

Fragrance Delivery Technologies Ltd.

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SAFETY DATA SHEET

Issuing Date 07-Aug-2013

Revision Date 10-Sep-2021

Revision Number 4

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

1.1. Product identifier Product Name

VIVA!e Cartridge Crush

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 sheetCompanyFragrance Delivery Technologies LTD.LIU 15, RA07AC06 JAFZAP.O.Box 262800Dubai, United Arab EmiratesTEL: +9714 887 0577email: info@oxygenpowered.comFor further information, please contactE-mail Address

1.4. Emergency telephone number	
Emergency Telephone	303-389-1271
Number	855-259-2437

Europe

112

Section 2. Hazards identification

2.1. - Classification of the substance or mixture

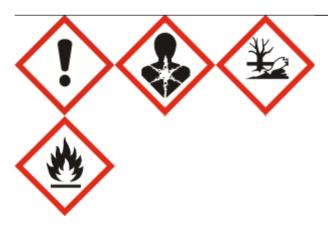
REGULATION (EC) No 1272/2008

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, 3-methyl-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
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-5-pentyl-	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 2), 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	Finlar	nd	France	Germany	Gibra	altar	Greece
D-Limonene	TWA: 25	ppm	TWA: 1000 mg/m ³	TWA: 5 ppm			
5989-27-5	TWA: 140	mg/m ³	STEL: 1500 mg/m ³	TWA: 28 mg/m ³			
	STEL: 50	mqq	Ũ	Ceiling / Peak: 20 ppm			
	STEL: 280			Ceiling / Peak: 112			
		0		mg/m ³			
				Skin			
				Repr*			
				Sen*			
Chemical Name	The Nethe	rlands	Norway	Poland	Portu	ugal	Spain
D-Limonene			TWA: 25 ppm				
5989-27-5			TWA: 140 mg/m ³				
			STEL: 37.5 ppm				
			STEL: 175 mg/m ³				
			Sen*				
Chemical Name			Switzerland	Sweden		The	United Kingdom
D-Limonene			STEL: 14 ppm				
5989-27-5		5	STEL: 80 mg/m ³				
			TWA: 7 ppm				
		-	TWA: 40 mg/m ³				
			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 Eye Protection Skin and Body Protection Hand Protection Respiratory Protection	Personal protection equipment should be chosen according to the CEN standards Tightly fitting safety goggles. Wear suitable protective clothing. Protective gloves. 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

Odor Fruity		
Property Values	Remarks/ - Metho	bd
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	
Flammability Limits in Air No data available	None known	
Vapor Pressure0.934 Pa @ 20 °C	None known	
Vapor Density No data available.	None known	
Relative Density No data available	None known	
Water Solubility Insoluble in water.	None known	
Solubility in other solvents Practically insoluble	None known	
Partition coefficient: n-octanol/waterNo data available	None known	
Autoignition Temperature No data available	None known	
Decomposition Temperature No data available	None known	
Decomposition Temperature No data available	None known	
Viscosity No data available	None known	
Explosive Properties No information available		
Oxidizing Properties No information available		
9.2. Other information		
VOC Content (%) No information available		
Section 10. Stabi	ility and reactivity	

10.1. Reactivity No data available.

10.2. Chemical stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

<u>10.4.</u> 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 condtions.
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, 2-propenyl 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 Mutagenic Effects Carcinogenic Effects	May cause an allergic skin reaction. No information available. 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	May cause disorder and damage to the: Liver
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 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			

WPS-FDT-004 - VIVA!e Cartridge Crush

IMDG/IMO	
14.1. UN-Number	UN1169
14.2. Proper Shipping Name	Extracts, aromatic, liquid
14.3. Hazard Class 14.4. Packing Group	3
Description	UN1169, Extracts, aromatic, liquid, 3, III, Marine Pollutant (54°C c.c.)
14.5. Marine Pollutant	None
Environmental hazard	yes
14.6. Special Provisions	None
EmS No.	F-E, S-D
14.7. Transport in bulk according	No information available.
to Annex II of MARPOL 73/78 and	
the IBC Code	
RID	
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 hazard	yes
14.6. Special Provisions	None
Classification Code	F1
ADR	
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	
Description	UN1169, Extracts, aromatic, liquid, 3, III, (D/E)
14.5. Environmental hazard	yes Nono
14.6. Special Provisions Classification Code	None F1
Classification Code	
ICAO	
14.1. UN-Number	UN1169
14.2. Proper shipping name	Extracts, aromatic, liquid
14.3. Hazard Class	3
14.4. Packing Group Description	III IN1169 Extracts aromatic liquid 3 III
14.5. Environmental hazard	UN1169, Extracts, aromatic, liquid, 3, III ves
14.6. Special Provisions	None
1474	
IATA 14.1 UN Number	1111160
14.1. UN-Number 14.2. Proper Shipping Name	UN1169 Extracts, aromatic, liquid
14.2. Hazard Class	3
14.4. Packing Group	5 III
Description	UN1169, Extracts, aromatic, liquid, 3, III
14.5. Environmental hazard	Ves
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

WPS-FDT-004 - VIVA!e Cartridge Crush

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 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 Date	07-Aug-2013
Revision Date	10-Sep-2021
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