



HOSPECO

Zeal Oxygen Refill

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SAFETY DATA SHEET

Section 1. Identification

Product identifier Zeal Oxygen Refill (7829/7859)

Contains Geraniol, Citral, D-Limonene, Linalool

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

Aspiration Toxicity	Category 1
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Acute Aquatic Toxicity	Category 1
Chronic Aquatic Toxicity	Category 1

Physical Hazards

Flammable liquids	Category 3
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Label Elements



Signal Word

Danger

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

H410 - Very toxic to aquatic life with long lasting

effects H226 - Flammable liquid and vapor

Contains Carvone, Trans-hex-2-enal, Benzeneacetaldehyde, 6-Octenal, 3,7-dimethyl-

Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician P333 +

P313 - If skin irritation or rash occurs: Get medical advice/ attention

P337 + P313 - If eye irritation persists: Get medical advice/ attention

P370 + P378 - In case of fire: Use carbon dioxide, alcohol-resistant foam, or water spray for extinction

P273 - Avoid release to the environment

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

P312 - Call a POISON CENTER or doctor/ physician if you feel unwell

P322 - Specific measures (see supplemental first aid instructions on this label)

P332 + P313 - If skin irritation occurs: Get medical advice/ attention

P362 - Take off contaminated clothing and wash before reuse

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

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

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

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician P331 -

Do NOT induce vomiting

P405 - Store locked up

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 .?

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.
D-Limonene	227-813-5	5989-27-5	5-<50	Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119529223-47
n-Hexyl acetate	205-572-7	142-92-7	0.1-<20	EFFA: EH A2; FL 3; SCI 3	01-2119976337-25
Dihydromyrcenol	242-362-4	18479-58-8	1-<20		No data available
Eucalyptol	207-431-5	470-82-6	1-<15	EFFA: ATO 5; FL 3; SCI 3	01-2119967772-24
Octanal	204-683-8	124-13-0	1-<5		01-211938274-38
Geraniol	203-377-1	106-24-1	1-<5		01-2119552430-49
Ethyl hexanoate	204-640-3	123-66-0	1-<5		No data available
Decanal	203-957-4	112-31-2	1-<5		01-2119967771-26
Citral	226-394-6	5392-40-5	0.1-<5	Skin Irrit. 2 (H315) Skin Sens. 1 (H317)	01-2119462829-23
Benzenepropanal, .alpha.-met hyl-4-(1-methylethyl)-	203-161-7	103-95-7	0.1-<5		01-2119970582-32
Allyl (3-methylbutoxy)acetate	266-803-5	67634-00-8	1-<5	ATO 4-SCI 2;H302-H315	No data available
2-t-butylcyclohexyl acetate	201-828-7	88-41-5	1-<5		No data available
Thymol	201-944-8	89-83-8	1-<3	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Aquatic Chronic 2 (H411)	01-2119511177-46
Pinene	215-533-6	1330-16-1	1-<3		No data available
Isocyclocitral	215-638-7	1335-66-6	1-<3		No data available
Carvone	229-352-5	6485-40-1	0.1-<1	Skin Sens. 1 (H317)	01-2119962458-25

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	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If skin irritation or rash occurs: Get medical advice/attention.
Ingestion	If swallowed: Call a physician or Poison Control Center immediately. Do NOT induce vomiting.
Inhalation	IF exposed or concerned: Get medical advice/ attention.
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 Irritation. Itching. Rashes.

Indication of immediate medical attention and special treatment needed

Notes to Physician Aspiration hazard. May cause sensitization of susceptible persons.

Section 5. Fire-fighting measures

Extinguishing media

Suitable Extinguishing Media

Use: Water spray. Carbon dioxide (CO₂). Alcohol-resistant 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. Vapors or dust may form explosive mixtures with air. Vapors may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.). 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

Personal precautions, protective equipment and emergency procedures

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 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). Non-sparking tools should be used. Use personal protective equipment. Sweep up and shovel into suitable containers for disposal.

Reference to other sections

See Section 12 for additional information.

Section 7. Handling and storage

Precautions for Safe Handling

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. Use only non-sparking tools. Take precautionary measures against static discharges. Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

Hygiene Measures

When using, do not eat, drink or smoke. 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.

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	Finland	France	Germany	Gibraltar	Greece
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*		
Geraniol 106-24-1			Sen*		
Pinene 1330-16-1		TWA: 1000 mg/m ³ STEL: 1500 mg/m ³			
Chemical Name	Ireland	Italy	Lithuania	Luxembourg	Malta
Citral 5392-40-5		TWA: 5 ppm TWA: 31 mg/m ³ Skin Sen* Carc *			
Chemical Name	The Netherlands	Norway	Poland	Portugal	Spain
D-Limonene 5989-27-5		TWA: 25 ppm TWA: 140 mg/m ³ STEL: 37.5 ppm STEL: 175 mg/m ³ Sen*			
Citral 5392-40-5			TWA: 27 mg/m ³ STEL: 54 mg/m ³	Sen*	TWA: 5 ppm Skin
Chemical Name	Switzerland		Sweden	The United Kingdom	
D-Limonene 5989-27-5	STEL: 14 ppm STEL: 80 mg/m ³ TWA: 7 ppm TWA: 40 mg/m ³ Sen*				

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 protective gloves/clothing. **Hand Protection** Protective gloves.

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

Environmental Exposure Controls Do not allow material to contaminate ground water system.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid	Appearance	Colorless, Pale yellow, Red
Odor	Varies with fragrance		
<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	51-55 °C / 123.8-131 °F	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air	No data available	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	
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 information available	
Oxidizing Properties	No information available	
9.2. 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

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong acids. Strong oxidizing agents. Strong bases.

Hazardous decomposition products

Carbon oxides

Section 11. Toxicological information

Information on toxicological effects

Acute Toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation

There is no data available for this product.

Eye Contact

Causes serious eye irritation.

Skin Contact

Causes skin irritation.

Ingestion

May be fatal if swallowed and enters airways.

Acute Toxicity

30.94% 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 >2000 mg/kg

LD50 Dermal >2000 mg/kg

Inhalation

No information available.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
D-Limonene	5000 mg/kg (Rat)	>5000 mg/kg (Rabbit)	-
n-Hexyl acetate	= 36229 mg/kg (Rat)	> 5 g/kg (Rabbit)	
Dihydromyrcenol	= 3600 mg/kg (Rat)	> 5 g/kg (Rabbit)	
Eucalyptol	= 2480 mg/kg (Rat)		
Citral	= 4960 mg/kg (Rat)	= 2250 mg/kg (Rabbit)	
Geraniol	= 3600 mg/kg (Rat)	> 5 g/kg (Rabbit)	
Decanal	= 3730 µL/kg (Rat)	= 5040 µL/kg (Rabbit)	
Methyl salicylate	= 887 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	
Benzenepropanal,.alpha.-methyl-4-(1-methylethyl)-	= 3810 mg/kg (Rat)	> 5 g/kg (Rat)	
Linalool	2790 mg/kg (Rat)	5610 mg/kg (Rat)	-
Camphene	> 5 g/kg (Rat)	> 2500 mg/kg (Rabbit)	= 17100 mg/m ³ (Rat) 1 h
2-t-butylcyclohexyl acetate	= 4600 mg/kg (Rat)	> 5 g/kg (Rabbit)	
Oils, thyme	= 2840 mg/kg (Rat)	> 5 g/kg (Rabbit)	
2-Buten-1-ol, 3-methyl-, acetate	= 2900 mg/kg (Rat)	> 5 g/kg (Rabbit)	
Bicyclo[4.1.0]hept-3-ene, 3,7,7-trimethyl-	= 4800 mg/kg (Rat)		
Citronellol	= 3450 mg/kg (Rat)	= 2650 mg/kg (Rabbit)	
6-Octenal, 3,7-dimethyl-	= 2420 mg/kg (Rat)	> 2500 mg/kg (Rabbit)	
Ionone, .beta. (.beta.-lonone)	= 4590 mg/kg (Rat)		
Carvone	= 1640 mg/kg (Rat)		
p-Cymene	= 4750 mg/kg (Rat) = 3669 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 9.7 mg/L (Rat) 5 h
Isoeugenol	= 1560 mg/kg (Rat)		
Pin-2(3)-ene	= 3700 mg/kg (Rat)	> 5000 mg/kg (Rat)	
P-mentha 1,3-diene	= 1680 mg/kg (Rat)		
Terpinolene	= 4390 mg/kg (Rat)		

Sensitization

Mutagenic Effects

Carcinogenic Effects

Reproductive Toxicity

Developmental Toxicity

STOT - single exposure

STOT - repeated exposure

Aspiration Hazard

May cause an allergic skin reaction.

No information available.

No information available.

No information available.

No information available.

No information available.

No information available.

May be fatal if swallowed and enters airways.

Section 12. Ecological information

Toxicity

Ecotoxicity Effects

Very 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)
D-Limonene		LC50 96 h: 0.619 - 0.796 mg/L flow-through (Pimephales promelas) LC50 96 h: = 35 mg/L (Oncorhynchus mykiss)		
n-Hexyl acetate		LC50 96 h: 3.7 - 4.4 mg/L flow-through (Pimephales promelas)		
Eucalyptol		LC50 96 h: 95.4 - 109 mg/L flow-through (Pimephales promelas)		
Ethyl hexanoate		LC50 96 h: 8.02 - 9.97 mg/L flow-through (Pimephales promelas)		
Citral	EC50 72 h: = 16 mg/L (Desmodesmus subspicatus) EC50 96 h: = 19 mg/L (Desmodesmus 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)
Thymol		LC50 96 h: = 3.2 mg/L static (Pimephales promelas) LC50 96 h: = 5 mg/L static (Brachydanio rerio)		

Persistence and degradability

No information available.

Bioaccumulative potential

Chemical Name	Log Pow
Citral	2.76
Thymol	3.3

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. Do not burn, or use a cutting torch on, the empty drum.

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, Marine Pollutant (55°C c.c.)
14.5. Marine Pollutant	This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO; 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
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)
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
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
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

Contact supplier for inventory compliance status

TSCA	Complies
DSL/NDSL	Complies

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

H314 - Causes severe skin burns and eye damage H315

- Causes skin irritation

H317 - May cause an allergic skin reaction

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

Key literature references and sources for data

www.ChemADVISOR.com/

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.