

Fragrance Delivery Technologies Ltd.

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SAFETY DATA SHEET**Issuing Date** 31-Aug-2017**Revision Date** 26-Feb-2023**Revision Number** 3

This document complies with the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico's NMX-R-019-SC-2011.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**GHS product identifier**

Product Name
Crush Oxygen-Pro Regular Cartridge
Crush Oxygen-Pro Grande Cartridge
Crush VIVA!e Cartridge

Other means of identification

UN-Number UN1992

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Air freshener

Uses advised against No information available

Supplier's details**Supplier Address**

Fragrance Delivery Technologies, LTD
P.O.Box 262800
Dubai
United Arab Emirates
TEL: +9714 887 0577
Email: info@oxygenpowered.com

Emergency telephone number

Chemical Emergency Phone Number Chemtrec: 1-800-424-9300 for US/ 703-527-3887 outside US

2. HAZARDS IDENTIFICATION**Classification**

This product is considered hazardous according to the criteria set within the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico's NMX-R-019-SC-2011.

Flammable Liquids	Category 3
Acute Oral Toxicity	Category 4
Acute Inhalation Toxicity	Category 3
Acute Dermal Toxicity	Category 4
Skin Sensitization	Category 1

Label Elements**Signal Word**

Danger

**Hazard Statements**

Flammable liquid and vapor.

Harmful if swallowed or in contact with skin

May cause an allergic skin reaction

Toxic if inhaled

Physical and Health Hazards Not Otherwise Classified

Not applicable.

Precautionary Statements**Prevention**

- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- 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.

General Advice

- Get medical attention/advice if you feel unwell

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: Call a POISON CENTER or doctor/physician if you feel unwell.
- Rinse mouth.

Fire

- In case of fire: Use CO2, dry chemical, or foam for extinction.

Storage

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

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Disposal

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

Other information

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

Please note: Mixtures have not been tested for health hazards. The health hazard information presented is provided in accordance with US 29 CFR 1910.1200 and is based on the testing of individual components which have been shown to cause or may cause these health effects when tested at higher concentrations or at full strength.

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity. See Section 11 for additional Toxicological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

The individual chemical identities of the ingredients of this mixture are considered to be proprietary information and trade secrets in accordance with paragraph (i) of §1910.1200.. As such they are withheld in accordance with the provisions of the law. Certain hazardous substances are listed in the Exposure Controls/Personal Protection section.

Component	CAS-No.	Concentration [%]
ethyl acetoacetate	141-97-9	20.00 - 30.00
hexyl acetate	142-92-7	10.00 - 20.00
2-propenyl heptanoate (= Allyl heptanoate)	142-19-8	10.00 - 20.00
Ethyl heptanoate	106-30-9	1.00 - 10.00
2-propenyl 2(3)-methylbutoxyacetate	67634-00-8	1.00 - 10.00
(R)-1-methyl-4-(1-methylethenyl)-cyclohexene	5989-27-5	1.00 - 10.00
ethyl 2-methylbutanoate	7452-79-1	1.00 - 10.00
2-propenyl hexanoate (= Allyl hexanoate)	123-68-2	1.00 - 10.00
2-propenyl 3-cyclohexylpropanoate (= allyl 3-cyclohexyl propionate)	2705-87-5	1.00 - 10.00
3-methylbut-1-yl acetate	123-92-2	1.00 - 10.00
1-phenylethyl acetate	93-92-5	1.00 - 10.00
Ethyl butyrate	105-54-4	1.00 - 10.00
ethyl 2,3-epoxy-3-phenylbutyrate	77-83-8	1.00 - 10.00
2-propenyl (cyclohexyloxy)acetate	68901-15-5	1.00 - 10.00
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6	0.10 - 1.00
7-methyl-3-methylene-1,6-octadiene (= myrcene)	123-35-3	0.10 - 1.00

4. FIRST AID MEASURES

Description of necessary first-aid measures

General Advice

Move out of dangerous area.

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Consult physician or Poison Control Center. The National Hotline for US Poison Control Centers is 1.800.222.1222; <https://www.poison.org>

Eye Contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation persists.

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.

Inhalation

Call a physician or poison control center immediately. Move to fresh air in case of accidental inhalation of vapors.

Ingestion	Call a POISON CENTER or doctor/physician if exposed or you feel unwell. Rinse mouth. DO NOT induce vomiting. Do not give milk or alcoholic beverages.
Protection of First-aiders	Remove all sources of ignition. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u>	Use: Water spray. Carbon dioxide (CO ₂). Foam.
<u>Unsuitable Extinguishing Media</u>	Do not use a solid water stream as it may scatter and spread fire.
<u>Specific Hazards Arising from the Chemical</u>	Flammable. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). 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.
Explosion Data	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	Yes.
<u>Protective Equipment and Precautions for Firefighters</u>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	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.
<u>Environmental Precautions</u>	
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. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment	Dike far ahead of liquid spill for later disposal.
Methods for Cleaning Up	Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Use clean non-sparking tools to collect absorbed material. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling	Keep away from open flames, hot surfaces and sources of ignition. 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 reuse. Wash thoroughly after handling.
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Conditions for safe storage, including any incompatibilities

Storage	Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed in a dry and well-ventilated place.
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Incompatible Products Strong oxidizing agents, Strong acids, Strong bases,

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
(R)-1-methyl-4-(1-methylethenyl)-cyclohexene 5989-27-5	TWA: 30 ppm	TWA: 30 ppm	
3-methylbut-1-yl acetate 123-92-2	TWA: 100 ppm	100 ppm 525 mg/m3	-

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Tightly fitting safety goggles.

Skin and Body Protection

Wear protective gloves/clothing.

Respiratory Protection

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.

Hygiene Measures

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid.	Appearance	Pale yellow to lemon yellow.
Odor	Fruity.	Odor Threshold	No information available.

<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
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	2.7414 hPa@ 20 °C	Calculated
Vapor Density	No data available	None known
Relative Density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	Insoluble in water.	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
Explosive Properties	No data available	

Oxidizing Properties No data available

Other information

VOC Content (%) No data available

10. STABILITY AND REACTIVITY

Reactivity No data available.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to avoid None known based on information supplied.

Incompatible materials Strong oxidizing agents, Strong acids, Strong bases,

Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	None under normal use conditions
Eye Contact	Irritating to eyes.
Skin Contact	Irritating to skin. May cause sensitization by skin contact.
Ingestion	Harmful if swallowed. Ingestion may cause irritation to mucous membranes.

Numerical measures of toxicity - Product

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

LD50 Oral 875 mg/kg; Acute toxicity estimate

LD50 Dermal 931 mg/kg; Acute toxicity estimate

Unknown acute toxicity 100% of the mixture consists of ingredient(s) of unknown toxicity. See Section 11 for additional Toxicological Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethyl acetoacetate	= 3980 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Hexyl Acetate	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Heptanoic acid, 2-propenyl ester	= 5000 mg/kg (Rat)	= 810 mg/kg (Rabbit)	-
Ethyl heptanoate	> 34,000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
2-propenyl 2(3)-methylbutoxyacetate	= 730 mg/kg (Rat)		
(R)-1-methyl-4-(1-methylethenyl)-cyclohexene	> 5600 mg/kg (Mouse)	> 5000 mg/kg (Rabbit)	-
2-propenyl hexanoate (= Allyl hexanoate)	= 218 mg/kg (Rat)	= 300 mg/kg (Rabbit)	-
2-propenyl 3- cyclohexylpropanoate (= allyl 3- cyclohexyl propionate)	= 1051 mg/kg (Rat)	= 1600 mg/kg (Rabbit)	-
3-methylbut-1-yl acetate	> 5000 g/kg (Rat)	> 5000 g/kg (Rabbit)	-
1-phenylethyl acetate	>5000 mg/kg (Rat)	> 8000 mg/kg (Rabbit)	-
ethyl butyrate	=13050 mg/kg (Rat)	> 5000 g/kg (Rabbit)	-
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	= 3100 g/kg (Rat)	= 5000 g/kg (Rabbit)	-
7-methyl-3-methylene-1,6- octadiene (= myrcene)	> 5000 mg/kg (Rat)	> 5000 g/kg (Rabbit)	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Irritation

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

Skin corrosion/irritation	Harmful if absorbed through skin.
Eye damage/irritation	Vapors may cause irritation to the eyes, respiratory system and the skin.
Respiratory or Skin Sensitization	Causes sensitization.
Germ Cell Mutagenicity	No information available.
Carcinogenicity	Contains no ingredients above reportable quantities listed as a carcinogen.

IARC: (International Agency for Research on Cancer)

Group 2B* - *Listed as a Group 2B possibly carcinogenic to humans by the International Agency for Research on Cancer (IARC).
In our expert opinion, myrcene should not be characterized as possibly carcinogenic to humans.

Reproductive Toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration Hazard	No information available.

Please note: Mixtures have not been tested for health hazards. The health hazard information presented is provided in accordance with US 29 CFR 1910.1200 and is based on the testing of individual components which have been shown to cause or may cause these health effects when tested at higher concentrations or at full strength.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Ecological information is not reported.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	Dispose of in accordance with local, state and federal regulations. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.
Contaminated Packaging	Do not expose containers to high temperatures such as in hot work processes. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

14. TRANSPORT INFORMATION

Note:	This shipping size falls into limited quantity exemptions that do not require labeling or placarding except if transported by aircraft. Under U.S. DOT transportation regulations, this product can be re-classed as a Limited Quantity in accordance with 49 CFR 173.306(i). Under Transport Canada regulations, this product can be re-classed as a Limited Quantity in accordance with Section 1.17. Under IMDG regulations (Amdt 35-10), this product can be re-classed as a Limited Quantity in accordance with Chapter 3.4.
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DOT

UN-Number	UN1992
Proper shipping name	Flammable liquids, toxic, n.o.s. (Hexyl acetate, allyl (2-methylbutoxy)acetate)
Hazard Class	3
Packing Group	III

MEX

UN-Number	UN1992
Proper Shipping Name	Flammable liquids, toxic, n.o.s. (Hexyl acetate, allyl (2-methylbutoxy)acetate)
Hazard Class	3
Packing Group	III

IATA

UN-Number	UN1992
Proper Shipping Name	FLAMMABLE LIQUID, TOXIC, N.O.S. (Hexyl acetate, allyl (2-methylbutoxy)acetate, Allyl 3-cyclohexylpropionate, allyl heptanoate)
Hazard Class	3
Packing Group	III
ERG Code	3L

IMDG/IMO

UN-Number	UN1992
Proper Shipping Name	FLAMMABLE LIQUID, TOXIC, N.O.S. (Hexyl acetate, allyl (2-methylbutoxy)acetate)
Hazard Class	3
Packing Group	III
Marine Pollutant	Yes

15. REGULATORY INFORMATION

Only relevant information is reported

SARA 311/312 Hazards.

Flammable (gases, aerosols, liquids, or solids)
Hazard not otherwise classified (physical hazards)
Acute toxicity (any route of exposure)
Respiratory or skin sensitization

U.S. EPA Label Information**EPA Pesticide Registration Number**

Not applicable

California Proposition 65

This product contains the following ingredients known to State of California to cause, birth defects, or any other reproductive defects:

7-methyl-3-methylene-1,6-octadiene (= myrcene) 123-35-3

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazard 2	Flammability 2	Instability 0	Physical and Chemical Hazards -
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<u>HMIS</u>	Health Hazard 2*	Flammability 2	Physical Hazard 0	Personal Protection X
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**Indicates a chronic health hazard.*

Issuing Date	31-Aug-2017
Revision Date	26-Feb-2023
Revision Note	Formula change

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