

# SAFETY DATA SHEET

**Issuing Date:** 28-Feb-2012 **Revision Date:** 16-Jan-2020

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

Product Code: 08609TUZ-ULVOC Product Name: TAN 686A, 33446 VHF 1.0 VOC ZENTHANE®,

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)

Skin Corrosion/Irritation	Category 2
Flammable Liquids	Category 3

#### **Label Elements**

#### **Emergency Overview**

#### WARNING

# Hazard Statements

Causes skin irritation Flammable liquid and vapor





Appearance Opaque Physical state Liquid Odor Solvent

## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Keep away from heat/sparks/open flames/hot surfaces. - No smoking

keep away from near/sparks/open frames/not 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

If skin irritation occurs: Get medical advice/attention

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

Wash contaminated clothing before reuse

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

Revision Date: 16-Jan-2020

## **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

# **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
- · Toxic to aquatic life

## 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
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	98-56-6	30% - 40%	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F
HOMOPOLYMER OF HEXAMETHYLENE	28182-81-2	10% - 20%	N/A	N/A
DIISOCYANATE				
AROMATIC HYDROCARBON	64742-94-5	1% - 5%	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.

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.

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

**Ingestion** Do NOT induce vomiting.

**Self-protection of the first aider** Remove all sources of ignition.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and

**Effects** 

No information available.

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. Avoid breathing vapors or mists.

Revision Date: 16-Jan-2020

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

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). 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. 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	IDLH: 250 mg/m³ F
TITANIUM DIOXIDE 13463-67-7	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m³ TWA: 2.4 mg/m³ CIB 63 fine TWA: 0.3 mg/m³ CIB 63 ultrafine, including engineered nanoscale

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

Revision Date: 16-Jan-2020

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

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

Bulk density No data available Specific Gravity 1.34

Evaporation Rate No data available Water solubility No data available

Dynamic viscosity No data available Weight per Gallon (lbs/gal): 11.14

Flammability Limits in Air

 Upper
 4.05 %

 Lower
 0.35 %

# 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
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL) 98-56-6	= 13 g/kg(Rat)	> 2 mL/kg(Rabbit)	= 33 mg/L (Rat)4 h
TITANIUM DIOXIDE 13463-67-7	> 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 MUTAGENIC EFFECTS**No information available.
No information available.

**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

Revision Date: 16-Jan-2020

carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
TITANIUM DIOXIDE	N/A	Group 2B	N/A	X
13463-67-7				

## 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)

X - Present

Reproductive Toxicity
Specific target organ systemic
toxicity (single exposure)
Specific target organ systemic

No information available.

No information available.

No information available.

toxicity (repeated exposure)

Chronic Toxicity

Prolonged or repeated exposure increases the risk. Eyes, Lungs, Respiratory system, Skin.

Target Organ EffectsEyes, Lungs, Respiratory systeAspiration hazardNo information available.

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 11653 mg/kg
ATEmix (dermal) 3007 mg/kg

Revision Date: 16-Jan-2020

ATEmix (inhalation-dust/mist) 7524.9 mg/l

Oral LD50 11848 mg/kg (rat) Estimated Dermal LD50 4695 mg/kg (rat) Estimated

Inhalation LC50 47135 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
ſ	BENZENE,1-CHLORO-4	N/A	11.5 - 15.8: 48 h Lepomis	3.68: 48 h Daphnia magna mg/L
	(TRIFLUOROMETHYL)		macrochirus mg/L LC50 static 3: 96	EC50
I	98-56-6		h Danio rerio mg/L LC50 semi-static	

## Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL) 98-56-6	3.7
AROMATIC HYDROCARBON 64742-94-5	6.1

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 D001

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

# 14. TRANSPORT INFORMATION

DOT

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

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

**Description** UN1263, Paint, 3, III

Emergency Response Guide 128

Number

<u>TDG</u>

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

Revision Date: 16-Jan-2020

UN1263, Paint, 3, III Description

**MEX** 

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

Description UN1263, Paint, 3, III

**ICAO** 

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

Description UN1263, Paint, 3, III

IATA

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

A3, A72, A192 **Special Provisions** 

IMDG/IMO

UN-No UN1263 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** F1

**Description** UN1263, Paint, 3, III

ADR/RID

UN1263 **UN-No** 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, 3, III, (D/E)

ADR/RID-Labels

ADN

Proper shipping name Paint **Hazard class** Ш **Packing Group** Classification Code F1

**Special Provisions** 163, 640E, 650 Description UN1263, Paint, 3, III

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

Revision Date: 16-Jan-2020

# 15. REGULATORY INFORMATION

**International Inventories** 

Complies **TSCA** Complies **DSL/NDSL EINECS/ELINCS** Complies Complies **ENCS IECSC** Complies **KECL** Complies 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 HazardYesChronic Health HazardNoFire HazardYesSudden Release of Pressure HazardNoReactive HazardNo

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

This product contains the following HAPs:

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

### **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

# 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

Revision Date: 16-Jan-2020

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

### **16. OTHER INFORMATION**

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



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

Chronic Hazard Star Legend \* Chronic Health Hazard

**Issuing Date:** 28-Feb-2012 **Revision Date:** 16-Jan-2020

**Revision Note** 

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.

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