HOSPECO

Glow Oxygen Refill

Issue Date	: 20/09/2023
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SAFETY DATA SHEET

Section 1. Identification

Product identifier Glow Oxygen Refill (7829/7859)

Contains 2-Propenal, 2-methyl-3-phenyl-, D-Limonene, Eugenol, Benzaldehyde
Contains 2-ethyl-3-hydroxy-4-pyrone, Benzaldehyde, p-Methylacetophenone, Acetophenone

Product Use Fragrances

Supplier HOSPECO PTY LTD

Address 17 Elizabeth St. Wetherill Park NSW 2164

Telephone 1300 46 77 32

Emergency Number 1800 638 556

Section 2. Hazards identification

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Acute Oral Toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 4
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Chronic Aquatic Toxicity	Category 2

Physical Hazards

Flammable liquids	Category 3

Label Elements

Signal Word **Warning**

Hazard Statements
H302 - Harmful if swallowed
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H411 - Toxic to aquatic life with long lasting effects
Contains 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one, 2-Buten-1-one, 1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-

Precautionary Statements - EU (§28, 1272/2008)
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233 - Keep container tightly closed
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P273 - Avoid release to the environment
P337 + P313 - If eye irritation persists: Get medical advice/ attention
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)
P264 - Wash face, hands and any exposed skin thoroughly after handling
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
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
P273 - Avoid release to the environment
P391 - Collect spillage
P501 - Dispose of contents/ container to an approved waste disposal plant
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
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
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 .?
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

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

Other information
No information available.

Section 3. Composition/information on ingredients

Substances
Mixtures

Chemical Name	EC-No	CAS-No	Weight %	EU - GHS Substance Classification	REACH No.
Benzaldehyde	202-860-4	100-52-7	25-50	Acute Tox. 4 (H302)	No data available
D-Limonene	227-813-5	5989-27-5	1-10	Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Benzaldehyde, 4-methyl-	203-246-9	104-87-0	1-10	Eye Irrit. 2 (H319)	No data available
Acetophenone	202-708-7	98-86-2	1-10	Acute Tox. 4 (H302) Eye Irrit. 2 (H319)	No data available
Ionone, .beta. (.beta.-Ionone)	238-969-9	14901-07-6	1-5	Aquatic Chronic 4 (H413)	No data available
Allyl caproate	204-642-4	123-68-2	1-5	Aquatic Chronic 2 (H411)	No data available
Isoamyl butyrate	203-380-8	106-27-4	1-5	Aquatic Chronic 3 (H412)	No data available
2-ethyl-3-hydroxy-4-pyrone	225-582-5	4940-11-8	1-5	Acute Tox. 4 (H302)	No data available
Vanillin	204-465-2	121-33-5	0.1-1.0	Acute Tox. 4 (H302) Aquatic Chronic 3 (H412)	No data available
Eugenol	202-589-1	97-53-0	0.1-1.0	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	No data available
2,6-Di-tert-butyl-p-cresol	204-881-4	128-37-0	0.1-1.0	Acute Tox. 4 H302 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	No data available

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4. First aid measures

Description of first-aid measures

General Advice	If swallowed, get medical help or contact a Poison Control Center right away. Show this safety data sheet to the doctor in attendance.
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. Remove and wash contaminated clothing before re-use. If skin irritation or rash occurs: Get medical advice/attention.
Ingestion	If swallowed: Call a POISON CENTER or doctor/physician if exposed or you feel unwell. Rinse mouth.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.
Protection of First-aiders	Remove all sources of ignition. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Most important symptoms and effects, both acute and delayed Most

Important Symptoms/Effects	Hives. Itching. Rashes. Irritation.

Indication of immediate medical attention and special treatment needed

Notes to Physician	May cause sensitization of susceptible persons

Section 5. Fire-fighting measures

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.

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 may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

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.

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.

6.4. Reference to other sections
See Section 12 for additional information.

Section 7. Handling and storage

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. 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. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep cool.

Specific end use(s)

Exposure Scenario

No information available.

Other Guidelines

No information available.

Section 8. Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical Name	EU	Austria	Belgium	Cyprus	Denmark
Acetophenone 98-86-2			TWA: 10 ppm TWA: 50 mg/m^3		TWA: 10 ppm TWA: 49 mg/m^3
2,6-Di-tert-butyl-p-cresol 128-37-0		TWA: 10 mg/m^3	TWA: 2 mg/m^3		TWA: 10 mg/m^3
Chemical Name	**Finland**	**France**	**Germany**	**Gibraltar**	**Greece**
Benzaldehyde 100-52-7	TWA: 1 ppm TWA: 4.4 mg/m^3 STEL: 4 ppm STEL: 17.4 mg/m^3 Ceiling: 4 ppm Ceiling: 17.4 mg/m^3				
D-Limonene 5989-27-5	TWA: 25 ppm TWA: 140 mg/m^3 STEL: 50 ppm STEL: 280 mg/m^3	TWA: 1000 mg/m^3 STEL: 1500 mg/m^3	TWA: 5 ppm TWA: 28 mg/m^3 Ceiling / Peak: 20 ppm Ceiling / Peak: 112 mg/m^3 Skin Repr *		

			Sen*		
Acetophenone 98-86-2	TWA: 5 ppm TWA: 25 mg/m3				
Eugenol 97-53-0			Sen*		
2,6-Di-tert-butyl-p-cresol 128-37-0	TWA: 10 mg/m3 STEL: 20 mg/m3	TWA: 10 mg/m3	TWA: 10 mg/m3 Ceiling / Peak: 40 mg/m3 Carc* Repr*		TWA: 10 mg/m3

Chemical Name	Ireland	Italy	Lithuania	Luxembourg	Malta
Benzaldehyde 100-52-7			TWA: 5 mg/m3		
Acetophenone 98-86-2	TWA: 10 ppm TWA: 49 mg/m3 STEL: 30 ppm STEL: 147 mg/m3	TWA: 10 ppm TWA: 49 mg/m3	TWA: 5 mg/m3 Skin		
2,6-Di-tert-butyl-p-cresol 128-37-0	TWA: 10 mg/m3 STEL: 30 mg/m3	TWA: 2 mg/m3 Carc*			

Chemical Name	The Netherlands	Norway	Poland	Portugal	Spain
Benzaldehyde 100-52-7			TWA: 10 mg/m3 STEL: 40 mg/m3		
D-Limonene 5989-27-5		TWA: 25 ppm TWA: 140 mg/m3 STEL: 37.5 ppm STEL: 175 mg/m3 Sen*			
Acetophenone 98-86-2			TWA: 50 mg/m3 STEL: 100 mg/m3	TWA: 10 ppm	TWA: 10 ppm TWA: 50 mg/m3
2,6-Di-tert-butyl-p-cresol 128-37-0				TWA: 2 mg/m3 Carc*	TWA: 10 mg/m3

Chemical Name	Switzerland	Sweden	The United Kingdom
D-Limonene 5989-27-5	STEL: 14 ppm STEL: 80 mg/m3 TWA: 7 ppm TWA: 40 mg/m3 Sen*		
2,6-Di-tert-butyl-p-cresol 128-37-0	STEL: 40 mg/m3 TWA: 10 mg/m3 Carc*		TWA: 10 mg/m3 STEL: 30 mg/m3

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 (PNEC)	No information available.

Exposure controls

Engineering Measures	Showers Eyewash stations Ventilation systems
Personal protective equipment	Personal protection equipment should be chosen according to the CEN standards
Eye Protection	Tightly fitting safety goggles.
Skin and Body Protection	Wear suitable protective clothing.
Hand Protection	Protective gloves.
Respiratory Protection	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

Information on basic physical and chemical properties

Physical State	Liquid	**Appearance**	Pale red to red
Odor	Cherry		

Property	Values	Remarks/ - Method
pH	No data available	None known
Melting Point/Range	No data available	None known
Flash Point	53 °C / 127.4 °F	None
Evaporation rate	No data available	known
Flammability (solid, gas)	No data available	None
Flammability Limits in Air	No data available	known
		None
		known
		None
		known
Vapor Pressure	No data available.	None known
Vapor Density	No data available.	None known
Relative Density	No data available	None known
Water Solubility	No data available	None known
Solubility in other solvents	No data available	None known
Boiling Point/Boiling Range	No data available	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
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known

Explosive Properties	No information available
Oxidizing Properties	No information available

Other information

VOC Content (%)	No information available

Section 10. Stability and reactivity

Reactivity
No data available.

Chemical stability
Stable under normal conditions.

Possibility of hazardous reactions

Conditions to avoid
Heat, flames and sparks.

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

Hazardous decomposition products
Carbon oxides.

Section 11. Toxicological information

Information on toxicological effects Acute

Toxicity

Product Information	.
Inhalation	Harmful by inhalation.
Eye Contact	Causes serious eye irritation.
Skin Contact	May cause sensitization by skin contact.
Ingestion	Harmful if swallowed.

Acute Toxicity 12.6% 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	1,069.00 mg/kg
LD50 Dermal	1,415.00 mg/kg
Gas	99,999.00 mg/L
Dust/Mist	99,999.00 mg/L
Vapor	99,999.00 mg/L

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	= 41500 µL/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)	-	-

Sensitization May cause sensitization by skin contact. May cause an allergic skin reaction.
Mutagenic Effects No information available.
Carcinogenic Effects 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 No information available.
Aspiration Hazard No information available.

Section 12. Ecological information

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)
Benzaldehyde		LC50 96 h: 0.8 - 1.44 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 10.6 - 11.8 mg/L flow-through (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	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)

		macrochirus)		
D-Limonene		LC50 96 h: 0.619 - 0.796 mg/L flow-through (Pimephales promelas) LC50 96 h: = 35 mg/L (Oncorhynchus mykiss)		
Acetophenone		LC50 96 h: = 155 mg/L static (Pimephales promelas) LC50 96 h: = 162 mg/L flow-through (Pimephales promelas)	EC50 = 15.5 mg/L 15 min	
Allyl caproate		LC50 96 h: = 30 mg/L (Carassius auratus)		
Vanillin		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		LC50 67.6 mg/l Oncorhynchus kisutch (Coho salmon) 96 h static		
2,6-Di-tert-butyl-p-cresol	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.

Bioaccumulative potential

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 in soil

Adsorbs on soil.

Results of PBT and vPvB assessment

No information available.

Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

Section 13. Disposal considerations

Waste treatment methods

Waste from Residues / Unused Products	Dispose of in accordance with local regulations.
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
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

IMDG/IMO

14.1. UN-Number	UN1169
14.2. Proper Shipping Name	Extracts, aromatic, liquid
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1169, Extracts, aromatic, liquid, 3, III, (53°C c.c.)Marine Pollutant
14.5. Marine Pollutant	Product is a marine pollutant according to the criteria set by IMDG/IMO
Environmental hazard	yes
14.6. Special Provisions	None
EmS No.	F-E, S-D
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available.

RID

14.1. UN-Number	UN1169
14.2. Proper Shipping Name	Extracts, aromatic, liquid
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1169, Extracts, aromatic, liquid, 3, III Marine Pollutant
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	III
Description	UN1169, Extracts, aromatic, liquid, 3, III, (D/E) Marine Pollutant
14.5. Environmental hazard	yes
14.6. Special Provisions	None
Classification Code	F1

ICAO

14.1. UN-Number	UN1169
14.2. Proper shipping name	Extracts, aromatic, liquid
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1169, Extracts, aromatic, liquid, 3, III Marine Pollutant
14.5. Environmental hazard	yes
14.6. Special Provisions	None

IATA

14.1. UN-Number	UN1169
14.2. Proper Shipping Name	Extracts, aromatic, liquid
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1169, Extracts, aromatic, liquid, 3, III Marine Pollutant
14.5. Environmental hazard	yes
14.6. Special Provisions	None
ERG Code	3L

Section 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

TSCA	Complies
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

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
H302 - Harmful if swallowed
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
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

Disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. It is the user's responsibility to determine the safe conditions of use.