



# Tang Oxygen Refill

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HOSPECO

## SAFETY DATA SHEET

### Section 1. Identification

**Product identifier** Tang Oxygen Refill (7828/7858)  
*Contains Citral, D-Limonene*  
*Contains Citral, D-Limonene, 6-Octenal, 3,7-dimethyl-*

**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**

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

**Physical Hazards**

Flammable liquids	Category 3
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Label Elements



**Signal Word**

**Warning**

**Hazard Statements**

H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction H319  
- Causes serious eye irritation  
H411 - 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 P264 -  
Wash face, hands and any exposed skin thoroughly after handling P370 + P378 - In  
case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention

**Precautionary Statements**

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  
P501 - Dispose of contents/ container to an approved waste disposal plant 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  
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  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection  
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

**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.
Decanal	203-957-4	112-31-2	25-<50	Skin Irrit. 2 (H315) Aquatic Chronic 3 (H412)	No data available
Octanal	204-683-8	124-13-0	10-<15		No data available
Citral	226-394-6	5392-40-5	10-<15	Skin Irrit. 2 (H315) Skin Sens. 1 (H317)	No data available
D-Limonene	227-813-5	5989-27-5	5-<10	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	3-<5	EFFA: EH A2; FL 3; SCI 3	No data available
6-Octenal, 3,7-dimethyl-	203-376-6	106-23-0	3-<5		No data available
Triplal	268-264-1	68039-49-6	1-<3		No data available
Lauryl aldehyde	203-983-6	112-54-9	1-<3	Skin Sens. Cat. 1B (H317) Skin Irr. Cat. 2 (H315) Eye Irr. Cat. 2 (H319)	No data available
Allyl (3-methylbutoxy)acetate	266-803-5	67634-00-8	1-<3	ATO 4-SCI 2;H302-H315	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 POISON CENTER or doctor/ physician if you feel unwell.

**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<sub>2</sub>). 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.

### 7.1. 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 <sup>3</sup> STEL: 50 ppm STEL: 280 mg/m <sup>3</sup>	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	TWA: 5 ppm TWA: 28 mg/m <sup>3</sup> Ceiling / Peak: 20 ppm Ceiling / Peak: 112 mg/m <sup>3</sup>  Skin Repr * Sen*		
Chemical Name	Ireland	Italy	Lithuania	Luxembourg	Malta
Citral 5392-40-5		TWA: 5 ppm TWA: 31 mg/m <sup>3</sup> Skin Sen* Carc*			
Chemical Name	The Netherlands	Norway	Poland	Portugal	Spain
Citral 5392-40-5			TWA: 27 mg/m <sup>3</sup> STEL: 54 mg/m <sup>3</sup>	Sen*	TWA: 5 ppm Skin
D-Limonene 5989-27-5		TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> Sen*			
Chemical Name	Switzerland		Sweden	The United Kingdom	
D-Limonene 5989-27-5	STEL: 14 ppm STEL: 80 mg/m <sup>3</sup> TWA: 7 ppm TWA: 40 mg/m <sup>3</sup> 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** 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** Characteristic

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
<b>pH</b>	No data available	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>	54 °C / 129.2 °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>	No data available	None known
<b>Vapor Pressure</b>	No data available.	None known
<b>Vapor Density</b>	No data available.	None known
<b>Relative Density</b>	No data available	0.8720 - 0.8760
<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

**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

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information.
<b>Inhalation</b>	There is no data available for this product.
<b>Eye Contact</b>	Causes serious eye irritation.
<b>Skin Contact</b>	Causes skin irritation. May cause sensitization by skin contact.
<b>Ingestion</b>	There is no data available for this product.

**Acute Toxicity** 22.059% of the mixture consists of ingredient(s) of unknown toxicity.

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

<b>LD50 Oral</b>	10,386.00 mg/kg
<b>LD50 Dermal</b>	6,156.00 mg/kg
<b>Gas</b>	99,999.00 mg/L
<b>Dust/Mist</b>	99,999.00 mg/L
<b>Vapor</b>	99,999.00 mg/L

#### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
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 )	
D-Limonene	5000 mg/kg ( Rat )	>5000 mg/kg ( Rabbit )	-
n-Hexyl acetate	= 36229 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	
6-Octenal, 3,7-dimethyl-	= 2420 mg/kg ( Rat )	> 2500 mg/kg ( Rabbit )	
Lauryl aldehyde	= 23 g/kg ( Rat )		

#### Sensitization

May cause an allergic skin reaction.

#### Mutagenic Effects

No information available.

#### Carcinogenic Effects

Contains no ingredient 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)
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)
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)		

#### Persistence and degradability

No information available.

#### Bioaccumulative potential

No information available.

Chemical Name	Log Pow
Citral	2.76

#### 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  
**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**  
**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

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

H317 - May cause an allergic skin reaction

H226 - Flammable liquid and vapor

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

#### Key literature references and sources for data

[www.ChemADVISOR.com/](http://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.