

# SAFETY DATA SHEET

Issuing Date: 22-Dec-2011 Revision Date: 21-Oct-2016 **Revision Number: 1.1** 

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

Product Code: 04909RUA-ULVOC Product Name: 31136 A/C RED 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 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

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#### **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 if swallowed
- · 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	5% - 10%	N/A	N/A
CHROME, NICKEL, ANTIMONY TITANIUM	68186-90-3	5% - 10%		TWA: 0.5 mg/m <sup>3</sup> Sb TWA:
DIOXIDE PIGMENT			0.5 mg/m <sup>3</sup> Cr	0.5 mg/m <sup>3</sup> Cr
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.

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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	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F	
(TRIFLUOROMETHYL)			
98-56-6			
CHROME, NICKEL, ANTIMONY	TWA: 0.5 mg/m <sup>3</sup> Sb TWA: 0.5		IDLH: 50 mg/m <sup>3</sup> Sb IDLH: 25 mg/m <sup>3</sup>
TITANIUM DIOXIDE PIGMENT	mg/m³ Cr	mg/m³ Cr	Cr(III)
68186-90-3			TWA: 0.5 mg/m³ Sb TWA: 0.5
			mg/m³ Cr
IRON (III) OXIDE	TWA: 5 mg/m³ respirable	TWA: 10 mg/m³ fume	IDLH: 2500 mg/m <sup>3</sup> Fe dust and
1309-37-1	particulate matter	TWA: 15 mg/m³ total dust	fume
		TWA: 5 mg/m³ respirable fraction	TWA: 5 mg/m³ Fe dust and fume
ORGANIC TIN COMPOUND	STEL: 0.2 mg/m <sup>3</sup> Sn	TWA: 0.1 mg/m <sup>3</sup> Sn	IDLH: 25 mg/m <sup>3</sup> Sn
77-58-7	TWA: 0.1 mg/m <sup>3</sup> Sn		TWA: 0.1 mg/m³ except Cyhexatin
	S*		Sn
HEXAMETHYLENE	TWA: 0.005 ppm	N/A	Ceiling: 0.020 ppm 10 min
DIISOCYANATE MONOMER			Ceiling: 0.140 mg/m <sup>3</sup> 10 min
822-06-0			TWA: 0.005 ppm
			TWA: 0.035 mg/m <sup>3</sup>

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 Solvent. **Odor Threshold** No data available No data available **Flash Point** 100 °F / 38 °C 183 °F / 84 °C **Decomposition temperature** No data available **Boiling Point** 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** No data available No data available **Density** 

Bulk density No data available Specific Gravity 1.18

Evaporation Rate No data available Water solubility No data available

**Dynamic viscosity** No data available **Weight per Gallon (lbs/gal):** 9.79

Flammability Limits in Air

**Upper** 3.81 %

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**Lower** 0.33 %

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## 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
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE 28182-81-2	N/A	N/A	= 18500 mg/m³ ( Rat ) 1 h
CHROME,NICKEL,ANTIMONY TITANIUM DIOXIDE PIGMENT 68186-90-3	> 10000 mg/kg(Rat)	N/A	N/A
IRON (III) OXIDE 1309-37-1	> 10000 mg/kg (Rat)	N/A	N/A
ORGANIC TIN COMPOUND 77-58-7	= 45 mg/kg ( Rat )	= 630 mg/kg (Rabbit)	N/A
HEXAMETHYLENE DIISOCYANATE MONOMER 822-06-0	= 710 μL/kg (Rat)	= 593 mg/kg ( Rabbit )	= 0.06 mg/L (Rat) 4 h

## 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
CHROME, NICKEL, ANTIMO	N/A	Group 3	N/A	N/A

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NY TITANIUM DIOXIDE PIGMENT 68186-90-3				
IRON (III) OXIDE 1309-37-1	N/A	Group 3	N/A	N/A

Legend:

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Reproductive Toxicity** Specific target organ systemic

No information available.

toxicity (single exposure)

No information available.

Specific target organ systemic toxicity (repeated exposure)

No information available.

**Chronic Toxicity Target Organ Effects**  Prolonged or repeated exposure increases the risk. May cause adverse liver effects. Central Vascular System (CVS), Eyes, Gastrointestinal tract (GI), Liver, Respiratory system,

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Skin.

**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) 3506 mg/kg ATEmix (dermal) 2507 mg/kg ATEmix (inhalation-dust/mist) 14.4 mg/l

Oral LD50 11587 mg/kg (rat) Estimated 4776 mg/kg (rat) Estimated **Dermal LD50** 

Inhalation LC50 51775 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) 98-56-6	N/A	N/A	3.68: 48 h Daphnia magna mg/L EC50
HEXAMETHYLENE DIISOCYANATE MONOMER 822-06-0	N/A	26.1: 96 h Brachydanio rerio mg/L LC50 static	N/A

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

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

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).

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US EPA Waste Number

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
CHROME, NICKEL, ANTIMONY TITANIUM DIOXIDE PIGMENT	Toxic
68186-90-3	Corrosive
	Ignitable
ORGANIC TIN COMPOUND	Toxic
77-58-7	

## 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

<u>MEX</u>

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

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

**ICAO** 

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

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

<u>IATA</u>

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

**Special Provisions** A3, A72, A192

IMDG/IMO

 UN-No
 UN1263

 Hazard class
 3

 Packing Group
 III

 EmS-No
 F-E, S-E

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

<u>RID</u>

UN-No UN1263
Proper shipping name Paint
Hazard class 3
Packing Group III
Classification Code F1

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

ADR/RID

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

 Special Provisions
 163, 640E, 650, 367

 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

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

## 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies **DSL/NDSL** Complies Complies **EINECS/ELINCS** Complies **ENCS IECSC** Complies Complies **KECL PICCS** Complies 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 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 %
CHROME, NICKEL, ANTIMONY TITANIUM DIOXIDE	68186-90-3	1.0
PIGMENT		

### SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardNoFire HazardYesSudden Release of Pressure HazardNoReactive HazardNo

#### **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
CHROME, NICKEL, ANTIMONY TITANIUM DIOXIDE	68186-90-3	Present
PIGMENT		

#### **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
CHROME,NICKEL,ANTIMO NY TITANIUM DIOXIDE PIGMENT	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

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ (reportable quantity)
HEXAMETHYLENE	100 lb	N/A	RQ 100 lb final RQ
DIISOCYANATE MONOMER			RQ 45.4 kg final RQ

#### 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
BENZENE,1-CHLORO-4	N/A	X	N/A	N/A	X
(TRIFLUOROMETHYL)					
CHROME, NICKEL, ANTIMO	N/A	X	X	Х	Х
NY TITANIUM DIOXIDE					
PIGMENT					
IRON (III) OXIDE	Х	Х	X	N/A	Х

### 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>
CHROME,NICKEL,ANTIMONY TITANIUM DIOXIDE 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>
ORGANIC TIN COMPOUND	N/A	Mexico: TWA 0.1 mg/m <sup>3</sup> Mexico: STEL 0.2 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

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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. 04909RUA-ULVOC

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