

#### 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** 

Crush VIVA!e Refill

Contains D-Limonene, Oxiranecarboxylic acid, 3-methyl-3-phenyl-, ethyl ester Contains Allyl caproate, Ethyl butyrate, Heptanoic acid, 2-propenyl ester, D-Limonene

#### 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

## 1.4. Emergency telephone number

Emergency Telephone Number 303-389-1271

855-259-2437

855-259-243

Europe	112

## Section 2. Hazards identification

## 2.1. - Classification of the substance or mixture

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

Acute Oral Toxicity	Category 4
Acute Dermal Toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Specific Target Organ Toxicity (Repeated Exposure)	Category 2
Acute Aquatic Toxicity	Category 2
Chronic Aquatic Toxicity	Category 2

## **Physical Hazards**

Flammable liquids Category 3

2.2. Label Elements



### Signal Word

## Warning

#### **Hazard Statements**

- H302 Harmful if swallowed
- H312 Harmful in contact with skin
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H373 May cause damage to organs through prolonged or repeated exposure
- H411 Toxic to aquatic life with long lasting effects Contains

Coumarin

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

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P233 Keep container tightly closed
- P243 Take precautionary measures against static discharge
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P273 Avoid release to the environment

#### **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
- P322 Specific measures (see supplemental first aid instructions on this label)
- P271 Use only outdoors or in a well-ventilated area
- P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- 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
- 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

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 .?
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 If eye irritation persists: Get medical advice/ attention
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P314 Get medical advice/ attention if you feel unwell
- P273 Avoid release to the environment
- P391 Collect spillage
- 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.
Ethyl acetoacetate	205-516-1	141-97-9	25-50		No data available
n-Hexyl acetate	205-572-7	142-92-7	10-20	EFFA: EH A2; FL 3; SCI 3	No data available
Heptanoic acid, 2-propenyl ester	205-527-1	142-19-8	10-20	Acute Tox. Oral Cat. 3 (H301) Acute Tox. Dermal Cat. 3 (H311) Acute Tox. Inh. Cat. 3 (H331) Aquatic Acute Tox. Cat. 1 (H400) Aquatic Chronic Tox. Cat. 3 (412)	No data available
Heptanoic acid, ethyl ester	203-382-9	106-30-9	5-10		No data available
D-Limonene	227-813-5	5989-27-5	5-10	Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Acetic acid, (3-methylbutoxy)-, 2-propenyl ester	266-803-5	67634-00-8	5-10	Skin Irrit. 2 (H315)	No data available
Oxiranecarboxylic acid, 3methyl-3-phenyl-, ethyl ester	201-061-8	77-83-8	1-5	Skin Sens. 1 (H317)	No data available
Ethyl butyrate	203-306-4	105-54-4	1-5		No data available

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Benzenemethanol, .alphamethyl-, acetate	202-288-5	93-92-5	1-5		No data available
Allyl caproate	204-642-4	123-68-2	1-5	Aquatic Chronic 2 (H411)	No data available
Cyclohexanepropanoic acid, 2-propenyl ester	220-292-5	2705-87-5	1-5	EFFA: ATD 4; ATO 4; FL 4; SCI 2	No data available
2(3H)-Furanone, dihydro- 5pentyl-	203-219-1	104-61-0	1-5		No data available
Coumarin	202-086-7	91-64-5	0.1-1	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

Eye Contact 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 Contact 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.

**Ingestion** Call a POISON CENTER or doctor/physician if exposed or you feel unwell. Rinse mouth.

Inhalation Get medical attention immediately if symptoms occur.

#### 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** May cause sensitization by skin contact.

## 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 or dust 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.

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. 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 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. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Contaminated work clothing should not be allowed out of the workplace. Wash face, hands and any exposed skin thoroughly after handling.

## 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	Finland	France	Germany	Gibraltar	Greece
D-Limonene	TWA: 25 ppm	TWA: 1000 mg/m <sup>3</sup>	TWA: 5 ppm		
598927-5	TWA: 140 mg/m <sup>3</sup>	STEL: 1500 mg/m <sup>3</sup>	TWA: 28 mg/m <sup>3</sup>		
	STEL: 50 ppm		Ceiling / Peak: 20 ppm		
	STEL: 280 mg/m <sup>3</sup>		Ceiling / Peak: 112 mg/m <sup>3</sup>		
			Skin		
			Repr*		
			Sen*		

Chemical Name	The Netherlands	Norway	Poland	Portugal	Spain
D-Limonene 598927-5		TWA: 25 ppm TWA: 140 mg/m³ STEL: 37.5 ppm STEL: 175 mg/m³ Sen*			
Chemical Name		Switzerland	Sweden	The	United Kingdom
D-Limonene &		STEL: 14 ppm FEL: 80 mg/m³ TWA: 7 ppm WA: 40 mg/m³ Sen*			

### 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 Tightly fitting safety goggles.

**Eye Protection 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

basic physical and chemical

9.1 properties

Physical State Liquid Appearance Pale yellow to lemon yellow

Odor Fruity

Property Values Remarks/ - Method

No data available pН None known Melting Point/Range No data available None known **Boiling Point/Boiling Range** No data available None known Flash Point 56 °C / 132.8 °F None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limits in Air No data available None known

Vapor Pressure 0.934 Pa @ 20 °C None known **Vapor Density** No data available. None known No data available **Relative Density** None known Insoluble in water. Water Solubility None known Practically insoluble Solubility in other solvents None known Partition coefficient: n-octanol /waterNo data available None known No data available **Autoignition Temperature** None known No data available **Decomposition Temperature** None known No data available **Decomposition Temperature** None known No data available Viscosity None known

Explosive Properties No information available

Oxidizing Properties 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** 

Product Information

**Inhalation** None under normal use conditions.

**Eye Contact** Causes serious eye irritation.

**Skin Contact** Causes skin irritation. May cause sensitization by skin contact. Harmful in contact with skin. Ingestion

Harmful if swallowed. Ingestion may cause irritation to mucous membranes.

**Acute Toxicity** 0% of the mixture consists of ingredient(s) of unknown toxicity.

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

LD50 Oral 396.00 mg/kg

LD50 Dermal 1,193.00 mg/kg

Inhalation Not classified

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethyl acetoacetate	= 3980 mg/kg( Rat)	> 5000 mg/kg( Rabbit)	
Heptanoic acid, 2propenyl ester	= 5000 mg/kg( Rat)	= 810 mg/kg( Rabbit)	
n-Hexyl acetate	= 41500 μL/kg (Rat)	> 5 g/kg ( Rabbit )	
Heptanoic acid, ethyl ester	> 34640 mg/kg( Rat)	> 5 g/kg ( Rabbit )	
D-Limonene	5000 mg/kg( Rat)	>5000 mg/kg( Rabbit)	-
Oxiranecarboxylic acid, 3-methyl-3-phenyl-, ethyl ester	= 5470 mg/kg( Rat)		
Benzenemethanol, .alphamethyl-, acetate	> 5 g/kg(Rat)	> 5 g/kg ( Rabbit )	
Allyl caproate	= 218 mg/kg( Rat)	= 300 mg/kg( Rabbit)	
2(3H)-Furanone, dihydro-5-pentyl-	= 6600 mg/kg( Rat)	> 5 g/kg ( Rabbit	
Ethyl butyrate	= 13 g/kg(Rat)	> 2 g/kg ( Rabbit )	
Cyclohexanepropanoic acid, 2-propenyl ester	= 585 mg/kg( Rat)		
Coumarin	-	> 2000 mg/kg ( Rat )	
Allyl phenoxyacetate	= 475 μL/kg ( Rat )	= 820 μL/kg( Rabbit)	
Sensitization	May cause an allergic skir	•	

Sensitization May cause an allergic skin

reaction.

**Mutagenic Effects** No information available. Carcinogenic Effects Contains no ingredients

above reportable quantities listed as a carcinogen.

Reproductive

No information available.

Toxicity

Developmental

No information available.

**Toxicity** 

STOT - single

No information available.

exposure

STOT - repeated May cause disorder and exposure damage to the: Liver

Aspiration Hazard

damage to the: Liver No information available.

## Section 12. Ecological information

## 12.1. Toxicity

## **Ecotoxicity Effects**

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)
Ethyl acetoacetate	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)
n-Hexyl acetate		LC50 96 h: 3.7 - 4.4 mg/L flow-through (Pimephales promelas)		
D-Limonene		LC50 96 h: 0.619 - 0.796 mg/L flow-through (Pimephales promelas) LC50 96 h: = 35 mg/L (Oncorhynchus mykiss)		
Allyl caproate		LC50 96 h: = 30 mg/L (Carassius auratus)		

## 12.2. Persistence and degradability

No information available.

## 12.3. Bioaccumulative potential No information

available.

Chemical Name	Log Pow
Ethyl acetoacetate	0.27

### 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

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

**Contaminated Packaging** Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

containers.

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

14.1. UN-Number UN1169

14.2. Proper Shipping Name Extracts, aromatic, liquid

14.3. Hazard Class 3 14.4. Packing Group

Description UN1169, Extracts, aromatic, liquid, 3, III, Marine Pollutant (54°C c.c.)

14.5. Marine Pollutant **Environmental hazard** yes 14.6. Special Provisions None EmS No. 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 14.4. Packing Group

Description UN1169, Extracts, aromatic, liquid, 3, III

14.5. Environmental hazard yes

14.6. Special Provisions None

Classification Code F1

<u>ADR</u>

**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)

14.5. Environmental hazardyes14.6. Special ProvisionsNoneClassification CodeF1

**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

14.5. Environmental hazard yes14.6. Special Provisions None

<u>IATA</u>

**14.1. UN-Number** UN1169

**14.2. Proper Shipping Name** Extracts, aromatic, liquid

**14.3.** Hazard Class 3 **14.4.** Packing Group

**Description** UN1169, Extracts, aromatic, liquid, 3, III

14.5. Environmental hazardyes14.6. Special ProvisionsNoneERG Code3L

## **Section 15. Regulatory information**

## 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 Complies **AICS 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

**Page** 

## Section 16. Other information

#### Full text of H-Statements referred to under sections 2 and 3

H226 - Flammable liquid and vapor

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H331 - Toxic if inhaled

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

## Key literature references and sources for data www.ChemADVISOR.com/

Issuing Date07-Aug-2013Revision Date01-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**