

## Fragrance Delivery Technologies Ltd.

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# SAFETY DATA SHEET

Issuing Date 07-Aug-2013

Revision Date 06-Nov-2022

Revision Number 2

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

#### 1.1. Product identifier

**Product Name** Crush Viva!E Cartridge; Crush Oxygen-Pro Grande Cartridge; Crush Oxygen-Pro Regular Cartridge  
**UFI:** W04E-31QX-7009-7MC3

Contains: D-Limonene, Oxiranecarboxylic acid, 3-methyl-3-phenyl-, ethyl ester

#### 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

<b>Importer</b> Fragrance Delivery Technologies, LTD P.O.Box 262800 Dubai United Arab Emirates TEL: +9714 887 0577 email: info@oxygenpowered.com	<b>UK Address</b> Fragrance Delivery Technologies, LTD Unit 4 Enterprise Court, Station Road SANDBACH, CW11 3SB United Kingdom email: <a href="mailto:info@oxygenpowered.com">info@oxygenpowered.com</a>	<b>EU Address</b> Fragrance Delivery Technologies, LTD Praceta Teixeira Pascoaes nº44 R/C Dtº Tras 4490-260 Portugal email: <a href="mailto:info@oxygenpowered.com">info@oxygenpowered.com</a>
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#### For further information, please contact

**E-mail Address** communications@oxygenpowered.com

#### 1.4. Emergency telephone number

**Emergency Telephone Number** 1-800-424-9300 USA  
703-527-3887 Outside USA

Europe	112
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### Section 2. Hazards identification

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

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

Acute Oral 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
Chronic Aquatic Toxicity	Category 1

##### Physical Hazards

Flammable liquids	Category 3
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**Classification according to EU Regulation (EC) No 1272/2008**

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

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

H302 - Harmful if swallowed  
 H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H319 - Causes serious eye irritation  
 H410 - Very toxic to aquatic life with long lasting effects  
 H226 - Flammable liquid and vapor  
 EUH210 - Safety data sheet available on request

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

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 P233 - Keep container tightly closed  
 P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray  
 P280 - Wear protective gloves/ eye protection/ face protection  
 P314 - Get medical advice/ attention if you feel unwell  
 P370 + P378 - In case of fire: Use carbon dioxide, alcohol-resistant foam, or water spray for extinction  
 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  
 P312 - Call a POISON CENTER or doctor/ physician if you feel unwell  
 P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water  
 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  
 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  
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower

**2.3. Other information**

No information available.

### Section 3. Composition/information on ingredients

#### 3.1. Substance

#### 3.2 Mixture

Chemical Name	EC-No	CAS-No	Weight %	Classification	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	R10; N R51/53	EFFA: EH A2; FL 3; SCI 3	No data available
Heptanoic acid, 2-propenyl ester	205-527-1	142-19-8	10-20	Xn; R21 Xn; R22**		No data available
Heptanoic acid, ethyl ester	203-382-9	106-30-9	5-10	-		No data available
D-Limonene	Present	5989-27-5	5-10	R10 Xi;R38-43 N;R50-53	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	Xn;R22-38	Skin Irrit. 2 (H315)	No data available
Oxiranecarboxylic acid, 3-methyl-3-phenyl-, ethyl ester	201-061-8	77-83-8	1-5	R43	Skin Sens. 1 (H317)	No data available
Ethyl butyrate	203-306-4	105-54-4	1-5	R10		No data available
Benzenemethanol, .alpha.-methyl-, acetate	202-288-5	93-92-5	1-5	-		No data available
Allyl caproate	204-642-4	123-68-2	1-5	Xn;R21/22 N;R51/53	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-5-pentyl-	203-219-1	104-61-0	1-5	-		No data available
Triplal	268-264-1	68039-49-6	0.1-1	-		No data available
Coumarin	202-086-7	91-64-5	0.1-1	Xn;R22-43	Skin Sens. 1 (H317)	No data available
Allyl phenoxyacetate	231-335-2	7493-74-5	0.1-1	Xn;R21/22 Xi;R38	Skin Irrit. 2 (H315)	No data available

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

**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

Wash skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention.

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<b>Ingestion</b>	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell
<b>Inhalation</b>	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
<b>Protection of First-aiders</b>	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** Itching, Rashes, Irritation.

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

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

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

#### **5.1. Extinguishing media**

**Suitable Extinguishing Media**

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

**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. 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.

#### **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. Keep people away from and upwind of spill/leak. Take precautionary measures against static discharges. 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. Dispose of contents/container to an approved waste disposal plant. Collect spillage.

#### **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). Non-sparking tools should be used. Use personal protective equipment. 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. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Wear personal protective equipment. Use spark-proof tools and explosion-proof equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

**Hygiene Measures**

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

**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	The United Kingdom	France	Spain	Germany
D-Limonene 5989-27-5			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 TWA: 20 ppm TWA: 110 mg/m <sup>3</sup>
Component	Italy	Portugal	The Netherlands	Finland	Denmark
D-Limonene 5989-27-5 ( 5-10 )				TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 50 ppm STEL: 280 mg/m <sup>3</sup>	
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
D-Limonene 5989-27-5		STEL: 40 ppm STEL: 220 mg/m <sup>3</sup> TWA: 20 ppm TWA: 110 mg/m <sup>3</sup>		TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup>	

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

**8.2. Exposure controls****Engineering Measures**

Showers  
 Eyewash stations  
 Ventilation systems.

**Personal protective equipment****Eye Protection**

Eyewash stations

**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. Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Appearance</b>	Pale yellow to lemon yellow
<b>Odor</b>	Fruity		

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
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	56 °C / 132.8 °F	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Vapor Pressure	0.934 Pa @ 20 °C	None known
Vapor Density	No data available	None known
Relative Density	No data available	None known
Water Solubility	No data available	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	Flammable.	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

### 9.2. Other information

<b>VOC Content (%)</b>	No information available
<b>Flammability Limits in Air</b>	No data 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

None under normal processing.

### 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.

**Ingestion**

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

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethyl acetoacetate	= 3980 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	
Heptanoic acid, 2-propenyl ester	= 500 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, .alpha.-methyl-, 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	-		
Allyl phenoxyacetate	= 475 µL/kg ( Rat )	= 820 µL/kg ( Rabbit )	

**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 Toxicity**

No information available.

**Developmental Toxicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Aspiration Hazard**

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**

<b>Waste from Residues / Unused Products</b>	Dispose of in accordance with local regulations.
<b>Contaminated Packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Other Information</b>	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>	UN1197
<b>14.2. Proper Shipping Name</b>	Extracts, Liquid
<b>14.3. Hazard Class</b>	3
<b>14.4. Packing Group</b>	III
<b>Description</b>	UN1169, Extracts, Liquid, 3, III, Marine Pollutant (55°C c.c.)
<b>14.5. Marine Pollutant</b>	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	UN1197
14.2. Proper Shipping Name	Extracts, Liquid
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1169, Extracts, Liquid, 3, III
14.5. Environmental hazard	yes
14.6. Special Provisions	None.
Classification Code	F1

**ADR**

14.1. UN-Number	UN1197
14.2. Proper Shipping Name	Extracts, Liquid
14.3. Hazard Class	3
ADR/RID-Labels	3
14.4. Packing Group	III
Description	UN1197, Extracts, Liquid, 3, III, (D/E)
14.5. Environmental hazard	yes
14.6. Special Provisions	None.
Classification Code	F1
Tunnel Restriction Code	(D/E)

**ICAO**

14.1. UN-Number	UN1197
14.2. Proper shipping name	Extracts, Liquid
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1197, Extracts, Liquid, 3, III
14.5. Environmental hazard	yes
14.6. Special Provisions	None.

**IATA**

14.1. UN-Number	UN1197
14.2. Proper Shipping Name	Extracts, Liquid
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1197, Extracts, Liquid, 3, III
14.5. Environmental hazard	yes
14.6. Special Provisions	None.
ERG Code	3L

## 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
AICS	Complies

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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

**Section 16. Other information****Full text of R-phrases referred to under Sections 2 and 3**

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

R10 – Flammable

R21 – Harmful in contact with skin

R22 – Harmful if swallowed

R43 - May cause sensitization by skin contact

R38 - Irritating to skin

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R21/22 - Harmful in contact with skin and if swallowed

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

H226 - Flammable liquid and vapor

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

H411 - 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** 06-Nov-2022

**Revision Note** New Regulation (EC) No 1272/2008

**This safety data sheet complies with the requirements of Regulation (EC) No 1272/2008.**

**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