



Adro Oxygen Refill

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HOSPECO

SAFETY DATA SHEET

Section 1. Identification

Product identifier Adro Oxygen Refill (7832 / 7863)

Contains D-Limonene, Coumarin

Contains D-Limonene, Cinnamaldehyde, Coumarin

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

(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
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Label Elements

Pictogram



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

Contains Eugenol, .alpha.-Pinene, 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-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

P273 - Avoid release to the environment

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

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

Do NOT induce vomiting

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

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

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

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 .?

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

3.1. Mixtures

Chemical Name	EC-No	CAS-No	Weight %	EU - GHS Substance Classification	REACH No.
D-Limonene	227-813-5	5989-27-5	25-50	Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
n-Hexyl acetate	205-572-7	142-92-7	20-25	EFFA: EH A2; FL 3; SCI 3	No data available
Coumarin	202-086-7	91-64-5	1-5	Skin Sens. 1 (H317)	No data available
Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-	214-946-9	1222-05-5	1-2.5	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Eugenol	202-589-1	97-53-0	0.1-1	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	No data available
.alpha.-Pinene	201-291-9	80-56-8	0.1-1	Asp. Tox. 1 (H304) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexe n-1-yl)-	260-709-8	57378-68-4	0.1-0.25	Skin Sens. 1 (H317)	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

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention immediately if symptoms occur.

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 physician or Poison Control Center immediately. Do NOT induce vomiting.

Inhalation 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 Aspiration hazard. May cause sensitization of susceptible persons. Treat symptomatically.

Section 5. Fire-fighting measures

Extinguishing media Suitable

Extinguishing Media

Use: Water spray. Carbon dioxide (CO₂). 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

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.

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

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.

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

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
.alpha.- Pinene 80-56-8			TWA: 20 ppm		
Chemical Name	Finland	France	Germany	Gibraltar	Greece
D- Limonen e 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* Sen*		
Eugen ol 97- 53-0					
.alpha.- Pinene 80-56-8		TWA: 1000 mg/m ³ STEL: 1500 mg/m ³			
Chemical Name	Ireland	Italy	Lithuania	Luxembourg	Malta
.alpha.-Pinene 80-56-8		TWA: 20 ppm TWA: 111 mg/m ³ Sen* Carc*	TWA: 25 ppm TWA: 150 mg/m ³ STEL: 50 ppm STEL: 300 mg/m ³		
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*			
.alpha.-Pinene 80-56-8		TWA: 25 ppm TWA: 140 mg/m ³ STEL: 25 ppm STEL: 140 mg/m ³ Skin		TWA: 20 ppm Sen* Carc*	TWA: 20 ppm TWA: 113 mg/m ³ Sen*

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*		
.alpha.- Pinene 80-56-8		LLV: 25 ppm LLV: 150 mg/m ³ Indicative STLV: 50 ppm	
		Indicative STLV: 300 mg/m ³	

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 Colorless to pale yellow
Odor Fruity, Spicy

<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	54 °C / 129.2 °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	0.929 Pa @ 20 °C	None known
Vapor Density	No data available.	None known
Relative Density	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
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

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions**10.4. Conditions to avoid**

Heat, flames and sparks.

10.5. Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases.

10.6. 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

None under normal use conditions.

Eye Contact

May cause irritation.

Skin Contact

Causes skin irritation. May cause sensitization by skin contact. May be harmful in contact with skin.

Ingestion

Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.

Acute Toxicity

9.0712% 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 3,917.00 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)	-
n-Hexyl acetate	= 41500 µL/kg (Rat)	> 5 g/kg (Rabbit)	
Cinnamaldehyde	= 2220 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	
Coumarin	-	> 2000 mg/kg (Rat)	
Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-h examethyl-	> 3250 mg/kg (Rat)	> 3250 mg/kg (Rabbit)	
Naphthalene, 2-methoxy-	> 5 g/kg (Rat)	> 5 g/kg (Rabbit)	
Eugenol	= 1930 mg/kg (Rat)		

.alpha.-Pinene	= 3700 mg/kg (Rat)	> 5000 mg/kg (Rat)	
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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	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)		
Eugenol		LC50 67.6 mg/l Oncorhynchus kisutch (Coho salmon) 96 h static		
.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
Eugenol	2.27
.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

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, (54°C c.c.) Marine Pollutant

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

RID

No information available.

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

Classification is according to Globally Harmonized System of Classification and Labelling of Chemicals including Work, Health and Safety regulation Australia.

MOM –The Workplace Safety and Health Act, the Workplace Safety and Health (General Provisions) Regulations. NEA

– Environmental Protection and Management Act, Regulations.

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

H304 - May be fatal if swallowed and enters airways

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

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.