanitary sewer system.

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later

disposal.

**Methods for Cleaning Up** Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent

material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert

absorbent material.

## 7. HANDLING AND STORAGE

Advice on Safe Handling Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of

ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist. Use bonding and grounding when transferring materials. Use

non-sparking tools and equipment.

Chronic Health Hazard

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**Technical Measures/Storage Conditions** 

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

**Chemical Name ACGIH TLV OSHA PEL CALCIUM CARBONATE** TWA: 15 mg/m<sup>3</sup> total dust TWA: 5 mg/m<sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m3 total dust (vacated) TWA: 5 mg/m3 respirable fraction **BARIUM SULFATE** TWA: 15 mg/m³ total dust TWA: 10 mg/m<sup>3</sup> TWA: 5 mg/m³ respirable fraction METHYL ACETATE STEL: 250 ppm TWA: 200 ppm TWA: 610 mg/m<sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: TWA: 200 ppm 610 mg/m<sup>3</sup> (vacated) STEL: 250 ppm (vacated) STEL: 760 mg/m<sup>3</sup> BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL) TWA: 2.5 mg/m<sup>3</sup> F TWA: 2.5 mg/m<sup>3</sup> F (vacated) TWA: 2.5 mg/m<sup>3</sup> TWA: 15 mg/m³ total dust TITANIUM DIOXIDE TWA: 10 mg/m<sup>3</sup> (vacated) TWA: 10 mg/m<sup>3</sup> total dust METHYL AMYL KETONE TWA: 50 ppm TWA: 100 ppm TWA: 465 mg/m<sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 465 mg/m<sup>3</sup>

NIOSH IDLH: Immediately Dangerous to Life or Health

Handle only in a place equipped with local exhaust (or other appropriate exhaust). However **Engineering Measures** 

it is the duty of the user to verify this and follow given exposure limits at the workplace.

Keep away from fire, sparks and heated surfaces.

**Personal Protective Equipment** 

**Eye/Face Protection** Tightly fitting safety goggles. Face-shield.

**Skin and Body Protection** Solvent-resistant gloves. Handle in accordance with good industrial hygiene and safety

practice. Remove contaminated clothing and shoes. Wash contaminated clothing before

reuse.

13.05

Maintain adequate ventilation. If exposure limits are exceeded or irritation is experienced, **Respiratory Protection** 

NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection

must be provided in accordance with current local regulations.

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area **Hygiene Measures** 

and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C Liquid **Appearance** Opaque

Odor Solvent. **Flash Point** 14 °F / -10 °C

**Boiling Point** 133 °F / 56 °C **Specific Gravity** 1.57

Weight per Gallon (lbs/gal): Flammability Limits in Air

Upper 3.79 % 0.58 % Lower

## 10. STABILITY AND REACTIVITY

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**Stability** Stable under recommended storage conditions.

Incompatible Products Strong oxidizing agents.

**Conditions to Avoid**None known based on information supplied.

Hazardous Decomposition Products Carbon monoxide (CO<sub>2</sub>). Thermal decomposition can lead to release

of irritating gases and vapors. Decomposition of Benzene 1-chloro4-(trifluoromethyl) can produce CI and FI gases. Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>). Thermal decomposition can lead to release of irritating gases and vapors. Free formaldehyde.

Hazardous Polymerization Hazardous polymerization does not occur.

#### 11. TOXICOLOGICAL INFORMATION

#### **Acute Toxicity**

**Product Information** Excessive inhalation of crystalline silica may cause lung damage in the form of silicosis,

which is progressive and sometimes fatal. Long-term repeated exposure to Xylene may

result in hearing loss.

#### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
METHYL ACETATE	5000 mg/kg (Rat)	2000 mg/kg (Rat) 5000 mg/kg (	16000 ppm (Rat) 4 h
		Rabbit )	
BENZENE,1-CHLORO-4	13 g/kg (Rat)	2706 mg/kg (Rabbit)	33 mg/L (Rat) 4 h
(TRIFLUOROMETHYL)			- ' '
TITANIUM DIOXIDE	10000 mg/kg (Rat)	N/A	N/A
METHYL AMYL KETONE	1670 mg/kg (Rat)	12600 μL/kg (Rabbit)	N/A

#### **Chronic Toxicity**

**Product Information** Excessive inhalation of crystalline silica may cause lung damage in the form of silicosis,

which is progressive and sometimes fatal. Long-term repeated exposure to Xylene may result in hearing loss. Prolonged or repeated exposure increases the risk. Possible risks of irreversible effects. Avoid repeated exposure. Repeated contact may cause allergic

reactions in very susceptible persons.

Carcinogenicity This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly

carcinogenic to humans (Group 2B).

Chemical Name	IARC	ACGIH	NTP	OSHA
TITANIUM DIOXIDE	Group 2B	N/A	N/A	X

#### Legend:

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans OSHA: (Occupational Safety & Health Administration)

X - Present

Target Organ Effects Central nervous system (CNS), Eyes, Lungs, Peripheral Nervous System (PNS),

Respiratory system, Skin.

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## 12. ECOLOGICAL INFORMATION

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## Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
METHYL ACETATE	120: 72 h Desmodesmus subspicatus mg/L EC50	295-348: 96 h Pimephales promelas mg/L LC50 flow-through 250-350: 96 h Brachydanio rerio mg/L LC50 static	N/A	1026.7: 48 h Daphnia magna mg/L EC50
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	N/A	11.5-15.8: 48 h Lepomis macrochirus mg/L LC50 static	N/A	3.68: 48 h Daphnia magna mg/L EC50
METHYL AMYL KETONE	N/A	126-137: 96 h Pimephales promelas mg/L LC50 flow-through	N/A	N/A

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

**US EPA Waste Number** U031 U122 U220 U239 D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
BARIUM SULFATE	Toxic soluble
METHYL ACETATE	Toxic Ignitable

## 14. TRANSPORT INFORMATION

DOT

Proper shipping namePaintHazard class3UN/ID NoUN1263

Packing Group

**Description** UN1263, Paint, 3, II

Emergency Response Guide 128

Number

TDG

Proper shipping namePaintHazard class3UN/ID NoUN1263Packing GroupII

Description UN1263, Paint, 3, II

**MEX** 

Proper shipping namePaintHazard class3UN/ID NoUN1263

Packing Group

**Description** UN1263, Paint, 3, II

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**ICAO** 

UN/ID NoUN1263Proper shipping namePaintHazard class3Packing GroupII

**Description** UN1263, Paint, 3, II

ICAO/IATA

UN/ID NoUN1263Proper shipping namePaintHazard class3Packing GroupIIERG Code3L

**Description** UN1263, Paint, 3, II

IMDG/IMO

Proper shipping namePaintHazard class3UN/ID NoUN1263Packing GroupIIEmS No.F-E, S-E

EIII3 NO. 1-L, 0-L

**Description** UN1263, Paint, 3, II

RID

Proper shipping namePaintHazard class3UN/ID NoUN1263Packing GroupIIClassification CodeF1

**Description** UN1263, Paint, 3, II

ADR/RID

Proper shipping namePaintHazard class3UN/ID NoUN1263Packing GroupIIClassification CodeF1

**Description** UN1263, Paint, 3, II, (D/E)

ADR/RID-Labels 3

ADN

Proper shipping namePaintHazard class3UN/ID NoUN1263Packing GroupIIClassification CodeF1

**Special Provisions** 163, 640C, 650 **Description** UN1263, Paint, 3, II

Limited quantity 5 L
Ventilation VE01

## 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies

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**DSL/NDSL** Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

## Clean Air Act

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **U.S. State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
CALCIUM CARBONATE	Χ	Х	Х	N/A	Х
BARIUM SULFATE	Χ	Х	X	N/A	Х
METHYL ACETATE	Χ	Х	Х	N/A	Х
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	N/A	X	N/A	N/A	Х
TITANIUM DIOXIDE	Χ	Х	X	N/A	X
METHYL AMYL KETONE	Χ	Х	Х	N/A	X
AMORPHOUS PRECIPITATED SILICA	Х	X	Х	N/A	N/A
BUTYL ACETATE	X	X	X	N/A	X

## **International Regulations**

Mexico - Grade Serious risk, Grade 3

Chemical Name	Carcinogen Status	Exposure Limits

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CALCIUM CARBONATE	N/A	Mexico: TWA 10 mg/m³ Mexico: STEL 20 mg/m³
BARIUM SULFATE	N/A	Mexico: TWA 0.5 mg/m <sup>3</sup>
METHYL ACETATE	N/A	Mexico: TWA 200 ppm Mexico: TWA 610 mg/m³ Mexico: STEL 250 ppm Mexico: STEL 760 mg/m³
TITANIUM DIOXIDE	N/A	Mexico: TWA 10 mg/m <sup>3</sup> Mexico: STEL 20 mg/m <sup>3</sup>
METHYL AMYL KETONE	N/A	Mexico: TWA 50 ppm Mexico: TWA 235 mg/m³ Mexico: STEL 100 ppm Mexico: STEL 465 mg/m³

## **16. OTHER INFORMATION**

#### DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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