

# SAFETY DATA SHEET

Issuing Date: 01-Mar-2012 Revision Date: 16-Feb-2015 Revision Number: 1

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

Product Code: 08664TUZ-ULVOC Product Name: 30372 TAN VHF 1.0 VOC ZENTHANE,

MIL-DTL-53039E, TYPE IV

Hentzen Coatings, Inc. 6937 West Mill Road, Milwaukee, WI 53218-1225

Recommended use of the chemical and restrictions on use

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

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

Revision Date: 16-Feb-2015

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

Chemical Name	CAS No	Weight-%	ACGIH	OSHA
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE	28182-81-2	10% - 20%	N/A	N/A
AROMATIC HYDROCARBON	64742-94-5	1% - 5%	N/A	N/A
BARIUM SULFATE	7727-43-7		TWA: 5 mg/m³ inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica	dust TWA: 5 mg/m³ respirable
HEXAMETHYLENE DIISOCYANATE	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-Feb-2015

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.

Revision Date: 16-Feb-2015

## 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 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>
BARIUM SULFATE 7727-43-7	TWA: 5 mg/m³ inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust
CHROMIC OXIDE 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

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

OdorSolvent.Odor ThresholdNo data availablepHNo data availableFlash Point100 °F / 38 °CDecomposition temperatureNo data availableBoiling Point278 °F / 137 °C

08664TUZ-ULVOC - 30372 TAN VHF 1.0 VOC ZENTHANE, MIL-DTL-53039E, TYPE IV

Melting Point / Melting RangeNo data availableFreezing PointNo data availableVapor Pressure @20°C (kPa)No data availablePartition coefficient:No data availableVapor DensityNo data availableDensityNo data available

Bulk density No data available Specific Gravity 1.36

Evaporation Rate No data available Water solubility No data available

Dynamic viscosity No data available Weight per Gallon (lbs/gal): 11.35

Flammability Limits in Air

**Upper** 3.97 % **Lower** 0.35 %

Revision Date: 16-Feb-2015

# 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 No information available.

MUTAGENIC EFFECTS No information available.

08664TUZ-ULVOC - 30372 TAN VHF 1.0 VOC ZENTHANE, MIL-DTL-53039E, TYPE IV

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

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

Revision Date: 16-Feb-2015

carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
TITANIUM DIOXIDE	N/A	Group 2B	N/A	X
13463-67-7				
CHROMIC OXIDE	N/A	Group 3	N/A	N/A
1308-38-9		*		

#### 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.

toxicity (repeated exposure)

**Chronic Toxicity** 

**Target Organ Effects** 

Prolonged or repeated exposure increases the risk.

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

Respiratory system, Skin, No information available.

No information available.

No information available.

**Aspiration hazard** Numerical measures of toxicity - Product Information

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

4907 mg/kg ATEmix (oral) ATEmix (dermal) 2027 mg/kg ATEmix (inhalation-dust/mist) 17.4 mg/l

Oral LD50 20144 mg/kg (rat) Estimated 4997 mg/kg (rat) Estimated **Dermal LD50** 

# 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.

Chemical Name	Partition coefficient
AROMATIC HYDROCARBON	6.1
64742-94-5	

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

08664TUZ-ULVOC - 30372 TAN VHF 1.0 VOC ZENTHANE, MIL-DTL-53039E, TYPE IV

,

Revision Date: 16-Feb-2015

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

U165 U239

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
7727-43-7	
CHROMIC OXIDE	Toxic
1308-38-9	Corrosive
	Ignitable

# 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

TDG

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

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

MEX

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

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

**ICAO** 

UN-NoUN1263Proper shipping namePaintHazard class3Packing GroupIIISpecial ProvisionsA3, A72

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

**ICAO** 

UN1263
Proper shipping name Paint

Revision Date: 16-Feb-2015

Hazard class 3
Packing Group III
Special Provisions A3, A72

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

IMDG/IMO

 UN-No
 UN1263

 Proper shipping name
 Paint

 Hazard class
 3

 Packing Group
 III

 EmS-No
 F-E, S-E

 Special Provisions
 163, 223, 955

 Description
 UN1263, Paint, 3, III

RID

UN-NoUN1263Proper shipping namePaintHazard class3Packing GroupIIIClassification CodeF1

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

ADR/RID

UN-NoUN1263Proper shipping namePaintHazard class3Packing GroupIIIClassification CodeF1Tunnel restriction code(D/E)

Special Provisions (D/E)
163, 640E, 650

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

Limited Quantity (LQ) 5 L Ventilation VE01

# 15. REGULATORY INFORMATION

**International Inventories** 

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

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

# 08664TUZ-ULVOC - 30372 TAN VHF 1.0 VOC ZENTHANE, MIL-DTL-53039E, TYPE IV

Revision Date: 16-Feb-2015

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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	SARA 313 - Threshold Values %
CHROMIC OXIDE	1308-38-9	1.0

## 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)

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 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 Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
CHROMIC OXIDE	N/A	X	N/A	N/A

## **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 (TRIFLUOROMETHYL)	N/A	Х	Х	N/A	Х
TITANIUM DIOXIDE	X	X	Х	N/A	X

BARIUM SULFATE	X	X	X	N/A	X
CHROMIC OXIDE	X	X	X	Χ	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	N/A	Mexico: TWA 0.5 mg/m <sup>3</sup>	

# **16. OTHER INFORMATION**

Health Hazard 0 NFPA

Flammability 2 Instability 0 **Physical and Chemical** 

Revision Date: 16-Feb-2015

Hazards -

**NFPA** Rating



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

Chronic Hazard Star Legend

\* Chronic Health Hazard

**Issuing Date: Revision Date:**  01-Mar-2012 16-Feb-2015

**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.

end