

# Material Safety Data Sheet

Issuing Date 07-Aug-2013

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Revision Number 0

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

### GHS product identifier

Product Name Adore Viva!E Refill

### Other means of identification

UN-Number UN1169

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Air freshener

Uses advised against No information available

### Supplier's details

#### Supplier Address

Fragrance Delivery Technologies, LTD  
P.O.Box 262800  
Dubai  
United Arab Emirates  
TEL: +9714 887 0577  
email: fdtinquiries@oxygenpowered.com

### Emergency telephone number

Emergency Telephone Number 303-389-1271  
855-259-2437


## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Aspiration Toxicity	Category 1
Flammable liquids	Category 3

**GHS Label elements, including precautionary statements****Emergency Overview**

<b>Signal Word</b>		<b>Danger</b>	
<b>Hazard Statements</b>			
<ul style="list-style-type: none"> <li>• Causes skin irritation</li> <li>• Causes serious eye irritation</li> <li>• May cause an allergic skin reaction</li> <li>• May be fatal if swallowed and enters airways</li> <li>•</li> <li>• Flammable liquid and vapor.</li> </ul>			
			
<b>Appearance</b>	Colorless to very slightly yellow	<b>Physical State</b>	Liquid.
		<b>Odor</b>	Fruity, Spicy

**Precautionary Statements****Prevention**

- Wash face, hands and any exposed skin thoroughly after handling
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Contaminated work clothing should not be allowed out of the workplace
- 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
- Wear protective gloves/protective clothing/eye protection/face protection.

**General Advice**

- None

**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention.

**Skin**

- If skin irritation or rash occurs: Get medical advice/attention
- Wash contaminated clothing before reuse
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

**Ingestion**

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Do NOT induce vomiting.

**Fire**

- In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction.

**Storage**

- Store locked up
- Store in a well-ventilated place. Keep cool.

**Disposal**

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

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Very toxic to aquatic life with long lasting effects

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
D-Limonene	5989-27-5	25-<50	*
Coumarin	91-64-5	1-<5	*
Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-	1222-05-5	1-<2.5	*
Eugenol	97-53-0	0.1-<1	*
.alpha.-Pinene	80-56-8	0.1-<1	*
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	57378-68-4	0.1-<0.25	*

*\*The exact percentage (concentration) of composition has been withheld as a trade secret.*

### 4. FIRST AID MEASURES

**Description of necessary first-aid measures**

<b>General Advice</b>	If swallowed, get medical help or contact a Poison Control Center right away.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation persists.
<b>Skin Contact</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors.
<b>Ingestion</b>	Call a physician or Poison Control Center immediately. Do NOT induce vomiting.
<b>Protection of First-aiders</b>	Remove all sources of ignition. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Most important symptoms/effects, acute and delayed**

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

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

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

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

### Specific Hazards Arising from the Chemical

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

### Explosion Data

<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	Yes.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### **Personal Precautions**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). 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.

### Environmental Precautions

#### **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. Collect spillage. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information

### Methods and materials for containment and cleaning up

#### **Methods for Containment**

Dike far ahead of liquid spill for later disposal.

#### **Methods for Cleaning Up**

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

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling** Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly after handling.

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

**Storage** Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed in a dry and well-ventilated place.

**Incompatible Products** Strong oxidizing agents, Strong acids, Strong bases,

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
.alpha.-Pinene 80-56-8	TWA: 20 ppm	-	-

*ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.*

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Safety glasses with side-shields.  
**Skin and Body Protection** Wear protective gloves/clothing.  
**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. Provide regular cleaning of equipment, work area and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Appearance</b>	Colorless to very slightly yellow
<b>Odor</b>	Fruity, Spicy	<b>Odor Threshold</b>	No information available

Property	Values	Remarks/ - Method
pH	No data available	None known
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	No data available	None known
Flash Point	54 °C / 129.2 °F	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	0.929 Pa @ 20 °C	Calculated
Vapor Density	No data available	None known
Relative Density	No data available	None known
Specific Gravity	No data available.	None known
Water Solubility	Insoluble in water.	None known
Solubility in other solvents	Practically insoluble.	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known

**Flammable Properties**                      Not flammable

**Explosive Properties**                      No data available

**Oxidizing Properties**                      No data available

### Other information

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

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to avoid

Heat, flames and sparks.

### Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases,

### Hazardous decomposition products

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information**

**Inhalation** None under normal use conditions  
**Eye Contact** May cause irritation.  
**Skin Contact** Irritating to skin.  
**Ingestion** May be fatal if swallowed and enters airways.

**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	= 2200 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit ) > 2000 mg/kg ( Rat )	-
Coumarin	= 293 mg/kg ( Rat )	-	-
Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-h examethyl-	> 5000 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
Naphthalene, 2-methoxy-	> 5 g/kg ( Rat )	> 5 g/kg ( Rabbit )	-
Eugenol	= 1930 mg/kg ( Rat )	-	-
.alpha.-Pinene	= 2100 mg/kg ( Rat )	> 5000 mg/kg ( Rat )	-

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Sensitization** May cause sensitization by skin contact.  
**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
D-Limonene		Group 3	-	-
Coumarin		Group 3		
Eugenol		Group 3		

**IARC: (International Agency for Research on Cancer)**

Group 3: Not Classifiable as to its Carcinogenicity to Humans

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration Hazard** May be fatal if swallowed and enters airways

**Numerical measures of toxicity - Product**

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

**LD50 Oral** 3158 mg/kg; Acute toxicity estimate  
**LD50 Dermal** 3231 mg/kg; Acute toxicity estimate

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
D-Limonene 5989-27-5		LC50 96 h: 0.619 - 0.796 mg/L flow-through (Pimephales promelas) LC50 96 h: = 35 mg/L (Oncorhynchus mykiss)		
n-Hexyl acetate 142-92-7		LC50 96 h: 3.7-4.4 mg/L flow-through (Pimephales promelas)		
Eugenol 97-53-0		LC50 67.6 mg/l Oncorhynchus kisutch (Coho salmon) 96 h static		
.alpha.-Pinene 80-56-8		LC50 96 h: = 0.28 mg/L static (Pimephales promelas)		LC50 48 h: = 41 mg/L (Daphnia magna)

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

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

### Other Adverse Effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated Packaging** Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**US EPA Waste Number** D001

Chemical Name	California Hazardous Waste
D-Limonene	Toxic



<b>14. TRANSPORT INFORMATION</b>
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**Note:** This shipping size falls into limited quantity exemptions that do not require labeling or placarding except if transported by aircraft. Under U.S. DOT transportation regulations, this product can be re-classed as a Limited Quantity in accordance with 49 CFR 173.306(i). Under Transport Canada regulations, this product can be re-classed as a Limited Quantity in accordance with Section 1.17. Under IMDG regulations (Amdt 35-10), this product can be re-classed as a Limited Quantity in accordance with Chapter 3.4.

**DOT**

<b>UN-Number</b>	UN1169
<b>Proper shipping name</b>	Extracts, aromatic, liquid
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Description</b>	UN1169, Extracts, aromatic, liquid, 3, III

**TDG**

<b>UN-Number</b>	UN1169
<b>Proper Shipping Name</b>	Extracts, aromatic, liquid
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Marine Pollutant</b>	This mixture meets the IMDG criteria for being a marine pollutant.
<b>Description</b>	UN1169, Extracts, aromatic, liquid, 3, III

**MEX**

<b>UN-Number</b>	UN1169
<b>Proper Shipping Name</b>	Extracts, aromatic, liquid
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Description</b>	UN1169, Extracts, aromatic, liquid, 3, III

**ICAO**

<b>UN-Number</b>	UN1169
<b>Proper shipping name</b>	Extracts, aromatic, liquid
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Description</b>	UN1169, Extracts, aromatic, liquid, 3, III

**IATA**

<b>UN-Number</b>	UN1169
<b>Proper Shipping Name</b>	Extracts, aromatic, liquid
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>ERG Code</b>	3L
<b>Description</b>	UN1169, Extracts, aromatic, liquid, 3, III

**IMDG/IMO**

<b>UN-Number</b>	UN1169
<b>Proper Shipping Name</b>	Extracts, aromatic, liquid
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>EmS No.</b>	F-E, S-D
<b>Marine Pollutant</b>	This mixture meets the IMDG criteria for being a marine pollutant.
<b>Description</b>	UN1169, Extracts, aromatic, liquid, 3, III, (54°C c.c.)

**RID**

<b>UN-Number</b>	UN1169
<b>Proper Shipping Name</b>	Extracts, aromatic, liquid
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Classification Code</b>	F1
<b>Description</b>	UN1169, Extracts, aromatic, liquid, 3, III

**ADR**

<b>UN-Number</b>	UN1169
<b>Proper Shipping Name</b>	Extracts, aromatic, liquid
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Classification Code</b>	F1
<b>Description</b>	UN1169, Extracts, aromatic, liquid, 3, III, (D/E)
<b>ADR/RID-Labels</b>	3

**ADN**

<b>Proper Shipping Name</b>	Extracts, aromatic, liquid
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Classification Code</b>	F1
<b>Special Provisions</b>	601, 604E
<b>Description</b>	UN1169, Extracts, aromatic, liquid, 3, III
<b>Limited Quantity</b>	5 L
<b>Ventilation</b>	VE01
<b>Special Precautions</b>	This mixture meets the IMDG criteria for being a marine pollutant.

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>EINECS</b>	Not determined
<b>ENCS</b>	Not determined
<b>IECSC</b>	Complies
<b>KECL</b>	Not determined
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**Legend**

**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 Commercial Chemical Substances/EU 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

**U.S. Federal Regulations**

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**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	Yes
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**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.

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
D-Limonene	X			X	
.alpha.-Pinene	X	X	X		

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	Health Hazard	2	Flammability	2	Instability	0	Physical and Chemical Hazards	-
<b><u>HMIS</u></b>	Health Hazard	2*	Flammability	2	Physical Hazard	0	Personal Protection	X

\*Indicates a chronic health hazard.

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

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**Revision Date** 07-Aug-2013  
**Revision Note** Initial Release.

**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**