



# SAFETY DATA SHEET

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Version: 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

**Product Code:** 08628KUZ-ULVOC  
**Product Name:** 37038 AIRCRAFT BLACK 1.0 VOC ZENTHANE MIL-DTL-53039E, TYPE IV

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Coating  
**Uses advised against** No information available

### 1.3 Details of the supplier of the safety data sheet

**Manufacturer**  
Hentzen Coatings Incorporated  
6937 West Mill Road  
Milwaukee, Wisconsin, USA  
53218-1225

For further information, please contact:

**Contact Point** 001 414 353 4200  
**E-mail Address** coatings@hentzen.com

### 1.4 Emergency telephone number

<b>Emergency telephone - §45 - (EC)1272/2008</b>	
<b>Europe</b>	<b>CHEMTREC (USA) 001 800 424 9300</b>

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

The preparation is classified as dangerous in accordance with Directive 1999/45/EC

#### **Classification**

For the full text of the R-phrases mentioned in this Section, see Section 16

R10 - T+;R27

#### **Most Important Hazards**

Flammable  
Very toxic in contact with skin

### 2.2 Label Elements



#### **Classification**

T+ - Very toxic

**R-phrase(s)**

R10 - Flammable  
R27 - Very toxic in contact with skin

**S-phrase(s)**

S 7 - Keep container tightly closed  
S 9 - Keep container in a well-ventilated place  
S16 - Keep away from sources of ignition - No smoking  
S33 - Take precautionary measures against static discharges

Contains BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

Chemical Name	EC-No	CAS-No	Weight	Classification (67/548)	Classification (Reg. 1272/2008)	REACH Registration Number
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	202-681-1	98-56-6	42.8674	-		no data available
AROMATIC HYDROCARBON	265-198-5	64742-94-5	4.87945	Xn;R65	Asp. Tox. 1 H304 H	no data available

For the full text of the R-phrases mentioned in this Section, see Section 16

3.2

Mixtures

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**General advice**

Immediate medical attention is required Show this material safety data sheet to the doctor in attendance. If symptoms persist, call a physician

**Eye Contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes Keep eye wide open while rinsing Call a physician immediately If symptoms persist, call a physician

**Skin Contact**

Wash off immediately with soap and plenty of water. Consult a physician is necessary. For severe exposure, remove clothing and use safety shower. Seek medical attention.

**Ingestion**

Never give anything by mouth to an unconscious person Do NOT induce vomiting Call a physician or Poison Control Center immediately Drink plenty of water Clean mouth with water and afterwards drink plenty of water Consult a physician

**Inhalation**

Immediate medical attention is required If not breathing, give artificial respiration Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation 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 Asthmatic type symptoms can be immediate or deferred up to several hours

**Protection of First-aiders**

Remove all sources of ignition Use personal protective equipment

#### 4.2 Most important symptoms and effects, both acute and delayed

**Main Symptoms** No information available

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician** Treat symptomatically

**5. FIRE-FIGHTING MEASURES**

**5.1 Extinguishing media**

**Suitable Extinguishing Media**

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

**Extinguishing media which shall not be used for safety reasons**

No information available

**5.2 Special hazards arising from the substance or mixture**

**Special Hazard**

None in particular

**5.3 Advice for fire-fighters**

**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition Evacuate personnel to safe areas Ensure adequate ventilation Use personal protective equipment Keep people away from and upwind of spill/leak Avoid breathing vapors or mists Ventilate the area

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).

**6.2 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

**6.3 Methods and material for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Ensure adequate ventilation Keep away from open flames, hot surfaces and sources of ignition Take precautionary measures against static discharges Use only in an area containing flame proof equipment To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded Use only in area provided with appropriate exhaust ventilation Wear personal protective equipment Do not breathe vapors or spray mist Use bonding and grounding when transferring materials Use non-sparking tools and equipment

**7.2 Conditions for safe storage, including any incompatibilities**

Keep tightly closed in a dry and cool place Keep in properly labeled containers Keep away from heat and sources of ignition Keep containers tightly closed in a cool, well-ventilated place Protect the container from moisture. If moisture enters the container, do not reseal, pressure can build-up and cause container to burst

**7.3 Specific end uses**

Specific use(s) Coating

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Control parameters**

**Exposure limits**

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL) 98-56-6					TWA: 1 mg/m <sup>3</sup>
Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL) 98-56-6		TWA: 2.5 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup>		TWA: 2.5 mg/m <sup>3</sup>
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL) 98-56-6			NDSch: 3 mg/m <sup>3</sup> NDS: 1 mg/m <sup>3</sup>	TWA: 0.6 mg/m <sup>3</sup> STEL: 1.8 mg/m <sup>3</sup>	

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

**8.2 Exposure controls**

**Engineering Measures**

Air sampling should be done to measure airborne concentrations of the monomer of Hexamethylene Diisocyanate (HDI), the HDI polyisocyanate and organic solvents. Good industrial hygiene practice dictates that when isocyanate-containing coatings are spray applied, some form of respiratory protection should be worn. During the spray application of these coatings, the use of a supplied-air respirator (either positive pressure or continuous flow type) is mandatory when one or more of the following conditions exist: the airborne isocyanate concentrations are not known; or the airborne isocyanate concentrations exceed ten times the exposure limits; or no airborne solvent concentration exceeds its odor threshold; or spraying is performed in a confined space. (See OSHA Confined Space Standard 29 CFR 1910.146.) A properly fitted air-purifying respirator (combination organic vapor and particulate), proven by test to be effective in isocyanate-containing spray paint environments the airborne isocyanate concentrations are known to be below ten times the exposure limits; at least one solvent in the coating has a published odor threshold; and at least one airborne solvent concentration is lower than its TLV but higher than its odor threshold. The odor of the solvent will then alert the respirator wearer to any breakdown of the respirator filters. FOR NON-SPRAY OPERATIONS: the same precautions a local exhaust hood should be used to remove fumes during the welding or cutting operation. a fresh air supplied respirator should be worn during welding or cutting If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

**Personal protective equipment**

**Eye Protection** Tightly fitting safety goggles

<b>Hand Protection</b>	Protective gloves
<b>Skin and Body Protection</b>	Impervious gloves Antistatic boots Wear fire/flamm resistant/retardant clothing Boots Apron Impervious clothing
<b>Respiratory Protection</b>	In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit
<b>Hygiene Measures</b>	When using, do not eat, drink or smoke Provide regular cleaning of equipment, work area and clothing
<b>Environmental Exposure Controls</b>	No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical State @20°C	Liquid Solvent	Appearance	Opaque
<b>Odor</b>			
<u>Property</u>	<u>Values</u>		<u>Note</u>
<b>pH VALUE</b>			no data available
<b>Melting/freezing point</b>			No data available
<b>Boiling Point</b>	137 °C / 278 °F		
<b>Flash Point</b>	38 °C / 100 °F		(based on components)
<b>Evaporation rate</b>			no data available
<b>Flammability (solid, gas)</b>			No data available
<b>Flammability Limits in Air</b>			
upper flammability limit	4.53		
lower flammability limit	0.39		
<b>Vapor pressure</b>			no data available
<b>Vapor density</b>			no data available
<b>Relative density</b>	1.25		
<b>Water solubility</b>			no data available
<b>Solubility in other solvents</b>			no data available
<b>Partition coefficient: n-octanol/water</b>			no data available
<b>Autoignition temperature</b>			No data available
<b>Decomposition temperature</b>			no data available
<b>Viscosity</b>			no data available

### 9.2 Other information

**VOC Content** 47.8 %

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Not applicable

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

None under normal use conditions

### 10.4 Conditions to avoid

Heat, flames and sparks

**10.5 Incompatible materials**

None in particular

**10.6 Hazardous decomposition products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>). Thermal decomposition can lead to release of irritating gases and vapors. Decomposition of Benzene 1-chloro4-(trifluoromethyl) can produce Cl and FI gases

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Product Information**

**Acute Toxicity**

Long-term repeated exposure to Xylene may result in hearing loss

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

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

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

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

**LD50 Oral:** 19425 mg/kg (rat) Estimated  
**LD50 Dermal:** 578 mg/kg (rat) Estimated  
**LC50 Inhalation:** 41553 mg/l (mist) (dust) mg/m<sup>3</sup> Estimated  
**LC50 Inhalation:**

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	13 g/kg ( Rat )	2706 mg/kg ( Rabbit )	33 mg/L ( Rat ) 4 h
AROMATIC HYDROCARBON	5000 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	590 mg/m <sup>3</sup> ( Rat ) 4 h

**Chronic Toxicity**

**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)

**Sensitization** No information available

**Target Organ Effects** Eyes Gastrointestinal tract (GI) Liver Lymphatic System Respiratory system Skin

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	-	11.5-15.8: 48 h Lepomis macrochirus mg/L LC50 static	-	3.68: 48 h Daphnia magna mg/L EC50
AROMATIC HYDROCARBON	2.5: 72 h Skeletonema costatum mg/L EC50	19: 96 h Pimephales promelas mg/L LC50 static 2.34: 96 h Oncorhynchus mykiss mg/L LC50 1740: 96 h Lepomis macrochirus mg/L LC50 static 45: 96 h Pimephales promelas mg/L LC50 flow-through 41: 96 h Pimephales promelas mg/L LC50	-	0.95: 48 h Daphnia magna mg/L EC50

#### 12.2 Persistence and degradability

No information available.

#### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

No information available

#### 12.6 Other adverse effects

No information available.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

##### Waste from Residues / Unused Products

Dispose of in accordance with local regulations

##### Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal

##### Other information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used

### 14. TRANSPORT INFORMATION

#### IMDG/IMO

##### 14.1 UN-Number

UN1263

##### 14.2 Proper Shipping Name

Paint

##### 14.3 Hazard Class

3

<b>14.4 Packing group</b>	III
<b>Description</b>	UN1263, Paint, 3, III
<b>14.5 Environmental Hazards</b>	None
<b>14.6 Special Provisions</b>	
<b>EmS No.</b>	F-E, S-E
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available

**RID**

<b>14.1 UN-Number</b>	UN1263
<b>14.2 Proper Shipping Name</b>	Paint
<b>14.3 Hazard Class</b>	3
<b>14.4 Packing group</b>	III
<b>Description</b>	UN1263, Paint, 3, III
<b>14.5 Environmental Hazards</b>	None
<b>14.6 Special Provisions</b>	
<b>Classification Code</b>	F1

**ADR/RID**

<b>14.1 UN-Number</b>	UN1263
<b>14.2 Proper Shipping Name</b>	Paint
<b>14.3 Hazard Class</b>	3
<b>14.4 Packing group</b>	III
<b>Description</b>	UN1263, Paint, 3, III, (D/E)
<b>14.5 Environmental Hazards</b>	None
<b>14.6 Special Provisions</b>	
<b>Classification Code</b>	F1
<b>ADR/RID-Labels</b>	3
<b>Tunnel Restriction Code</b>	(D/E)

**ICAO**

<b>14.1 UN-Number</b>	UN1263
<b>14.2 Proper Shipping Name</b>	Paint
<b>14.3 Hazard Class</b>	3
<b>14.4 Packing group</b>	III
<b>Description</b>	UN1263, Paint, 3, III
<b>14.5 Environmental Hazards</b>	None
<b>14.6 Special Provisions</b>	
<b>Special Provisions</b>	None

**ICAO/IATA**

<b>14.1 UN-Number</b>	UN1263
<b>14.2 Proper Shipping Name</b>	Paint
<b>14.3 Hazard Class</b>	3
<b>14.4 Packing group</b>	III
<b>Description</b>	UN1263, Paint, 3, III
<b>14.5 Environmental Hazards</b>	None
<b>14.6 Special Provisions</b>	
<b>ERG Code</b>	3L

**15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**International Inventories**

All of the components in the product are on the following Inventory lists: Canada (DSL/NDSL).



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

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
AICS - Australian Inventory of Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances

#### 15.2 Chemical Safety Assessment

No information available

### 16. OTHER INFORMATION

#### Full text of R-phrases referred to under sections 2 and 3

R27 - Very toxic in contact with skin  
R65 - Harmful: may cause lung damage if swallowed  
R10 - Flammable

Issuing Date: 22-Dec-2011  
Revision Date: 15-Oct-2013  
Revision Note: Not applicable.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### DISCLAIMER

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