

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 Flair Viva!E Refill

Other means of identification

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 2A
Skin Sensitization	Category 1
Flammable liquids	Category 4

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word Hazard Statements <ul style="list-style-type: none"> • Causes skin irritation • Causes serious eye irritation • May cause an allergic skin reaction • Combustible liquid. 	Warning	
		
Appearance Colorless to very slightly yellow	Physical State Liquid.	Odor Floral, Water fruit, Marine

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
- 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 ON SKIN: Wash with plenty of soap and water
- Take off contaminated clothing and wash before reuse
- If skin irritation or rash occurs: Get medical advice/attention.

Fire

- In case of fire: Use CO2, dry chemical, or foam for extinction.

Storage

- 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

Toxic to aquatic life. Toxic to aquatic life with long lasting effects

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Phenethyl alcohol	60-12-8	5-<10	*
Linalool	78-70-6	5-<10	*
D-Limonene	5989-27-5	5-<10	*
Dihydromyrcenol	18479-58-8	5-<10	*
Citronellol	106-22-9	5-<10	*
Eucalyptol	470-82-6	1-<5	*
Benzyl acetate	140-11-4	1-<5	*
Eugenol	97-53-0	0.1-<1	*
Carvone	6485-40-1	0.1-<1	*
.beta.-Pinene	127-91-3	0.1-<1	*
.alpha.-Pinene	80-56-8	0.1-<1	*

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

4. FIRST AID MEASURES

Description of necessary first-aid measures**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.

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.

Inhalation

Move to fresh air in case of accidental inhalation of vapors.

Ingestion

Clean mouth with water and afterwards drink plenty of water.

Protection of First-aiders

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 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: Carbon dioxide (CO₂). Dry chemical. Foam.

Unsuitable Extinguishing Media None

Specific Hazards Arising from the Chemical

Combustible Liquid

Explosion Data

Sensitivity to Mechanical Impact None.

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

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.

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 Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

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 None known based on information supplied.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Benzyl acetate 140-11-4	TWA: 10 ppm	-	-
.beta.-Pinene 127-91-3	TWA: 20 ppm	-	-
.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 Tightly fitting safety goggles.
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

Physical State	Liquid	Appearance	Colorless to very slightly yellow
Odor	Floral, Water fruit, Marine	Odor Threshold	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	61 °C / 141.8 °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	0.911 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

None known based on information supplied.

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	Irritating to eyes.
Skin Contact	Irritating to skin. May cause sensitization by skin contact.
Ingestion	Harmful if swallowed. Ingestion may cause irritation to mucous membranes.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
n-Hexyl acetate	= 41500 µL/kg (Rat)	> 5 g/kg (Rabbit)	-
Ethyl acetoacetate	= 3980 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Citronellol	= 3450 mg/kg (Rat)	= 2650 mg/kg (Rabbit)	-
D-Limonene	5000 mg/kg (Rat)	>5000 mg/kg (Rabbit)	-
Phenethyl alcohol	= 1790 mg/kg (Rat)	= 790 µL/kg (Rabbit)	> 1.38 mg/L (Rat) 4 h (no mortalities)
Dihydromyrcenol	= 3600 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
Linalool	2790 mg/kg (Rat)	5610 mg/kg (Rat)	-
Eucalyptol	= 2480 mg/kg (Rat)	-	-
Benzyl acetate	= 2490 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
.beta.-Pinene	= 4700 mg/kg (Rat)	-	-
Carvone	= 1640 mg/kg (Rat)	-	-
.alpha.-Pinene	= 2100 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Eugenol	= 1930 mg/kg (Rat)	-	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Irritation

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

Skin corrosion/irritation	Irritating to skin.
Eye damage/irritation	Irritating to eyes.
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	-	-
Benzyl acetate		Group 3		
Eugenol		Group 3		

IARC: (International Agency for Research on Cancer)

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	No information available.

Numerical measures of toxicity - Product

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

LD50 Oral	3704 mg/kg; Acute toxicity estimate
LD50 Dermal	>5000 mg/kg; Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
n-Hexyl acetate 142-92-7		LC50 96 h: 3.7-4.4 mg/L flow-through (Pimephales promelas)		
Ethyl acetoacetate 141-97-9	EC50 72 h: > 500 mg/L (Desmodesmus subspicatus)	LC50 96 h: = 290 mg/L (Oncorhynchus mykiss) LC50 96 h: = 298 mg/L (Pimephales promelas) LC50 96 h: = 307 mg/L (Lepomis macrochirus)		EC50 48 h: = 646 mg/L (Daphnia magna) EC50 24 h: = 790 mg/L Static (Daphnia magna)
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)		
Phenethyl alcohol 60-12-8	EC50 72 h: = 490 mg/L (Desmodesmus subspicatus)	LC50 96 h: = 220-460 mg/L static (Leuciscus idus)	EC50 = 1320 mg/L 17 h	EC50 48 h: = 287.17 mg/L (Daphnia magna)
Linalool 78-70-6	EC50 96 h: = 88.3 mg/L (Desmodesmus subspicatus)	LC50 96 h: = 22-46 mg/L static (Leuciscus idus)		EC50 48 h: = 20 mg/L (Daphnia magna)
Eucalyptol 470-82-6		LC50 96 h: 95.4-109 mg/L flow-through (Pimephales promelas)		
Benzyl acetate 140-11-4			EC50 = 3.29 mg/L 5 min EC50 = 3.86 mg/L 15 min EC50 = 4.54 mg/L 30 min	
.alpha.-Pinene 80-56-8		LC50 96 h: = 0.28 mg/L static (Pimephales promelas)		LC50 48 h: = 41 mg/L (Daphnia magna)
Eugenol 97-53-0		LC50 67.6 mg/l Oncorhynchus kisutch (Coho salmon) 96 h static		

Persistence and Degradability No information available.

Bioaccumulation No information available.

Chemical Name	Log Pow
Phenethyl alcohol	1.38
Linalool	3.1
Benzyl acetate	1.96
Eugenol	2.27
.alpha.-Pinene	4.1

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Do not re-use empty containers.

Chemical Name	California Hazardous Waste
D-Limonene	Toxic

14. TRANSPORT INFORMATION

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 Not regulated

TDG
UN-Number UN3082
Proper Shipping Name Environmental Hazardous Substance, Liquid, N.O.S.
Hazard Class 9
Packing Group III
Marine Pollutant This mixture meets the IMDG criteria for being a marine pollutant.
Description Environmental Hazardous Substance, Liquid, N.O.S. (Methyl isopropenyl cyclohexene), 9,III

MEX
UN-Number UN3082
Proper Shipping Name Environmental Hazardous Substance, Liquid, N.O.S.
Hazard Class 9
Packing Group III
Description Environmental Hazardous Substance, Liquid, N.O.S. (Methyl isopropenyl cyclohexene), 9,III

ICAO Not regulated

IATA Not regulated

IMDG/IMO
UN-Number UN3082
Proper Shipping Name Environmental Hazardous Substance, Liquid, N.O.S.
Hazard Class 9
Packing Group III
EmS No. F-E, S-D
Marine Pollutant This mixture meets the IMDG criteria for being a marine pollutant.
Description Environmental Hazardous Substance, Liquid, N.O.S. (Methyl isopropenyl cyclohexene), 9,III

RID Not regulated

ADR Not regulated
Description)

ADN
UN-No UN3082
Proper Shipping Name Environmental Hazardous Substance, Liquid, N.O.S.
Hazard Class 9
Packing Group III
Description Environmental Hazardous Substance, Liquid, N.O.S. (Methyl isopropenyl cyclohexene), 9,III
Limited Quantity 5 L
Ventilation VE01
Special Precautions This mixture meets the IMDG criteria for being a marine pollutant.

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
EINECS	Complies
ENCS	Not determined
IECSC	Complies
KECL	Not determined
PICCS	Complies
AICS	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 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

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	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
Ethyl acetoacetate		X	X		
D-Limonene	X			X	
Benzyl acetate	X				
.alpha.-Pinene	X	X	X		

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION					
<u>NFPA</u>	Health Hazard	2	Flammability	1	Instability 0
<u>HMIS</u>	Health Hazard	2*	Flammability	1	Physical Hazard 0
					Physical and Chemical Hazards -
					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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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