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SAFETY DATA SHEET

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

Product Code: 08624AUZ-ULVOC

Product Name: 36231 AIRCRAFT GRAY VOHAPS FREE
ZENTHANE MIL-DTL-53039E, TYPE IV

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

Company Phone Number: 1-414-353-4200

Recommended use of the chemical and restrictions on use

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

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
TITANIUM DIOXIDE	13463-67-7	10% - 20%	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE	28182-81-2	10% - 20%	N/A	N/A
CARBON BLACK	1333-86-4	0% - 1%	TWA: 3 mg/m ³ inhalable fraction	TWA: 3.5 mg/m ³
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. 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 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. 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 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 the 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. 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/m ³ F	TWA: 2.5 mg/m ³ F TWA: 2.5 mg/m ³ dust	
TITANIUM DIOXIDE 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust	IDLH: 5000 mg/m ³
CARBON BLACK 1333-86-4	TWA: 3 mg/m ³ inhalable fraction	TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH

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
pH	No data available	Flash Point	100 °F / 38 °C
Decomposition temperature	No data available	Boiling Point	278 °F / 137 °C
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	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):	11.02
		Flammability Limits in Air	
		Upper	3.95 %
		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
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.
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	ACGIH	IARC	NTP	OSHA
TITANIUM DIOXIDE 13463-67-7	N/A	Group 2B	N/A	X
CARBON BLACK 1333-86-4	A3	Group 2B	N/A	X

Legend:

- ACGIH (American Conference of Governmental Industrial Hygienists)
- A3 - Animal Carcinogen
- 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 No information available.

Specific target organ systemic toxicity (single exposure) No information available.
Specific target organ systemic toxicity (repeated exposure) 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) 10571 mg/kg
ATEmix (dermal) 2864 mg/kg
ATEmix (inhalation-dust/mist) 7378.4 mg/l
Oral LD50 18421 mg/kg (rat) Estimated
Dermal LD50 4622 mg/kg (rat) Estimated
Inhalation LC50 47162 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

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

14. TRANSPORT INFORMATION

DOT Not regulated
UN-No UN1263
Hazard class 3
Packing Group III
Special Provisions B1, B52, IB3, T2, TP1, TP29
Emergency Response Guide Number 128

TDG

UN-No UN1263
 Hazard class 3
 Packing Group III

MEX

UN-No UN1263
 Hazard class 3
 Packing Group III

ICAO

UN-No UN1263
 Hazard class 3
 Packing Group III
 Special Provisions A3, A72

ICAO

UN-No UN1263
 Proper shipping name Paint
 Hazard class 3
 Packing Group III
 Special Provisions A3, A72, A192
 Description UN1263, Paint, 3, III

IMDG/IMO

UN-No UN1263
 Hazard class 3
 Packing Group III
 EmS-No F-E, S-E
 Special Provisions 163, 223, 367 955

RID

UN-No UN1263
 Hazard class 3
 Packing Group III
 Classification Code F1

ADR/RID

UN-No UN1263
 Hazard class 3
 Packing Group III
 Classification Code F1
 Tunnel restriction code (D/E)
 Special Provisions 163, 640E, 650, 367
 ADR/RID-Labels 3

ADN

Hazard class 3
 Packing Group III
 Classification Code F1
 Special Provisions 163, 640E, 650
 Hazard Labels 3
 Limited Quantity (LQ) 5 L
 Ventilation VE01

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
 DSL/NDSL Complies
 EINECS/ELINCS Complies
 ENCS Complies

IECSC Complies
 KECL Complies
 PICCS Complies
 AICS Complies

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

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

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
CARBON BLACK	1333-86-4	Carcinogen

U.S. State Right-to-Know Regulations

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

CARBON BLACK	X	X	X	X	X
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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 ³
TITANIUM DIOXIDE	N/A	Mexico: TWA 10 mg/m ³ Mexico: STEL 20 mg/m ³
CARBON BLACK	N/A	Mexico: TWA 3.5 mg/m ³ Mexico: STEL 7 mg/m ³

16. OTHER INFORMATION

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

NFPA Rating



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. 08624AUZ-ULVOC

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