

**Fragrance Delivery Technologies Ltd.**

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# SAFETY DATA SHEET

Issuing Date 26-Apr-2018

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Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

<b>Product Name</b>	VIVA!e CARTRIDGE CRUSH
<b>UN-Number</b>	UN1169
<b>Recommended Use</b>	Air freshener
<b>Restriction on Use</b>	Do not use this product for any use other than intended.
<b>Company</b>	AlSCO NZ Fresh & Clean 354 New North Road Kingsland 1021 Auckland New Zealand TEL +64 309 1003
<b>Supplier</b>	Fragrance Delivery Technologies, LTD P.O.Box 262800 Dubai United Arab Emirates TEL: +9714 887 0577 email: info@oxygenpowered.com
<b>Emergency Telephone Number</b>	+64 27 480 8598 (24H).

## 2. HAZARDS IDENTIFICATION

### Classification

Skin Corrosion/Irritation	Category 2 (HSNO - 6.3A)
Serious Eye Damage/Eye Irritation	Category 2 (HSNO - 6.4A)
Skin Sensitization	Category 1 (HSNO - 6.5B)
Aspiration Toxicity	Category 1 (HSNO - 9.1A)
Flammable liquids	Category 3 (HSNO - 3.1C)
Specific Target Organ Toxicity (Repeated Exposure)	Category 2 (HSNO - 6.3A)

### GHS Label elements, including precautionary statements

Exclamation mark, Health Hazard, Flame

**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

H226 – Flammable liquid and vapor.

H373 – May cause damage to organs through prolonged or repeated exposure

**New Zealand Pesticide Information**

- Not applicable

**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.
- Avoid release to the environment.
- Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wear protective gloves/protective clothing/eye protection/face protection.

**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 skin irritation or rash occurs: Get medical advice/attention.
- Wash contaminated clothing before reuse.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

**Ingestion**

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Do NOT induce vomiting.

**Fire**

- In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction.

**Spills and Leaks**

- Collect spillage.

**Storage**

- Store locked up.
- Store in a well-ventilated place. Keep cool.

**Disposal**

- Dispose of contents/container to an approved waste disposal plant.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Ethyl acetoacetate	141-97-9	25-50
n-Hexyl acetate	142-92-7	10-20
Heptanoic acid, 2-propenyl ester	142-19-8	10-20
Heptanoic acid, ethyl ester	106-30-9	5-10
D-Limonene	5989-27-5	5-10
Acetic acid, (3-methylbutoxy)-, 2-propenyl ester	67634-00-8	5-10
Oxiranecarboxylic acid, 3-methyl-3-phenyl-, ethyl ester	77-83-8	1-5
Ethyl butyrate	105-54-4	1-5
Benzenemethanol, .alpha.-methyl-, acetate	93-92-5	1-5
Allyl caproate	123-68-2	1-5
Cyclohexanepropanoic acid, 2-propenyl ester	2705-87-5	1-5
2(3H)-Furanone, dihydro-5-pentyl-	104-61-0	1-5
Triplal	68039-49-6	0.1-1
Coumarin	91-64-5	0.1-1
Allyl phenoxyacetate	7493-74-5	0.1-1

**4. FIRST AID MEASURES****General Advice**

Poison Control:  
Australia: 13 11 26  
New Zealand: 0800 POISON (0800 764 766)

**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: Wash with plenty of soap and water. Remove and wash contaminated clothing before re-use. If skin irritation or rash occurs: Get medical advice/attention.

**Inhalation**

Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

**Ingestion**

If swallowed: Call a physician or Poison Control Center immediately. Do NOT induce vomiting.

**Notes to Physician**

Aspiration hazard. May cause sensitization by skin contact.

**Protection of First-aiders**

Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**5. FIRE-FIGHTING MEASURES****Hazchem Code**

3Y

**Flammable Properties**

Flammable liquid and vapor.

**Suitable Extinguishing Media**

Use: Carbon dioxide (CO<sub>2</sub>). Alcohol-resistant foam. Foam. Dry chemical.

**Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

**Specific Hazards Arising from the Chemical**

Flammable. Vapors may form explosive mixtures with air. Most vapors are heavier than air. Vapors may spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back.

**Protective Equipment and Precautions for Firefighters**

Wear self-contained breathing apparatus and protective suit.

**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions**

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.

**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.

**Methods for Containment**

Dike to collect large liquid spills.

**Methods for Cleaning Up**

Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Use non-sparking tools and equipment. Use personal protective equipment. Use appropriate tools to put the material into suitable containers for disposal.

**7. HANDLING AND STORAGE****Handling**

Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

**Hygiene Measures**

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

**Storage**

Store in a well-ventilated place. Keep cool.

**Incompatible Products**

Strong oxidizing agents. Strong acids. Strong bases.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

<b>Engineering Measures</b>	Showers Eyewash stations Ventilation systems
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**Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	Tightly fitting safety goggles.
<b>Skin and Body Protection</b>	Wear protective gloves/clothing.
<b>Respiratory Protection</b>	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.

<b>Hygiene Measures</b>	Do not eat, drink or smoke when using this product. Provide regular cleaning of equipment, work area and clothing. 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.
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<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Physical State</b>	Liquid
<b>Appearance</b>	Pale yellow to lemon yellow.
<b>Odor</b>	Fruity
<b>Odor Threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting Point/Range</b>	No data available
<b>Freezing Point</b>	No data available
<b>Initial Boiling Point</b>	No data available
<b>Boiling Point/Boiling Range</b>	No data available
<b>Flash Point</b>	132.8°F / 56°C
<b>Evaporation Rate</b>	No data available
<b>Flammable Properties</b>	Not Flammable
<b>Explosive Properties</b>	No data available
<b>Oxidizing Properties</b>	No data available
<b>Vapor Pressure</b>	0.934 Pa @ 20 °C
<b>Vapor Density</b>	No data available
<b>Specific Gravity</b>	No data available
<b>Water Solubility</b>	Insoluble
<b>Solubility</b>	No data available
<b>Partition Coefficient: n-octanol/water</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature °C</b>	No data available
<b>Viscosity</b>	No data available

<b>10. STABILITY AND REACTIVITY</b>
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<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Heat, flames and sparks.
<b>Incompatible Products</b>	Strong oxidizing agents. Strong acids. Strong bases.
<b>Hazardous Decomposition Products</b>	Carbon oxides.

**Hazardous Polymerization** None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Product Information

**Eye Contact** Causes serious eye irritation.

**Skin Contact** Causes skin irritation. May cause sensitization by skin contact.

**Ingestion** May be fatal if swallowed and enters airways.

**Inhalation** None under normal use conditions

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	= 36229 mg/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	-	> 2000 mg/kg ( Rat )	-
Allyl phenoxyacetate	= 475 µL/kg ( Rat )	= 820 µL/kg ( Rabbit )	-

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

**Skin corrosion/irritation** Causes skin irritation

**Eye damage/irritation** Causes serious eye irritation

**Sensitization** May cause an allergic skin reaction.

**Mutagenic Effects** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	IARC	ACGIH
D-Limonene 5989-27-5 ( 30 - 60 )	Group 3	
Coumarin 91-64-5	Group 3	

#### **IARC: (International Agency for Research on Cancer)**

Group 3 - Not Classifiable as to its Carcinogenicity to Humans

**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

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to aquatic life. Very toxic to aquatic organisms with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
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)
n-Hexyl acetate 142-92-7		LC50 96 h: 3.7 - 4.4 mg/L flow-through (Pimephales promelas)		
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)		
Allyl caproate 123-68-2		LC50 96 h: = 30 mg/L (Carassius auratus)		

### **Persistence and Degradability**

**Global warming potential (GWP)**

**Ozone depletion potential; ODP; (R-11 = 1):**

No information available.

No information available.

Does not contain ozone depleting chemical (40 CFR Part 82).

### **Bioaccumulation**

Chemical Name	Log Pow
Ethyl acetoacetate	0.27

### **Mobility**

No information available

## 13. DISPOSAL CONSIDERATIONS

### **Waste from Residues / Unused Products**

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

### **Contaminated Packaging**

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Contaminated/not cleaned containers should be treated/handled like product waste. Do not allow rinsate from cleaning of equipment or disposed material to enter surface or groundwater.

## 14. TRANSPORT INFORMATION

### ADG/NZDG

<b>UN Number</b>	UN1169
<b>Proper Shipping Name</b>	EXTRACTS, AROMATIC, LIQUID MIXTURE
<b>Hazard Class</b>	3
<b>Packing group</b>	III
<b>Special Provisions</b>	223
<b>Description</b>	UN1169, EXTRACTS, AROMATIC, LIQUID MIXTURE, 3, III
<b>Hazchem Code</b>	3Y

<b>IMDG/IMO</b>	Regulated
Proper Shipping Name	Extracts, aromatic, liquid
Hazard Class	3
UN-Number	UN1169
Packing Group	III
EmS No.	F-E, S-D
Special Provisions	223, 955
Description	UN1169, EXTRACTS, AROMATIC, LIQUID MIXTURE (D-LIMONENE), 3, III, (0°C C.C.), MARINE POLLUTANT

<b>IATA</b>	Regulated
UN-Number	UN1169
Proper Shipping Name	Extracts, aromatic, liquid mixture
Hazard Class	3
Packing Group	III
ERG Code	3L
Description	UN1169, Extracts, aromatic, liquid mixture, 3, III

## 15. REGULATORY INFORMATION

### National Regulations

#### Australia

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)**      No Poisons Schedule number allocated

#### New Zealand

**New Zealand Exposure Limits**      See Section 8 for any applicable Tolerable Exposure or Environmental Exposure Limits

Refer to the EPA User Guide to the HSNO Controls to assist in interpreting the Hazardous Substances controls regulations.

**HSNO Approval Number or Group Standard**      HSR002576 (Food Additives and Fragrance Materials (Flammable) Group Standard 2017)

### International Regulations

Ozone depleting substances	Not applicable
Persistent Organic Pollutants	Not applicable
Hazardous Waste	Not applicable
The Rotterdam Convention (Prior Informed Consent)	Not applicable
International Convention for the Prevention of Pollution from Ships (MARPOL)	Not applicable

### International Inventories

AICS	Contact supplier for inventory compliance status
NZIOC	Contact supplier for inventory compliance status
TSCA	Contact supplier for inventory compliance status
European Union	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status



**ENCS** Contact supplier for inventory compliance status  
**IECSC** Contact supplier for inventory compliance status  
**KECL** Contact supplier for inventory compliance status

**Legend**

**AICS** - Australian Inventory of Chemical Substances  
**NZIOC** - New Zealand Inventory of Chemicals  
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - 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  
**KECL** - Korean Existing and Evaluated Chemical Substances

**16. OTHER INFORMATION**

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

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**Literary Reference** No information available.

**Revision Note** No information available.

**Legend**  
X - Listed  
Skin - Skin absorber  
STEL (Short Term Exposure Limit)  
PEL (Permissible Exposure Limit)  
TWA (Time weighted Average)  
ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value.  
New Zealand WEL - New Zealand Workplace Exposure Limits  
EU: European Union

**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**