

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

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

2. HAZARDS IDENTIFICATION

Classification

Aspiration Toxicity	Category 1 (HSNO - 6.1E)
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)

GHS Label elements, including precautionary statements

Exclamation mark, Health Hazard, Flame

**Signal Word****Warning****Hazard Statements**

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H226 – Flammable liquid and vapor.

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 CO₂, 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 %
D-Limonene	5989-27-5	39.6
Decanal	112-31-2	20
Linalool	78-70-6	16.8
n-Hexyl acetate	142-92-7	15
Octanal	124-13-0	10
Citral	5392-40-5	5
Terpinolene	586-62-9	3.8
Diethyl malonate	105-53-3	3
2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-	63500-71-0	3
p-Cymene	99-87-6	2.3
.alpha.-Pinene	80-56-8	2.3
Allyl caproate	123-68-2	2
2-Heptanol, 2,6-dimethyl-	13254-34-7	2
2(3H)-Furanone, 5-heptyldihydro-	104-67-6	2
Methyl anthranilate	134-20-3	1
Geraniol	106-24-1	1
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-	57378-68-4	1
2,6-Di-tert-butyl-p-cresol	128-37-0	0.5
Butanamide, 2-ethyl-N-methyl-N-(3-methylphenyl)-	406488-30-0	0.3

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 MediaUse: Carbon dioxide (CO₂). 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

Chemical Name	Australia	New Zealand WEL	ACGIH TLV	The United Kingdom	Germany	EU
.alpha.-Pinene 80-56-8			TWA: 20 ppm			

Citral 5392-40-5			TWA: 5 ppm inhalable fraction and vapor S*			
2,6-Di-tert-butyl-p-cresol 128-37-0			TWA: 2 mg/m ³ inhalable fraction and vapor			

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment**Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye/Face Protection

Tightly fitting safety goggles.

Skin and Body Protection

Wear protective gloves/clothing.

Environmental Exposure Controls

No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Pale red to red.
Odor	Citrus.
Odor Threshold	No data available
pH	No data available
Melting Point/Range	No data available
Freezing Point	No data available
Initial Boiling Point	No data available
Boiling Point/Boiling Range	No data available
Flash Point	127.4°F / 53°C
Evaporation Rate	No data available
Flammable Properties	Flammable liquid and vapor
Explosive Properties	No data available
Oxidizing Properties	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Specific Gravity	No data available
Water Solubility	No data available
Solubility	No data available
Partition Coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature °C	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	Heat, flames and sparks.
Incompatible Products	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition Products	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 There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
D-Limonene	5000 mg/kg (Rat)	>5000 mg/kg (Rabbit)	-
n-Hexyl acetate	= 41500 µL/kg (Rat)	> 5 g/kg (Rabbit)	-
Citral	= 4960 mg/kg (Rat)	= 2250 mg/kg (Rabbit)	-
.alpha.-Pinene	= 3700 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
p-Cymene	= 3669 mg/kg (Rat) = 4750 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 9.7 mg/L (Rat) 5 h

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

Acute Toxicity 30.94% of the mixture consists of ingredient(s) of unknown toxicity.

LD50 Oral >2000 mg/kg
LD50 Dermal >2000 mg/kg
Dust/Mist 59.17 mg/L

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	
2,6-Di-tert-butyl-p-cresol 128-37-0	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 May be fatal if swallowed and enters airways

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
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)		
Decanal 112-31-2			EC50 = 2.90 mg/L 25 min EC50 = 3.59 mg/L 15 min EC50 = 4.71 mg/L 5 min	
Linalool 78-70-6	EC50 96 h: = 88.3 mg/L (Desmodemus subspicatus)	LC50 96 h: 22 - 46 mg/L static (Leuciscus idus)		EC50 48 h: = 20 mg/L (Daphnia magna)
n-Hexyl acetate 142-92-7		LC50 96 h: 3.7 - 4.4 mg/L flow-through (Pimephales promelas)		
Citral 5392-40-5	EC50 72 h: = 16 mg/L (Desmodemus subspicatus) EC50 96 h: = 19 mg/L (Desmodemus subspicatus)	LC50 96 h: 4.6 - 10 mg/L static (Leuciscus idus)	EC50 = 2100 mg/L 30 min	EC50 48 h: = 7 mg/L (Daphnia magna)
Diethyl malonate 105-53-3	EC50 72 h: = 508.2 mg/L (Desmodemus subspicatus)	LC50 96 h: 10.3 - 13.4 mg/L flow-through (Pimephales promelas)	EC50 = 3097 mg/L 16 h	EC50 48 h: = 202.3 mg/L (Daphnia magna)
.alpha.-Pinene 80-56-8		LC50 96 h: = 0.28 mg/L static (Pimephales promelas)		LC50 48 h: = 41 mg/L (Daphnia magna)
Allyl caproate 123-68-2		LC50 96 h: = 30 mg/L (Carassius auratus)		
2-Heptanol, 2,6-dimethyl- 13254-34-7	EC50 96 h: = 2.7 mg/L (Pseudokirchneriella subcapitata) EC50 96 h: = 6.2 mg/L (Desmodemus subspicatus) EC50 72 h: = 8.38 mg/L (Desmodemus subspicatus) EC50 96 h: = 9.31 mg/L (Desmodemus subspicatus)	LC50 96 h: 10 - 15 mg/L static (Leuciscus idus) LC50 96 h: 3.6 - 5.1 mg/L static (Lepomis macrochirus) LC50 96 h: 4.78 - 8.85 mg/L static (Oncorhynchus mykiss) LC50 96 h: = 1.04 mg/L flow-through (Pimephales promelas) LC50 96 h: = 10 mg/L static (Leuciscus idus) LC50 96 h: = 5.7 mg/L (Pimephales promelas) LC50 96 h: = 5.77 mg/L (Pimephales promelas) LC50 48 h: = 8.37 mg/L (Leuciscus idus) LC50 48 h: > 5000 mg/L (Leuciscus idus)		EC50 48 h: 4.78 - 8.87 mg/L Static (Daphnia magna) EC50 48 h: = 17.1 mg/L (Daphnia magna) EC50 48 h: = 3 mg/L (Daphnia magna) EC50 48 h: = 320 mg/L (Daphnia magna) EC50 48 h: = 8.5 mg/L (Daphnia magna)
3-hexenol 928-96-1		LC50 96 h: 352 - 412 mg/L flow-through (Pimephales promelas)		
2,6-Di-tert-butyl-p-cresol 128-37-0	EC50 72 h: = 6 mg/L (Pseudokirchneriella subcapitata) EC50 72 h: > 0.42 mg/L (Desmodemus subspicatus)	LC50 48 h: = 5 mg/L (Oryzias latipes)	EC50 = 7.82 mg/L 5 min EC50 = 8.57 mg/L 15 min EC50 = 8.98 mg/L 30 min	

Persistence and Degradability
Global warming potential (GWP)

No information available.
No information available.

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

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

Bioaccumulation

Chemical Name	Log Pow
Linalool	3.1
Citral	2.76
Thymol	3.3
Diethyl malonate	0.96
p-Cymene	4.1
.alpha.-Pinene	4.1
2-Heptanol, 2,6-dimethyl-	3.451
2,6-Di-tert-butyl-p-cresol	4.17

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**

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

IMDG/IMO

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

IATA

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/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**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

Issuing Date	26-Apr-2018
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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