HOSPECO

Zing Oxygen Refill

Issue Date	: 20/09/2023
Revision Date	:
Revision No	: 00

SAFETY DATA SHEET

Section 1. Identification

Product identifier Zing Oxygen Refill (7826/7867)

Contains Citral, D-Limonene, .alpha.-Pinene

Contains D-Limonene, Citral, .alpha.-Pinene, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one

Product Use Air Freshener

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
Skin Sensitization	Category 1
Acute Aquatic Toxicity	Category 1
Chronic Aquatic Toxicity	Category 1

Physical Hazards

Flammable liquids	Category 3

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
H410 - Very toxic to aquatic life with long lasting
effects H226 - Flammable liquid and vapor
EUH210 - Safety data sheet available on request

Precautionary Statements - EU (§28, 1272/2008)
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P280 - Wear eye protection/ face protection
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician P302 +
P352 - IF ON SKIN: Wash with plenty of soap and water
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing
P370 + P378 - In case of fire: Use carbon dioxide, alcohol-resistant foam, or water spray for extinction
Precautionary Statements
P264 - Wash face, hands and any exposed skin thoroughly after handling
P332 + P313 - If skin irritation occurs: Get medical advice/ attention
P362 - Take off contaminated clothing and wash before reuse
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
P363 - Wash contaminated clothing before reuse
P273 - Avoid release to the environment
P391 - Collect spillage
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
P403 + P235 - Store in a well-ventilated place. Keep cool
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

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	39.6	Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Decanal	203-957-4	112-31-2	20	Skin Irrit. 2 (H315) Aquatic Chronic 3 (H412)	No data available
Citral	226-394-6	5392-40-5	5	Skin Irrit. 2 (H315) Skin Sens. 1 (H317)	No data available
Terpinolene	209-578-0	586-62-9	3.8	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)	No data available
p-Cymene	202-796-7	99-87-6	2.3	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411)	No data available
.alpha.-Pinene	201-291-9	80-56-8	2.3	Asp. Tox. 1 (H304) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Methyl anthranilate	205-132-4	134-20-3	1	Eye Irrit. 2 (H319)	No data available
2,12-Tridecadienenitrile-(E)	-	124071-40-5	1		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

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 skin with soap and water. 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 experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
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 Itching, Rashes, Irritation.

Indication of immediate medical attention and special treatment needed

Notes to Physician May cause sensitization of susceptible persons. Treat symptomatically.

Section 5. Fire-fighting measures

Extinguishing media

Suitable Extinguishing Media
Use: Carbon dioxide (CO_2). Dry chemical. Foam. Water spray.

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 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.

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 open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Wear personal protective equipment. Use spark-proof tools and explosion-proof equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

Hygiene Measures
When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

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
p-Cymene 99-87-6					TWA: 25 ppm TWA: 135 mg/m^3
.alpha.-Pinene 80-56-8			TWA: 20 ppm		
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*		
Terpinolene 586-62-9		TWA: 1000 mg/m^3 STEL: 1500 mg/m^3			
p-Cymene 99-87-6		TWA: 150 mg/m^3 TWA: 1000 mg/m^3 STEL: 1500 mg/m^3			
.alpha.-Pinene 80-56-8		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/m³ Skin Sen* Carc*			
p-Cymene 99-87-6			TWA: 25 ppm TWA: 140 mg/m³ STEL: 35 ppm STEL: 190 mg/m³		
.alpha.-Pinene 80-56-8		TWA: 20 ppm TWA: 111 mg/m³ Sen* Carc*	TWA: 25 ppm TWA: 150 mg/m³ STEL: 50 ppm STEL: 300 mg/m³		
Chemical Name	**The Netherlands**	**Norway**	**Poland**	**Portugal**	**Spain**
D-Limonene 5989-27-5		TWA: 25 ppm TWA: 140 mg/m³ STEL: 37.5 ppm STEL: 175 mg/m³ Sen*			
Citral			TWA: 27 mg/m^3	Sen*	TWA: 5 ppm

5392-40-5			STEL: 54 mg/m³		Skin
.alpha.- Pinene 80-56-8		TWA: 25 ppm TWA: 140 mg/m³ STEL: 25 ppm STEL: 140 mg/m³ Skin		TWA: 20 ppm Sen* Carc*	TWA: 20 ppm TWA: 113 mg/m³ Sen*

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*		
p-Cymene 99-87-6		LLV: 25 ppm LLV: 140 mg/m³ Indicative STLV: 35 ppm Indicative STLV: 190 mg/m³	
.alpha.-Pinene 80-56-8		LLV: 25 ppm LLV: 150 mg/m³ Indicative STLV: 50 ppm Indicative STLV: 300 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 None under normal use conditions.
Personal protective equipment Personal protection equipment should be chosen according to the CEN standards
Eye Protection No special protective equipment required. If splashes are likely to occur, wear:. Goggles.
Skin and Body Protection No protective equipment is needed under normal use conditions. 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

Information on basic physical and chemical properties

Physical State	Liquid	**Appearance**	Clear pale red to red liquid
Odor	Citrus		

Property	Values	Remarks/ - Method
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	57 °C	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	

9.1. 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

No information available.

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. May cause sensitization by skin contact.
Ingestion	May be fatal if swallowed and enters airways.

Acute Toxicity 20% 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	5,946.00 mg/kg
LD50 Dermal	6,812.00 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
D-Limonene	5000 mg/kg (Rat)	>5000 mg/kg (Rabbit)	-
Decanal	= 3730 µL/kg (Rat)	= 5040 µL/kg (Rabbit)	
Octanal	= 4616 mg/kg (Rat)	= 5207 mg/kg (Rabbit)	> 4.7 mg/L (Rat) 4 h
Citral	= 4960 mg/kg (Rat)	= 2250 mg/kg (Rabbit)	
Terpinolene	= 4390 mg/kg (Rat)		
p-Cymene	= 3669 mg/kg (Rat) = 4750 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 9.7 mg/L (Rat) 5 h
.alpha.-Pinene	= 3700 mg/kg (Rat)	> 5000 mg/kg (Rat)	
2-Heptanol, 2,6-dimethyl-	= 6800 mg/kg (Rat)	> 5 g/kg (Rabbit)	
Methyl anthranilate	= 2910 mg/kg (Rat)	> 5 g/kg (Rabbit) > 2000 mg/kg (Rat)	
n-Hexyl acetate	= 36229 mg/kg (Rat)	> 5 g/kg (Rabbit)	
3-hexenol	= 4700 mg/kg (Rat)	= 5000 mg/kg (Rabbit) > 5 g/kg (Rabbit)	
2,6-Di-tert-butyl-p-cresol	890 mg/kg (Rat)	-	-
Nonanal	> 5 g/kg (Rat)	> 5000 mg/kg (Rabbit)	0.6 - 3.8 mg/L (Rat) 4 h

Sensitization	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	May be fatal if swallowed and enters airways

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)
D-Limonene		LC50 96 h: 0.619 - 0.796 mg/L flow-through (Pimephales promelas) LC50 96 h: = 35 mg/L (Oncorhynchus mykiss)		
Decanal			EC50 = 2.90 mg/L 25 min EC50 = 3.59 mg/L 15 min EC50 = 4.71 mg/L 5 min	
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)
.alpha.-Pinene		LC50 96 h: = 0.28 mg/L static (Pimephales promelas)		LC50 48 h: = 41 mg/L (Daphnia magna)

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Chemical Name	Log Pow
Citral	2.76
p-Cymene	4.1
.alpha.-Pinene	4.1

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	Do not re-use empty containers. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. 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 solution
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1169, Extracts, aromatic, liquid solution, 3, III, (57°C c.c.), Marine Pollutant, Limited Quantity
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 solution
14.3. Hazard Class	3
14.4. Packing Group	III

Description	UN1169, Extracts, aromatic, liquid solution, 3, III, Limited Quantity
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 solution
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1169, Extracts, aromatic, liquid solution, 3, III, (E), Limited Quantity
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 solution
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1169, Extracts, aromatic, liquid solution, 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 solution
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1169, Extracts, aromatic, liquid solution, 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

TSCA	Complies
EINECS/ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Not determined
IECSC	Complies
AICS	Complies
KECL	Not determined

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
H315 - Causes skin irritation
H412 - Harmful to aquatic life with long lasting effects
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting
effects H319 - Causes serious eye irritation
H317 - May cause an allergic skin reaction
H304 - May be fatal if swallowed and enters airways
H411 - Toxic to aquatic life with long lasting effects
H226 - Flammable liquid and vapor

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.