

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION

**Product Name:** Orange Power Orange Oil Air Freshener 125mL  
**Other Names:** Orange Power Orange Air Freshener 125mL  
**Intended Use:** Air Freshener – Retail Pack  
Aware Environmental Products P/L  
4 Healey Road  
**Organisation:** Dandenong VIC 3175  
03 9706 6214  
P: 1800 061 801

### 2. HAZARDS IDENTIFICATION

**CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF  
NOHSC**

**DANGEROUS GOOD – ACCORDING TO THE AUSTRALIAN  
DANGEROUS GOODS CODE**

**Risk phrases:** R11 – Highly flammable  
R20/22 – Harmful by inhalation and if swallowed  
R36/38- Irritating to eyes and skin  
R43 – May cause sensitization by skin contact.  
R66 – Repeated exposure may cause skin dryness and cracking.

#### Safety Phrases:

**S2** Keep out of reach of children  
**S7/9** Keep container closed in a well ventilated place  
**S16** Keep away from sources of ignition – no smoking  
**S24/25** Avoid contact with skin and eyes  
**S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advise  
**S61** Avoid release into the environment. Refer to special Instructions/safety data sheet.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

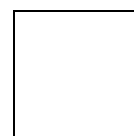
INGREDIENT IDENTITY	CAS NO.	DG CLASS	%
ETHANOL (DENATURED)	64-17-5	3	>30%
CITRUS TERPENE (COLD PRESSED ORANGE OIL)	68647-72-3	3	>30%

### 4. FIRST AID MEASURES

<b>Eyes:</b>	Immediately hold eye open and flush with water continuously for at least 15 minutes or until contaminants are washed away. If irritation persists seek medical attention.
<b>Skin:</b>	Remove all contaminated clothing and launder before re-use. Wash affected area with plenty of soap and water. If irritation occurs seek medical attention.
<b>Inhaled</b>	If inhaled remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.
<b>Swallowed:</b>	Do not induce vomiting – immediately give plenty of water to drink, contact a doctor or Poisons information centre immediately
<b>First Aid Facilities</b>	Eye wash and normal wash room facilities
<b>Advice to Doctor:</b>	Treat symptomatically.
<b>Other information</b>	For advice in an emergency, contact a Poisons information Centre (Phone Australia 131126) or a doctor

### 5. FIRE FIGHTING MEASURES

<b>Specific Hazards:</b>	Highly flammable liquid and vapour. Vapour/air mix may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard. May form flammable/explosive mixtures vapour/air mixture.
<b>Hazards from combustion products</b>	Incompatible with oxidizing agents, acid clays, mineral acids, alkylbenzene sulphonic acid, combustible materials and sources of ignition. Product burning generates carbon monoxide and or carbon dioxide.
<b>Extinguishing Media:</b>	In case of fire, appropriate extinguishing media include carbon dioxide, dry chemical or foam, sand and earth. Do NOT use water in a jet.
<b>Special Fire Fighting</b>	Wear self contained breathing apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent



**Procedures:** exposure to vapours or fumes. Water spray may be used to cool down heat exposed containers.

**Unusual Fire and/or Explosion Hazards:** If safe to do so remove containers from the path of fire. Closed containers may build up pressure at elevated temperatures, cool with water spray.

**6. ACCIDENTAL RELEASE MEASURES**

**Emergency Procedures:** Personnel should wear appropriate protective clothing, with breathing apparatus.

**Large Spills:** Slippery when spilt. Cordon off the spillage area. Isolate the source of the leak. Extinguish or remove all sources of ignition. Do NOT let the product reach waterways. Contain the spill using suitable non-flammable material such as sand, then place into suitable containers with clean non-sparking tools for disposal. Confer with local disposal regulations. Rinse area clean with water and detergent and hold the contaminated water for treatment. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations.  
 Slippery when spilt. Cordon off spillage. Isolate the source of the leak.

**Small spills:** Wipe area dry with clean paper towel and dispose of thoughtfully. Clean remaining surface with water and detergent using paper towel and dispose of paper towel.

**7. HANDLING AND STORAGE**

**Safe Handling:** Avoid skin contact, eye contact and breathing in spray mists or vapours. Use away from sparks, flames and other ignitions sources. Keep containers tightly closed. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking and using the toilet facilities.

**Conditions for safe storage** Inspect regularly for leakages. Store away from incompatible materials - oxidizing agents, acid clays, mineral acids, alkylbenzene sulphonic acid, combustible materials and sources of ignition. Protect from light, moisture and static discharges.  
 Inspect regularly for leakages, keep containers tightly closed. Store in plastic containers in a clean, dry, cool, well ventilated place away from food stuffs and clothing.  
 Store away from incompatible materials - oxidizing agents, acid clays, mineral acids, alkylbenzene sulphonic acid, combustible materials and sources of ignition. Protect from light, moisture and static discharges.

For Industrial applications: Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 – The storage and handling of flammable and combustible liquids. Reference would also be made to all applicable local and national regulations.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### National Exposure Standards:

Exposure standards have been set on the following ingredients

Ingredient	CAS NO,	TWA		STEL		Carcinogen category	notices
		Mg/m3	ppm	Mg/m3	ppm		
Ethanol	64-17-5	1880	1000	-	-	-	-
Oil mist		5	-	-	-	-	-

TWA – time weighted average: The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

### Biological limit values:

Not established.

### Engineered Controls:

Provide sufficient ventilation to keep airborne concentration levels below the exposure limits.  
 For industrial applications: Where vapours or mists are generated, particularly in enclosed area, and natural ventilation is inadequate, a flame proof exhaust ventilation system is required. Refer to AS 1940 – The storage and handling of flammable and combustible liquids and AS/NZS 2430.3.1:1997 Classification of hazardous areas – examples of area classification – General, for further information concerning ventilation requirements.

### Respiratory protection:

Not normally required.  
 For industrial applications: If engineering controls are not effective in controlling airborne exposure then an approved respirator with replaceable organic vapour filters should be used. Reference should be made to Australian and New Zealand Standards AS/NZS 1715 Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make necessary changes for individual circumstances.

### Eye Protection

Not normally required.  
 For Industrial Applications: Safety glasses with side shields or chemicals goggles should be worn. Final choice of appropriate eye/face protection should conform to AS/NZS 1337 – Eye Protectors for Industrial Applications.

**Hand Protection**

Not Normally required.  
 For industrial applications: Wear gloves of an impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS: Occupational protective gloves – Selection and use and maintenance.

**Body Protection**

Not Normally required.  
 For industrial applications: Suitable protective wear, eg cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form / Appearance:</b>	A clear yellow liquid
<b>Odour:</b>	Orange / citrus
<b>Vapour Pressure Ethanol:</b>	44mmHg (25°C)
<b>Vapour Density Ethanol:</b>	1.59 g/L
<b>Boiling Point Ethanol:</b>	78°C
<b>Melting Point Ethanol:</b>	-117°C
<b>Lower Explosion limit Ethanol:</b>	3.5%
<b>Upper Explosion limit Ethanol:</b>	19%
<b>Flammability</b>	<b>Highly flammable</b>
<b>Autoignition Temperature Ethanol:</b>	392°C
<b>Specific Gravity:</b>	0.820 to 0.830 g/mL at 25°C
<b>Flash Point: (Ethanol)</b>	13°C
<b>pH:</b>	n/a
<b>Solubility:</b>	In Ethanol
<b>Solubility in Water:</b>	Insoluble


## 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Considered stable under normal conditions of storage and handling.
<b>Conditions to Avoid:</b>	Avoid excessive heat, sparks, flame, direct sunlight, static discharges, moisture and high temperature.
<b>Incompatibility:</b>	Will react with strong oxidising agents. Incompatible with acid clays, mineral acids, alkylbenzene sulphonic acid, combustible materials, iodine pentafluoride and sources of ignition
<b>Hazardous decomposition products</b>	Product may generate acrid smoke and fumes as well as carbon monoxide and/or carbon dioxide.
<b>Hazardous Polymerisation:</b>	Will not occur.
<b>Hazardous reaction</b>	Highly exothermic reaction noted when blended with alkylbenzene sulphonic acid with possible boilover danger.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology information:</b>	No toxicity data are available for this specific product, however toxicity data for constituents are stated below: Ethanol: LD50 (Oral, Rat): 7,060 mg/kg LC50 (Inhalation, Rat): 20,000ppm/10h LC50 (Inhalation, Rat): >8,000ppm/4h
<b>Inhalation:</b>	Inhalation of product vapours or mists may cause irritation of the nose, throat and respiratory system.
<b>Eye:</b>	May be irritating to eyes. The symptoms include redness, itching and tearing.
<b>Ingestion:</b>	The ingestion of this product may irritate the gastric tract causing nausea and vomiting.
<b>Skin:</b>	Irritating to skin. Symptoms may include redness, itching and swelling. May cause sensitization by skin contact.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity Data:</b>	Toxicity to fish (acute): LC50/Golden ide/: >1000mg/l/48 h Toxicity to daphnia: EC50/Daphnia magna/: >1000mg/l/48 h
<b>Persistence and Degradability:</b>	Degree of elimination: 94% Evaluation: biodegradable.
<b>Mobility:</b>	No Data Available
<b>Environ.protection</b>	Do not discharge this material into waterways, drains and sewers.
<b>Volatile Organic Compound (VOC) content</b>	No Data Available



**13. DISPOSAL CONSIDERATIONS**

**Disposal:** The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

**14. TRANSPORT INFORMATION**

**Transport Information**

Australia:  
 This material is classified as a Class 3 (Flammable Liquids) Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
 Class 3 Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1, Explosive
- Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 Dangerous Goods are in bulk.
- Class 2.3, Toxic Gases
- Class 4.2 Spontaneously Combustible Substances
- Class 5.1, Oxidising Agents
- Class 5.2, Organic Peroxides
- Class 6, Toxic and Infectious Substances, if the class 3 dangerous goods are nitromethane.
- Class 7, Radioactive Substances

**UN Number:** 2319

**UN Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S. – (CONTAINS ETHANOL & TERPENE HYDROCARBONS )

**DG CLASS** 3

**Packing Group:** III

**HAZCHEM CODE** ●3YE

**EPG NUMBER** 3A1

**IERG NUMBER** 14

**15. REGULATORY INFORMATION**

**Poisons Schedule:** Not Scheduled

**AICS** To the Manufacturer’s best knowledge, all components of this product are listed on AICS.

**Hazard Category** Irritant, Highly Flammable

**16. OTHER INFORMATION**

**Contact Person:** Andrew Chaney (07) 3820 8888



We Research, Develop, Manufacture & Market Environmentally Responsible Products  
AWARE ENVIRONMENTAL PRODUCTS P/L  
ABN: 13 064 573 413  
4 Healey Road, Dandenong VIC 3175  
[www.awareenvironmental.com.au](http://www.awareenvironmental.com.au)

For advice in an emergency please contact the Poisons Information centre on :  
13 11 26

Revision Date: **April 2019**

**End of MSDS**

---

This MSDS is a summary prepared to the best of our knowledge, on the health and safety hazards associated with the product and serves as a general guide on how to safely handle the product in the workplace. Each individual must assess and control the risks associated with the product prior to use in the workplace.