

# SAFETY DATA SHEET

Issuing Date 31-Aug-2017

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Revision Number 0

*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 Oxygen-Pro Grande Cartridge Glow

### Other means of identification

UN-Number UN1169

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Fragrances

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

Emergency Telephone Number CHEMTREC: 1(800) 424-9300 (in USA and Canada) or +1-703-527-3887 (international)

## 2. HAZARDS IDENTIFICATION

### Classification

This product is not 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.

Acute Oral Toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 4
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Specific Target Organ Systemic Toxicity (Single Exposure)	Irritating to respiratory system
Flammable liquids	Category 3

### Label Elements

#### Signal Word

Warning



#### Hazard Statements

Harmful if swallowed

Harmful if inhaled

Causes serious eye irritation

May cause an allergic skin reaction Flammable liquid and vapor.

**Physical and Health Hazards Not Otherwise Classified** Not applicable.

#### Precautionary Statements

##### Prevention

- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- 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.
- 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

- None

**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.

**Inhalation**

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell.

**Ingestion**

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

**Fire**

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

**Storage**

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

**Disposal**

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

**Other information**

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Benzaldehyde	100-52-7	25-50	-	-
D-Limonene	5989-27-5	1-10	-	-
Benzaldehyde, 4-methyl-	104-87-0	1-10	-	-
Acetophenone	98-86-2	1-10	-	-
Ionone, .beta. (.beta.-Ionone)	14901-07-6	1-5	-	-
Allyl caproate	123-68-2	1-5	-	-
Isoamyl butyrate	106-27-4	1-5	-	-
n-Hexyl acetate	142-92-7	1-5	-	-
p-Methylacetophenone	122-00-9	1-5	-	-
Butanoic acid, 3-methyl-, ethyl ester	108-64-5	1-5	-	-
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	1-5	-	-
2-Propenal, 2-methyl-3-phenyl-	101-39-3	1-5	-	-
Vanillin	121-33-5	0.1-1.0	-	-
Eugenol	97-53-0	0.1-1.0	-	-
2,6-Di-tert-butyl-p-cresol	128-37-0	0.1-1.0	-	-
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	57378-68-4	0.1-1.0	-	-

2-Buten-1-one, 1-(2,6,6-trimethyl-1,3cyclohexadien-1-yl)-	23696-85-7	0.1-1.0	-	-
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**4. FIRST AID MEASURES**

**Description of necessary 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. Remove and wash contaminated clothing before re-use.

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**Ingestion** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Most important symptoms/effects, acute and delayed**

**Most Important Symptoms/Effects** Itching. Rashes. Irritation.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** May cause sensitization by skin contact. Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media** Use: Water spray. Carbon dioxide (CO<sub>2</sub>). Foam.

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

**Specific Hazards Arising from the Chemical** 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.

**Protective Equipment and Precautions for Firefighters** 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.

**Environmental Precautions**

**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.

**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 personal protective equipment. 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. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges. 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.

**Conditions for safe storage, including any incompatibilities**

**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** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetophenone 98-86-2	TWA: 10 ppm	-	-
2,6-Di-tert-butyl-p-cresol 128-37-0	TWA: 2 mg/m <sup>3</sup> inhalable fraction and vapor	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>

*ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.*

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection**  
**Skin and Body Protection**  
**Respiratory Protection**

Tightly fitting safety goggles.  
 Wear protective gloves/clothing.  
 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**

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. 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

<b>Physical State</b>	<u>and chemical properties</u> Liquid.	<b>Appearance</b>	Pale red to red.
<b>Odor</b>	Cherry.	<b>Odor Threshold</b>	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
	No data available	
<b>pH</b>		None known
<b>Melting Point/Range</b>	No data available	None known
<b>Boiling Point/Boiling Range</b>	No data available	None known
<b>Flash Point</b>	53 °C / 127.4 °F	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
<b>upper flammability limit</b>	No data available No data available	
<b>lower flammability limit</b>	No data available	
<b>Vapor Pressure</b>		None known
<b>Vapor Density</b>	No data available	None known
<b>Relative Density</b>	No data available	None known
<b>Specific Gravity</b>	No data available	None known
<b>Water Solubility</b>	No data available	None known

<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Viscosity</b>	No data available	None known

**Flammable Properties** Flammable.

**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** Heat, flames and sparks.

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

**Hazardous decomposition products** Carbon oxides.

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

<b>Product Information</b>	There is no data available for this product
<b>Inhalation</b>	Harmful if inhaled. Irritating to respiratory system.
<b>Eye Contact</b>	Causes serious eye irritation.
<b>Skin Contact</b>	Causes skin irritation.
<b>Ingestion</b>	Harmful if swallowed.

#### Numerical measures of toxicity - Product

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

LD50 Oral 942 mg/kg; Acute toxicity estimate

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzaldehyde	= 1292 mg/kg ( Rat )	> 1250 mg/kg ( Rabbit )	-
D-Limonene	5000 mg/kg ( Rat )	>5000 mg/kg ( Rabbit )	-
Benzaldehyde, 4-methyl-	= 1600 mg/kg ( Rat )	= 2500 mg/kg ( Rat )	-
Acetophenone	= 815 mg/kg ( Rat ) = 900 mg/kg ( Rat )	= 1760 mg/kg ( Rabbit )	> 2.130 mg/L ( Rat ) 8 h
Allyl caproate	= 218 mg/kg ( Rat )	= 300 mg/kg ( Rabbit )	-
Ionone, .beta. (.beta.-Ionone)	= 4590 mg/kg ( Rat )	-	-
Isoamyl butyrate	> 5 g/kg ( Rat )	> 5 g/kg ( Rabbit )	-
n-Hexyl acetate	= 36229 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	-
p-Methylacetophenone	= 1400 mg/kg ( Rat )	-	-
2-ethyl-3-hydroxy-4-pyrone	= 1150 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	-
2-Propenal, 2-methyl-3-phenyl-	= 2050 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	-
Vanillin	= 1580 mg/kg ( Rat )	> 5010 mg/kg ( Rabbit )	-
Eugenol	= 1930 mg/kg ( Rat )	-	-
2,6-Di-tert-butyl-p-cresol	= 890 mg/kg ( Rat )	-	-

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Rash, Irritation.

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

**Respiratory or Skin Sensitization** May cause sensitization by skin contact.  
**Germ Cell Mutagenicity** No information available.  
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
D-Limonene		Group 3	-	-
Eugenol		Group 3		
2,6-Di-tert-butyl-p-cresol		Group 3	-	-

**IARC: (International Agency for Research on Cancer) Group 3**  
 - Not Classifiable as to its Carcinogenicity to Humans

**Reproductive 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 with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)

Benzaldehyde 100-52-7		LC50 96 h: 0.8 - 1.44 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 10.6 - 11.8 mg/L flowthrough (Oncorhynchus mykiss) LC50 96 h: 6.8 - 8.53 mg/L flow-through (Pimephales promelas) LC50 96 h: = 12.69 mg/L static (Oncorhynchus mykiss) LC50 96 h: = 7.5 mg/L static (Lepomis macrochirus)	EC50 = 4.85 mg/L 30 min EC50 = 5.08 mg/L 15 min EC50 = 6.11 mg/L 5 min	EC50 24 h: = 50 mg/L (Daphnia magna)
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)		
Acetophenone 98-86-2		LC50 96 h: = 155 mg/L static (Pimephales promelas) LC50 96 h: = 162 mg/L flowthrough (Pimephales promelas)	EC50 = 15.5 mg/L 15 min	
Allyl caproate 123-68-2		LC50 96 h: = 30 mg/L (Carassius auratus)		
n-Hexyl acetate 142-92-7		LC50 96 h: 3.7 - 4.4 mg/L flow-through (Pimephales promelas)		
Vanillin 121-33-5		LC50 96 h: 53 - 61.3 mg/L flow-through (Pimephales promelas) LC50 96 h: = 57 mg/L semi-static (Pimephales promelas) LC50 96 h: = 88 mg/L static (Pimephales promelas)	EC50 = 179 mg/L 210 min	EC50 24 h: = 180 mg/L (Daphnia magna)
Eugenol 97-53-0		LC50 67.6 mg/l Oncorhynchus kisutch (Coho salmon) 96 h static		
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 (Desmodesmus 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** No information available.

**Bioaccumulation** No information available.

Chemical Name	Log Pow
Benzaldehyde	1.48
Acetophenone	1.7
Vanillin	1.23
Eugenol	2.27
2,6-Di-tert-butyl-p-cresol	4.17

**Mobility** No information available.

**Other Adverse Effects** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated Packaging** Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.  
D001

**US EPA Waste Number**

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Acetophenone - 98-86-2	U004	Included in waste stream: F039		U004

**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.

**DOT**

**UN-Number** UN1169  
**Proper shipping name** Extracts, aromatic, liquid  
**Hazard Class** 3  
**Packing Group** III  
**Description** UN1169, Extracts, aromatic, liquid, 3, III  
**Emergency Response Guide Number** 127

**TDG**

**UN-Number** UN1169  
**Proper Shipping Name** Extracts, aromatic, liquid  
**Hazard Class** 3  
**Packing Group** III  
**Description** UN1169, Extracts, aromatic, liquid, 3, III

**MEX**

**UN-Number** UN1169  
**Proper Shipping Name** Extracts, aromatic, liquid  
**Hazard Class** 3  
**Packing Group** III  
**Description** UN1169, Extracts, aromatic, liquid, 3, III

**IATA**

**UN-Number** UN1169  
**Proper Shipping Name** Extracts, aromatic, liquid  
**Hazard Class** 3  
**Packing Group** III  
**ERG Code** 3L

**Description** UN1169, Extracts, aromatic, liquid, 3, III Marine Pollutant

**IMDG/IMO**

**UN-Number** UN1169  
**Proper Shipping Name** Extracts, aromatic, liquid  
**Hazard Class** 3  
**Packing Group** III  
**EmS No.** F-E, S-D  
**Description** UN1169, Extracts, aromatic, liquid, 3, III, (53°C c.c.)Marine Pollutant

**15. REGULATORY INFORMATION**

**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**

**TSCA** Complies  
**DSL** Complies

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDL**  
 - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Acetophenone	98-86-2	1-10	1.0

**SARA 311/312 Hazard Categories**

**Acute Health Hazard** Yes  
**Chronic Health Hazard** Yes  
**Fire Hazard** Yes  
**Sudden Release of Pressure Hazard** No  
**Reactive Hazard** No

**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).

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
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Acetophenone	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
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**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Benzaldehyde	X	X	X		X
D-Limonene	X			X	
Acetophenone	X	X	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

**NFPA**                      Health Hazard 2                      Flammability 2                      Instability 0                      Physical and Chemical Hazards -

**HMIS**                      Health Hazard 2\*                      Flammability 2                      Physical Hazard 0                      Personal Protection X  
*\*Indicates a chronic health hazard.*

**Prepared By**                      Product Stewardship  
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 Latham, NY 12110  
 1-800-572-6501

**Issuing Date** 31-Aug-2017    **Revision Date** 28-Aug-2017  
**Revision Note**                      Initial Release.

**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**