

# SAFETY DATA SHEET

Issuing Date: 22-Dec-2011 Revision Date: 15-Jun-2016 Revision Number: 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Code: 03813TUA-ULVOC Product Name: 33531 SAND VOHAP FREE ZENTHANE, 1.0

VOC, MIL-DTL-53039E, TYPE IV

Hentzen Coatings, Inc.

Company Phone Number: 1-414-353-4200
6937 West Mill Road, Milwaukee, WI 53218-1225

Emergency telephone number ChemTrec 1-800-424-9300

Recommended use of the chemical and restrictions on use Industrial paint (Paint or Paint-Related), Restricted to

professional users

## 2. HAZARDS IDENTIFICATION

#### Classification

## **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Carcinogenicity	Category 2
Flammable Liquids	Category 3

#### **Label Elements**

#### **Emergency Overview**

#### WARNING

#### Hazard Statements

Suspected of causing cancer Flammable liquid and vapor





Appearance Opaque Physical state Liquid Odor Solvent

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/Bond container and receiving equipment

Use explosion-proof electrical/ ventilating/ lighting/ equipment

Use only non-sparking tools

Take precautionary measures against static discharge

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

In case of fire: Use CO2, dry chemical, or foam for extinction

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool Store in accordance with local regulations

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

#### Other information

· May be harmful in contact with skin

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Contains a known or suspected carcinogen

This product contains substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990. See Section 15 for list of HAPS.

Chemical Name	CAS No	Weight-%	ACGIH	OSHA
TITANIUM DIOXIDE	13463-67-7	10% - 20%	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m³ total dust
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE	28182-81-2	10% - 20%	N/A	N/A
HEXAMETHYLENE DIISOCYANATE MONOMER	822-06-0	0% - 1%	TWA: 0.005 ppm	N/A

#### 4. FIRST AID MEASURES

**First Aid Measures** 

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance. If symptoms persist, call a physician.

**Eye Contact** Immediately flush eyes with water for at least 15 minutes. Get medical attention. If easy to

do, remove contact lenses. Keep eye wide open while rinsing. If symptoms persist, call a

physician.

**Skin Contact** Wash off immediately with soap and plenty of water. Consult a physician if necessary. IF

ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

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

physician if necessary. If breathing is irregular or stopped, administer artificial respiration. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms persist, call a physician.

Asthma-like and/ or skin allergy-like symptoms.

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

physician. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

**Self-protection of the first aider** Remove all sources of ignition. Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and No information available.

**Effects** 

Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

#### Specific hazards arising from the chemical

Flammable. Containers may explode when heated or if contaminated with water.

#### **Explosion Data**

Sensitivity to Mechanical Impact no data available.

Sensitivity to Static Discharge Yes.

#### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

# 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

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

ignition. Use personal protective equipment as required. Keep people away from and

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

Other information DECONTAMINATION SOLUTION: Concentrated ammonia (3 - 8%), detergent (2%) and

water (90 - 95%), a solution of Union Carbide's Tergitol TMN-10 (20%) and water (80%) or a solution of 50% isopropanol, 45% water, and 5% concentrated ammonia solution(% by

Revision Date: 15-Jun-2016

weight).

**Environmental Precautions** 

**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. Vapors are heavier than air, spread

along floors and form explosive mixtures with air.

Methods and materials for containment and cleaning up

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

disposal. Decontaminate floor with decontamination solution letting stand for at least 15

minutes. Soak up with inert absorbent material.

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

## Precautions for safe handling

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 explosion-proof electrical (ventilation and lighting) equipment. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use with local exhaust ventilation. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe vapor or mist. To dissipate static electricity during transfer, ground drum and

connect to receiving container with bonding strap. Use only non-sparking tools.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away

from heat, sparks and flame. Keep containers tightly closed in a cool, well-ventilated place.

Revision Date: 15-Jun-2016

Protect from moisture.

Incompatible Products Water. Glycol ethers. Alcohols. Epoxies. Bases.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Guidelines

Chemical Name	ACGIH	OSHA	NIOSH IDLH
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL) 98-56-6	TWA: 2.5 mg/m³ F	TWA: 2.5 mg/m³ F TWA: 2.5 mg/m³ dust	
TITANIUM DIOXIDE 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m <sup>3</sup>
CHROMIC OXIDE GREEN PIGMENT 1308-38-9	TWA: 0.5 mg/m³ Cr	TWA: 0.5 mg/m³ Cr	IDLH: 25 mg/m³ Cr(III) TWA: 0.5 mg/m³ Cr
IRON (III) OXIDE 1309-37-1	TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³ fume TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction	IDLH: 2500 mg/m³ Fe dust and fume TWA: 5 mg/m³ Fe dust and fume

NIOSH IDLH: Immediately Dangerous to Life or Health

#### **Exposure controls**

Engineering Measures Persons allergic to isocyanates, and particularly those suffering from asthma or other

respiratory conditions, should not work with isocyanates.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Use personal protective equipment as required.

**Skin and Body Protection** Chemical resistant apron.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene Measures Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work

area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Liquid **Appearance** Opaque **Odor Threshold** Odor Solvent. No data available No data available 100 °F / 38 °C Flash Point pН 183 °F / 84 °C **Decomposition temperature** No data available **Boiling Point** Freezing Point Melting Point / Melting Range No data available No data available Partition coefficient: Vapor Pressure @20°C (kPa) No data available No data available **Vapor Density** No data available Density No data available

Bulk density No data available Specific Gravity 1.32

Evaporation Rate No data available Water solubility No data available

Dynamic viscosity No data available Weight per Gallon (lbs/gal): 10.97

Flammability Limits in Air

Upper 3.89 % Lower 0.34 %

# 10. STABILITY AND REACTIVITY

Reactivity

No data available

**Chemical stability** 

Stable under recommended storage conditions.

Conditions to Avoid Heat, flames and sparks.

Incompatible Materials

Water. Glycol ethers. Alcohols. Epoxies. Bases.

**Hazardous Decomposition Products** 

Thermal decomposition can lead to release of irritating gases and vapors.

# 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

Product Information The product has not been tested

**Inhalation** There is no data for this product.

**Eye Contact** There is no data for this product.

**Skin Contact** There is no data for this product.

**Ingestion** There is no data for this product.

Chemical Name Oral LD50		Dermal LD50	Inhalation LC50	
ENZENE,1-CHLORO-4 13 g/kg (Rat ) FRIFLUOROMETHYL) 98-56-6		2 mL/kg(Rabbit)	33 mg/L (Rat)4 h	
TITANIUM DIOXIDE 13463-67-7	10000 mg/kg (Rat)	N/A	N/A	
IRON (III) OXIDE 1309-37-1	10000 mg/kg (Rat)	N/A	N/A	

### Information on toxicological effects

**Symptoms** No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

MUTAGENIC EFFECTS No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA	
TITANIUM DIOXIDE	N/A	Group 2B	N/A	X	
13463-67-7					
CHROMIC OXIDE GREEN	N/A	Group 3	N/A	N/A	
PIGMENT					
1308-38-9					
IRON (III) OXIDE	N/A	Group 3	N/A	N/A	
1309-37-1		•			

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 and Health Administration of the US Department of Labor)

## 03813TUA-ULVOC - 33531 SAND VOHAP FREE ZENTHANE, 1.0 VOC, MIL-DTL-53039E, TYPE IV

Revision Date: 15-Jun-2016

X - Present

**Reproductive Toxicity** Specific target organ systemic

toxicity (single exposure)

Specific target organ systemic toxicity (repeated exposure)

No information available. No information available.

No information available.

**Chronic Toxicity** Prolonged or repeated exposure increases the risk. Avoid repeated exposure.

**Target Organ Effects** Lungs, Respiratory system. **Aspiration hazard** No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 11283 mg/kg 3066 mg/kg ATEmix (dermal) ATEmix (inhalation-dust/mist) 7882.9 mg/l

Oral LD50 12706 mg/kg (rat) Estimated 4688 mg/kg (rat) Estimated **Dermal LD50** 

Inhalation LC50 47990 mg/l (mist) (dust) mg/m3 Estimated

Inhalation LC50

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to daphnia and other aquatic invertebrates
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	N/A	N/A	3.68: 48 h Daphnia magna mg/L EC50
98-56-6			

## Persistence and degradability

No information available.

## **Bioaccumulation**

No information available.

Other adverse effects No information available

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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

261).

**US EPA Waste Number** U165 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 State	
CHROMIC OXIDE GREEN PIGMENT	Toxic
1308-38-9	Corrosive
	Ignitable

# 14. TRANSPORT INFORMATION

DOT

**UN-No** UN1263 Proper shipping name Paint Hazard class 3 **Packing Group** Ш

B1, B52, IB3, T2, TP1, TP29 Special Provisions

Description UN1263, Paint, Marine Pollutant, 3, III

**Emergency Response Guide** 

Number

**TDG** 

**UN-No** UN1263 Proper shipping name Paint **Hazard class** 3 **Packing Group** Ш

Description UN1263, Paint, Marine Pollutant, 3, III

MEX

**UN-No** UN1263 Proper shipping name Paint Hazard class 3 **Packing Group** Ш

UN1263, Paint, 3, III Description

**ICAO** 

**UN-No** UN1263 Proper shipping name Paint Hazard class 3 Ш **Packing Group** Special Provisions A3, A72

UN1263, Paint, 3, III Description

IATA

UN-No UN1263 Hazard class 3 **Packing Group** Ш **ERG Code** 

**Special Provisions** A3, A72, A192

IMDG/IMO

UN1263 **UN-No** Hazard class 3 **Packing Group** Ш F-E, S-E **EmS-No** 

**Special Provisions** 163, 223, 367 955

RID

**UN-No** UN1263 Proper shipping name Paint **Hazard class** 3 **Packing Group** Ш **Classification Code** 

Description UN1263, Paint, Environmentally Hazardous, 3, III

ADR/RID

**UN-No** UN1263 Proper shipping name Paint Hazard class 3 **Packing Group** Ш **Classification Code** F1 **Tunnel restriction code** (D/E)

**Special Provisions** 163, 640E, 650, 367

**Description** UN1263, Paint, Environmentally Hazardous, 3, III, (D/E)

ADR/RID-Labels 3

ADN

Proper shipping name Paint Hazard class 3
Packing Group III
Classification Code F1

Special Provisions 163, 640E, 650

**Description** UN1263, Paint, Environmentally Hazardous, 3, III

Hazard Labels 3 Limited Quantity (LQ) 5 L Ventilation VE01

## 15. REGULATORY INFORMATION

**International Inventories** 

Complies **TSCA** DSL/NDSL Complies Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies **KECL** Complies **PICCS** Complies **AICS** 

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### **US 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 No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

#### **CAA (Clean Air Act)**

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants This product contains the following HAPs:

Chemical Name	CAS No	Hazardous air pollutants (HAPs) content
CHROMIC OXIDE GREEN PIGMENT	1308-38-9	Present

#### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous

	Quantities			Substances
CHROMIC OXIDE GREEN	N/A	X	N/A	N/A
PIGMENT				

## **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

## State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	CAS No	California Proposition 65
TITANIUM DIOXIDE	13463-67-7	Carcinogen

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

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
BENZENE,1-CHLORO-4	N/A	Х	N/A	N/A	X
(TRIFLUOROMETHYL)					
TITANIUM DIOXIDE	X	Х	X	N/A	X

# **International Regulations**

## Mexico - Grade

Moderate risk, Grade 2

Chemical Name	Carcinogenic Status	Exposure Limits
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	N/A	Mexico: TWA 2.5 mg/m <sup>3</sup>
TITANIUM DIOXIDE	N/A	Mexico: TWA 10 mg/m <sup>3</sup> Mexico: STEL 20 mg/m <sup>3</sup>
CHROMIC OXIDE GREEN PIGMENT	N/A	Mexico: TWA 0.5 mg/m <sup>3</sup>
IRON (III) OXIDE	N/A	Mexico: TWA 5 mg/m <sup>3</sup> Mexico: STEL 10 mg/m <sup>3</sup>

# 16. OTHER INFORMATION

NFPA Health Hazard 0 Flammability 2 Instability 0 Physical and Chemical Hazards -



Health Hazard 2 \* Flammability 2 Physical Hazard 1 Personal protection X

Chronic Hazard Star Legend \* Chronic Health Hazard

Issuing Date: 22-Dec-2011

03813TUA-ULVOC - 33531 SAND VOHAP FREE ZENTHANE, 1.0 VOC, MIL-DTL-53039E, TYPE IV

Revision Date: 15-Jun-2016

Revision Date: Revision Note 15-Jun-2016

No information available

# **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.

end