



MATERIAL SAFETY DATA SHEET

According to 91/155/EC
Issuing Date: November 2007

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Details

Product: Air Fragrance Neutralizer (65% VOC)
Trade Name: N/A
Use: As Air Freshener for use in automated dispenser
Supplier: DMR Diversified Manufacturing Resources Sdn Bhd
Suite H, Menara Northam, 55 Jalan Sultan Ahmad Shah
11900 Penang, Malaysia
Tel: +60 4 226 3111 Fax: +60 4 226 3222

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterisation

Description: Mixture of organic solvents, perfume and propane/butane (propellant)

Designation	CAS No.	EC No.	Symbol	R-Phrases	Proportion %
Ethanol	64-17-5	200-578-6	F	11	20-30
3,7-Dimethyloctan-3-yl acetate	20780-48-7	244-033-0	Xi,N	38-51/53	1-2
Benzyl benzoate	120-51-4	204-402-9	Xn,N	22-51/53	1-2
Butylphenyl methylpropional	80-54-6	201-289-8	Xn	22-43	1-2
Hexyl cinnamal	101-86-0	202-983-3	Xi	43	1-2
2,6-Dimethyl-trans-2,6-octadien-8-ol	106-24-1	203-377-1	Xi	38-43	1-2
3,7-Dimethyl-1,6-octadien-3-ol	78-70-6	201-134-4	Xi	36-38	1-2

Additional information: For the wording of the listed risk phrases, refer to section 16

SECTION 3: HAZARDS IDENTIFICATION

Hazard Designation: F+ Extremely flammable

Information pertaining to particular Dangers for man and environment: R12 Extremely flammable
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Classification system: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

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SECTION 4: FIRST AID MEASURES

- After inhalation:** Supply fresh air, consult a doctor if symptoms develop.
- After skin contact:** Remove soaked clothing and launder before reuse. Wash skin with water and soap. If symptoms develop or persist, consult a doctor.
- After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:** Rinse mouth. DO NOT INDUCE VOMITTING. Consult a doctor.
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SECTION 5: FIRE FIGHTING MEASURES

- Suitable extinguishing agents:** CO₂, extinguishing powder or alcohol-resistant foam.
- For safety reasons unsuitable Extinguishing agents:** Non Aqueous dousing method to be applied.
- Special hazards caused by the Material, its products of Combustion or flue gases:** In case of fire, treat as chemical fire.
- Protective equipment:** Wear protective clothing equipment when fighting fires.
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SECTION 6: ACCIDENTAL RELEASE MEASURE

- Person related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- Measures for environmental Protection:** No special measures required.
- Measures for cleaning /collecting:** Ensure adequate ventilation. Absorb liquid components with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust)
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SECTION 7: HANDLING AND STORAGE

Handling

- Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- Information about protection Against explosions and fires:** Keep ignition sources away – do not smoke. Beware, container is pressurised. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire, even after use. Do not spray on flames or red-hot objects.

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Storage

Requirements to be met by Storerooms and containers: Store in cool location.
Observe official regulations on storing packagings with pressurised containers

Information about storage in One Common storage facility: Do not store together with strong acids and strong oxidising agents.

Further information about Storage conditions: Protect from heat and direct sunlight.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Components with critical values That the product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

That require monitoring at the Workplace:

Additional information:

OEL – Values:	EH40(2002)	OES	8hr TWA-	1000 ppm (1920 mg/m ³)
	Ethanol	OES	8hr TWA-	400 ppm (999 mg/m ³)
	Isopropanol		15min STEL	500ppm (1250 mg/m ³)
				Listed as an asphyxiant with no limit set

Personal protective equipment

General protective and hygienic Measure:

Wash hands during breaks and at the end of the work.

Breathing equipment: Not required, but ensure adequate ventilation when using the product.

Protection of hands: Not required when used as directed.

Eye protection: Not required when used as directed.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form: Aerosol

Colour: According to product specification

Smell: Perfume

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	<u>Value/Range</u>	<u>Unit</u>	<u>Method</u>
Change in condition			
Melting point/Melting range:	Not applicable,	as aerosol	
Boiling point/Boiling range:	Not applicable,	as aerosol	
Flash point:	Not applicable,	as aerosol	
Self-flammability:	Product is not self-igniting		
Danger of explosion:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.		
Critical values for explosion:			
Lower:	1.2	Vol %	
Upper:	23.5	Vol %	
Vapour pressure:	at 20°C 5.0-5.5	bar	
Density:	at 20°C 0.623 ± 0.006	g/cm ³	
Solubility in/Miscibility with water:	Partly miscible		

SECTION 10 : STABILITY AND REACTIVITY

Thermal decomposition/ Conditions to be avoided:	No decomposition if used according to instructions.
Dangerous reactions:	No dangerous reactions known.
Materials to be avoided:	Oxidising agents and strong acids.
Dangerous products of decomposition:	In case of fire CO and CO ₂ may be possible.

SECTION 11 : TOXICOLOGICAL INFORMATION

Acute toxicity:	
Primary irritant effect:	
On the skin:	Irritation may be possible.
On the eye:	Irritation may be possible.

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SECTION 12 : ECOLOGICAL INFORMATION

General notes: Water hazard class 1 (self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13 : DISPOSAL CONSIDERATIONS

Product:
Recommendation: Disposal must be made according to local regulations via a licensed waste contractor.
Uncleaned packagings;
Recommendation: Disposal must be made according to local regulations via a licensed waste contractor.

SECTION 14 : TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID Class: 2
UN Number: 1950
Correct technical name Aerosols (Flammable)
Label: Diamond shaped, framed
Remarks: UN 1950 AEROSOLS should be placed inside the diamond shaped label. Goods are classed as "Limited Quantities" and are therefore exempt from ADR regulations. Check local legislation for domestic transport.

Maritime transport IMDG/GGV Sea

IMDG/GGV Sea class: 2
UN Number: 1950
EMS Number: F-D, S-U
Marine Pollutant: No
Correct technical name: Aerosols
Remarks "Limited Quantity"
AEROSOLS is required according to IMDG regulations

Air transport ICAO-TI and IATA-DGR

ICAO/IATA class: 2.1
UN/ID Number: 1950
Correct technical name: Aerosol, flammable
Remarks: "Limited Quantity"

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SECTION 15 : REGULATORY INFORMATION

Designation according to EC

Guidelines:

The product has been labelled in accordance with EC directives/relevant national laws.
For professional use only

Code letter and hazard

Designation of product:

F+ Extremely flammable.

Risk phrases:

12 Extremely flammable.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

2 Keep out reach of children.

16 Keep away from sources or ignition – No smoking.

23 Do not breathe spray.

51 Use only in well-ventilated areas.

Special label phrase:

Contains Hexyl cinnamal, Butylphenyl methylpropional and 3,7-Dimethyl-1,6-octadien-3-ol. May cause an allergic reaction.

National regulations:

Special designation of certain preparations:

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Water hazard class:

Water hazard class 1 (self-assessment): slightly hazardous for water.

SECTION 16 : OTHER INFORMATION

R-phrases used in document:

R11 Highly flammable

R12 Extremely flammable

R22 Harmful if swallowed

R36 Irritating to eyes

R38 Irritating to skin

R43 May cause sensitisation by skin contact

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R67 Vapours may cause drowsiness and dizziness

General information:

Before using the product, ensure that you read and understand its label. The information contained in this safety data sheets is, to the best of our knowledge and belief, accurate and reliable at the time of publication. The information related only to the specific material if it is used in combination with any other materials or for any other use other than that specified herein. We are not liable for the use of this product for any other purpose than that described in this safety data sheet. It is the user's responsibility to satisfy himself/herself as to the suitability in completeness of such information for his/her own particular use. This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific products features and shall not establish a legally valid contractual relationship.

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