

**Fragrance Delivery Technologies Ltd.**

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# SAFETY DATA SHEET

Issuing Date 07-Aug-2013

Revision Date 01-Aug-2017

Revision Number 2

## Section 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product Name** VIVA!e Cartridge Adore

Contains D-Limonene, Coumarin

Contains D-Limonene, Cinnamaldehyde, Coumarin

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

**Recommended Use** Air freshener

**Uses advised against** No information available

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

#### **Company**

Fragrance Delivery Technologies, LTD

P.O.Box 262800

Dubai

United Arab Emirates

Tel: +9714 887 0577

Email: info@oxygenpowered.com

#### **For further information, please contact**

**E-mail Address** No information available.

### 1.4. Emergency telephone number

**Emergency Telephone Number** 303-389-1271

855-259-2437

<b>Europe</b>	112
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## Section 2. Hazards identification

### 2.1. - Classification of the substance or mixture

#### **REGULATION (EC) No 1272/2008**

Aspiration Toxicity	Category 1
Skin Corrosion/Irritation	Category 2
Skin Sensitization	Category 1
Acute Aquatic Toxicity	Category 1
Chronic Aquatic Toxicity	Category 1

**Physical Hazards**

Flammable liquids

Category 3

**2.2. Label Elements****Signal Word****Danger****Hazard Statements**

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H410 - Very toxic to aquatic life with long lasting effects

Contains Eugenol, .alpha.-Pinene, 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-

**Precautionary Statements - EU (§28, 1272/2008)**

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 - Keep container tightly closed

P273 - Avoid release to the environment

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician

P331 - Do NOT induce vomiting

**Precautionary Statements**

P270 - Do not eat, drink or smoke when using this product

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell

P330 - Rinse mouth

P264 - Wash face, hands and any exposed skin thoroughly after handling

P332 + P313 - If skin irritation occurs: Get medical advice/ attention

P362 - Take off contaminated clothing and wash before reuse

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P272 - Contaminated work clothing should not be allowed out of the workplace P302

+ P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention

P321 - Specific treatment (see supplemental first aid instructions on this label)

P363 - Wash contaminated clothing before reuse

P273 - Avoid release to the environment

P391 - Collect spillage

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 - Keep container tightly closed

P240 - Ground/Bond container and receiving equipment

P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower

P370 + P378 - In case of fire: Use .? for extinction P403

+ P235 - Store in a well-ventilated place. Keep cool P501

- Dispose of contents/container to .?

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician P331

- Do NOT induce vomiting

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

**2.3. Other information** No information available.

### Section 3. Composition/information on ingredients

#### 3.1. Substances

#### 3.2. Mixtures

Chemical Name	EC-No	CAS-No	Weight %	EU - GHS Substance Classification	REACH No.
D-Limonene	227-813-5	5989-27-5	25-50	Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
n-Hexyl acetate	205-572-7	142-92-7	20-25	EFFA: EH A2; FL 3; SCI 3	No data available
Coumarin	202-086-7	91-64-5	1-5	Skin Sens. 1 (H317)	No data available
Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro4,6,6,7, 8,8-hexamethyl-	214-946-9	1222-05-5	1-2.5	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Eugenol	202-589-1	97-53-0	0.1-1	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	No data available
.alpha.-Pinene	201-291-9	80-56-8	0.1-1	Asp. Tox. 1 (H304) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexe n-1-yl)-	260-709-8	57378-68-4	0.1-0.25	Skin Sens. 1 (H317)	No data available

**For the full text of the H-Statements mentioned in this Section, see Section 16**

### Section 4. First aid measures

#### 4.1. Description of first-aid measures

**General Advice** If swallowed, get medical help or contact a Poison Control Center right away. Show this safety data sheet to the doctor in attendance.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention immediately if symptoms occur.

**Skin Contact** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Remove and wash contaminated clothing before re-use. If skin irritation or rash occurs: Get medical advice/attention.

**Ingestion** If swallowed: Call a physician or Poison Control Center immediately. Do NOT induce vomiting.

**Inhalation** Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

**Protection of First-aiders** Remove all sources of ignition. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

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

**Most Important Symptoms/Effects** Hives. Itching. Rashes. Irritation.

#### **4.3. Indication of immediate medical attention and special treatment needed**

**Notes to Physician** Aspiration hazard. May cause sensitization of susceptible persons. Treat symptomatically.

## **Section 5. Fire-fighting measures**

### **5.1. Extinguishing media**

#### **Suitable Extinguishing Media**

Use: Water spray. Carbon dioxide (CO<sub>2</sub>). Foam.

#### **Extinguishing media which must not be used for safety reasons**

Do not use a solid water stream as it may scatter and spread fire.

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

#### **Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

Flammable. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. **5.3.**

#### **Advice for firefighters**

#### **Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

## **Section 6. Accidental release measures**

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

Remove all sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

### **6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Avoid release to the environment. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

**6.3. Methods and materials for containment and cleaning up** Dike to collect large liquid spills.

Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Use personal protective equipment. Use clean non-sparking tools to collect absorbed material. Sweep up and shovel into suitable containers for disposal.

#### 6.4. Reference to other sections

See Section 12 for additional information.

## Section 7. Handling and storage

### 7.1. Precautions for Safe Handling Handling

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

#### Hygiene Measures

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Wash face, hands and any exposed skin thoroughly after handling. Remove and wash contaminated clothing before re-use. Contaminated work clothing should not be allowed out of the workplace.

**7.2. Conditions for safe storage, including any incompatibilities** Store in a well-ventilated place. Keep cool.

### 7.3. Specific end use(s)

#### Exposure Scenario

No information available.

**Other Guidelines** No information available.

## Section 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical Name	EU	Austria	Belgium	Cyprus	Denmark
.alpha.-Pinene 8056-8			TWA: 20 ppm		
Chemical Name	Finland	France	Germany	Gibraltar	Greece
D-Limonene 598927-5	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 50 ppm STEL: 280 mg/m <sup>3</sup>	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	TWA: 5 ppm TWA: 28 mg/m <sup>3</sup> Ceiling / Peak: 20 ppm Ceiling / Peak: 112 mg/m <sup>3</sup>  Skin Repr* Sen*		
Eugenol 9753-0			Sen*		
.alpha.-Pinene 8056-8		TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>			
Chemical Name	Ireland	Italy	Lithuania	Luxembourg	Malta
.alpha.-Pinene 8056-8		TWA: 20 ppm TWA: 111 mg/m <sup>3</sup> Sen* Carc*	TWA: 25 ppm TWA: 150 mg/m <sup>3</sup> STEL: 50 ppm STEL: 300 mg/m <sup>3</sup>		

Chemical Name	The Netherlands	Norway	Poland	Portugal	Spain
D-Limonene 598927-5		TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> Sen*			
.alpha.-Pinene 8056-8		TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 25 ppm STEL: 140 mg/m <sup>3</sup> Skin		TWA: 20 ppm Sen* Carc*	TWA: 20 ppm TWA: 113 mg/m <sup>3</sup> Sen*
Chemical Name	Switzerland		Sweden	The United Kingdom	
D-Limonene 5989-27-5	STEL: 14 ppm STEL: 80 mg/m <sup>3</sup> TWA: 7 ppm TWA: 40 mg/m <sup>3</sup> Sen*				
.alpha.-Pinene 80-56-8			LLV: 25 ppm LLV: 150 mg/m <sup>3</sup> Indicative STLV: 50 ppm		
			Indicative STLV: 300 mg/m <sup>3</sup>		

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

**Derived No Effect Level** No information available.

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

**8.2. Exposure controls**

**Engineering Measures**

- Showers
- Eyewash stations
- Ventilation systems

**Personal protective equipment**

Personal protection equipment should be chosen according to the CEN standards

**Eye Protection**

Tightly fitting safety goggles.

**Skin and Body Protection**

Wear suitable protective clothing.

**Hand Protection**

Protective gloves.

**Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respiratory protection complying with EN 143.

**Environmental Exposure Controls** Do not allow material to contaminate ground water system.

**Section 9. Physical and chemical properties**

**9.1** asic physical and chemical properties

<b>Physical State</b>			
<b>Odor</b>	Liquid Fruity, Spicy	<b>Appearance</b>	Colorless to pale yellow
<b>Property pH</b>			
<b>Melting Point/Range</b>	<u>Values</u>		<u>Remarks/ - Method</u>
<b>Boiling Point/Boiling Range</b>	No data available		None known
<b>Flash Point</b>	No data available		None known
<b>Evaporation rate</b>	No data available		None known
<b>Flammability (solid, gas)</b>	54 °C / 129.2 °F		None known
<b>Flammability Limits in Air</b>	No data available		None known
	No data available		None known
<b>Vapor Pressure</b>	No data available		None known
<b>Vapor Density</b>			
<b>Relative Density</b>	0.929 Pa @ 20 °C		None known
<b>Water Solubility</b>	No data available.		None known
<b>Solubility in other solvents</b>	No data available		None known
<b>Partition coefficient: octanol</b>	Insoluble in water. n-		None known
	Practically insoluble		None known
<b>Autoignition Temperature</b>	/water No data available		None known
<b>Decomposition Temperature</b>	No data available		None known
<b>Decomposition Temperature</b>	No data available		None known
<b>Viscosity</b>	No data available		None known
	No data available		None known
<b>Explosive Properties</b>	No information available		
<b>Oxidizing Properties</b>	No information available		

**9.2. Other information**

**VOC Content (%)** No information available

**Section 10. Stability and reactivity**

**10.1. Reactivity** No data available.

**10.2. Chemical stability** Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

**10.4. Conditions to avoid** Heat, flames and sparks.

**10.5. Incompatible materials**

Strong oxidizing agents, Strong acids, Strong bases.

**10.6. Hazardous decomposition products** Carbon oxides.

**Section 11. Toxicological information**

**11.1. Information on toxicological effects**

**Acute Toxicity**

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information.
<b>Inhalation</b>	None under normal use condntions.

<b>Eye Contact</b>	May cause irritation.
<b>Skin Contact</b>	Causes skin irritation. May cause sensitization by skin contact. May be harmful in contact with skin.
<b>Ingestion</b>	Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.
<b>Acute Toxicity</b>	9.0712% of the mixture consists of ingredient(s) of unknown toxicity.

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

<b>LD50 Oral</b>	2000 mg/kg
<b>LD50 Dermal</b>	3,917.00 mg/kg
<b>Gas</b>	99,999.00 mg/L
<b>Dust/Mist</b>	99,999.00 mg/L
<b>Vapor</b>	99,999.00 mg/L

#### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
D-Limonene	5000 mg/kg ( Rat )	>5000 mg/kg ( Rabbit )	-
n-Hexyl acetate	= 41500 µL/kg ( Rat )	> 5 g/kg ( Rabbit )	
Cinnamaldehyde	= 2220 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	
Coumarin	-	> 2000 mg/kg ( Rat )	
Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8h examethyl-	> 3250 mg/kg ( Rat )	> 3250 mg/kg ( Rabbit )	
Naphthalene, 2-methoxy-	> 5 g/kg ( Rat )	> 5 g/kg ( Rabbit )	
Eugenol	= 1930 mg/kg ( Rat )		
.alpha.-Pinene	= 3700 mg/kg ( Rat )	> 5000 mg/kg ( Rat )	

<b>Sensitization</b>	May cause sensitization by skin contact. May cause an allergic skin reaction.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenic Effects</b>	Contains no ingredients above reportable quantities listed as a carcinogen.
<b>Reproductive Toxicity</b>	No information available.
<b>Developmental Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration Hazard</b>	May be fatal if swallowed and enters airways

## Section 12. Ecological information

### 12.1. Toxicity

#### Ecotoxicity Effects

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
D-Limonene		LC50 96 h: 0.619 - 0.796 mg/L flow-through (Pimephales promelas) LC50 96 h: = 35 mg/L (Oncorhynchus mykiss)		
n-Hexyl acetate		LC50 96 h: 3.7 - 4.4 mg/L flow-through (Pimephales promelas)		

Eugenol		LC50 67.6 mg/l Oncorhynchus kisutch (Coho salmon) 96 h static		
.alpha.-Pinene		LC50 96 h: = 0.28 mg/L static (Pimephales promelas)		LC50 48 h: = 41 mg/L (Daphnia magna)

**12.2. Persistence and degradability** No

information available.

**12.3. Bioaccumulative potential** No information

available.

Chemical Name	Log Pow
Eugenol	2.27
.alpha.-Pinene	4.1

**12.4. Mobility in soil** Adsorbs on

soil.

**12.5. Results of PBT and vPvB assessment** No information

available.

**12.6. Other adverse effects**

This product does not contain any known or suspected endocrine disruptors.

## Section 13. Disposal considerations

**13.1. Waste treatment methods****Waste from Residues / Unused**

Dispose of in accordance with local regulations. **Products**

**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.

## Section 14. Transport information

**IMDG/IMO**

<b>14.1. UN-Number</b>	UN1169
<b>14.2. Proper Shipping Name</b>	Extracts, aromatic, liquid
<b>14.3. Hazard Class</b>	3
<b>14.4. Packing Group</b>	III
<b>Description</b>	UN1169, Extracts, aromatic, liquid, 3, III, (54°C c.c.)Marine Pollutant
<b>14.5. Marine Pollutant</b>	This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO; Product is a marine pollutant according to the criteria set by IMDG/IMO
<b>Environmental hazard</b>	yes
<b>14.6. Special Provisions</b>	None
<b>EmS No.</b>	F-E, S-D

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available.

**RID**

**14.1. UN-Number**

UN1169

**14.2. Proper Shipping Name**

Extracts, aromatic, liquid

14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1169, Extracts, aromatic, liquid, 3, III Marine Pollutant
14.5. Environmental hazard	yes
14.6. Special Provisions	None
Classification Code	F1

**ADR**

14.1. UN-Number	UN1169
14.2. Proper Shipping Name	Extracts, aromatic, liquid
14.3. Hazard Class	3
ADR/RID-Labels	3
14.4. Packing Group	III
Description	UN1169, Extracts, aromatic, liquid, 3, III, (D/E) Marine Pollutant
14.5. Environmental hazard	yes
14.6. Special Provisions	None
Classification Code	F1

**ICAO**

14.1. UN-Number	UN1169
14.2. Proper shipping name	Extracts, aromatic, liquid
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1169, Extracts, aromatic, liquid, 3, III Marine Pollutant
14.5. Environmental hazard	yes
14.6. Special Provisions	None

**IATA**

14.1. UN-Number	UN1169
14.2. Proper Shipping Name	Extracts, aromatic, liquid
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1169, Extracts, aromatic, liquid, 3, III Marine Pollutant
14.5. Environmental hazard	yes
14.6. Special Provisions	None
ERG Code	3L

<b>Section 15. Regulatory information</b>
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**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

TSCA	Complies
EINECS/ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Not determined
IECSC	Complies
AICS	Complies
KECL Legend	Complies

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

**Section 16. Other information****Full text of H-Statements referred to under sections 2 and 3**

H226 - Flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

**Key literature references and sources for data** [www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)**Issuing Date** 07-Aug-2013**Revision Date** 01-Aug-2017**Revision Note** Update to Format.**This safety data sheet complies with the requirements of Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No. 1907/2006****General Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet