

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

Importer Fragrance Delivery Technologies, LTD P.O.Box 262800 Dubai United Arab Emirates TEL: +9714 887 0577 email: info@oxygenpowered.com	UK Address Fragrance Delivery Technologies, LTD Unit 4 Enterprise Court, Station Road SANDBACH, CW11 3SB United Kingdom email: info@oxygenpowered.com	NZ Address Pacific Hygiene Ltd 51 Arrenway Drive, Rosedale Auckland, 0632 New Zealand TEL: 0800 354 800 email: info.nz@pacifichygiene.com
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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.

Ingestion	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell
Inhalation	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
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 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 (CO₂). 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 ³ STEL: 1500 mg/m ³		TWA: 5 ppm TWA: 28 mg/m ³ Ceiling / Peak: 20 ppm Ceiling / Peak: 112 mg/m ³ Skin TWA: 20 ppm TWA: 110 mg/m ³
Component	Italy	Portugal	The Netherlands	Finland	Denmark
D-Limonene 5989-27-5 (5-10)				TWA: 25 ppm TWA: 140 mg/m ³ STEL: 50 ppm STEL: 280 mg/m ³	
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
D-Limonene 5989-27-5		STEL: 40 ppm STEL: 220 mg/m ³ TWA: 20 ppm TWA: 110 mg/m ³		TWA: 25 ppm TWA: 140 mg/m ³ STEL: 37.5 ppm STEL: 175 mg/m ³	

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

Physical State	Liquid	Appearance	Pale yellow to lemon yellow
Odor	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

VOC Content (%)	No information available
Flammability Limits in Air	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

Waste from Residues / Unused Products	Dispose of in accordance with local regulations.
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

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, Marine Pollutant (55°C c.c.)
14.5. Marine Pollutant	Product is a marine pollutant according to the criteria set by IMDG/IMO.
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	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

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/

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