

Draft - Safety Data Sheet

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REVISION (see box 16)

Issue : 01 10 : 04 : 2008

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
Product Name	SOLAR AIRFRESH – Pine Fragrance 243137
Description	A perfumed aerosol for use by Initial Service staff only. A pine fragrance for use in the Solar Airfresh dispenser.
Company	Rentokil Initial Supplies, Liverpool, L33 7SR. Product advice line: 0151 548 5050 Emergency line: 0800 731 6 731 e-mail: eurotech.techinfo@rentokil-initial.com

2 HAZARD IDENTIFICATION
Classification (Supply – Use) : In compliance with EC Directive 1999/45.
F+ Extremely Flammable R12 Extremely flammable
Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):
<p>This product is extremely flammable, and packaged in a pressurised container, which may explode if exposed to direct sunlight or temperatures above 50°C.</p> <p>Intentional misuse by deliberately concentrating or inhaling the contents of an aerosol product can be harmful or fatal. Inhalation of excessive vapours may lead to drowsiness, loss of consciousness and subsequent asphyxiation. Direct contact with the aerosol may cause cold burns to the eyes and skin.</p> <p>No other significant adverse effects expected under normal conditions of handling and use.</p>

3 COMPOSITION / INFORMATION ON INGREDIENTS (SEE ALSO BOX 16)		
% w/w	Common*/Chemical Name, Elincs/Einecs & CAS No. of Ingredients	EC 1999/45 Classification
>50.0 ≤100.0	Liquefied petroleum gas EINECS : 270-704-2 CAS : 68476-85-7	F+ : R12
≤1.0	4-Tertiary-Butylcyclohexyl acetate EINECS : 250-954-9 CAS : 32210-23-4	N : R 51,53
> 1.0 ≤2.5	Amylcyclohexyl acetate (Mixed isomers) EINECS :267-500-0 CAS : 67874-72-0	N : R 51,53
≤1.0	Lauraldehyde EINECS :203-983-6 CAS : 112-54-9	Xi : R 38 N : R51,53
>2.5 ≤10.0	Terpineol EINECS :232-268-1 CAS : 8000-41-7	Xi : R 38
≤1.0	Undecylenal EINECS :203-973-1 CAS : 112-45-8	N : R 51,53
≤1.0	Camphor EINECS :200-945-0 CAS : 76-22-2	Xn : R 20/22 : R68

4 FIRST-AID MEASURES (SEE ALSO “ADVERSE EFFECTS” IN BOX 2)	
Inhalation	Remove patient to fresh air, keep warm and at rest. Apply supportive measures if necessary and seek medical attention.
Eye Contact	Rinse affected eye with clean running water, or eyewash solution, for at least 15 minutes holding eyelids well apart. Rinse entire surface and do not allow run-off to contaminate unaffected eye. Seek medical attention.
Skin Contact	Remove and wash contaminated clothing immediately. Wash affected area thoroughly with soap and water. If the patient feels unwell seek medical advice.
Ingestion (Swallowing)	Do NOT induce vomiting. If unconscious place in the recovery position and apply supportive measures if necessary. If conscious give patient up to ½ litre or 1 pint of water to drink. Seek medical attention.
Emergency Equipment Suggested	Appropriate first-aid equipment should be provided. For the UK this should be in accordance with the Health & Safety (First-Aid) Regulations 1981. See also the Approved Code of Practice “First-aid at Work”.
Note To Doctor	Further information on all Rentokil Initial formulations is lodged with the National Poisons Information Service in the UK.

5 FIRE FIGHTING MEASURES	
Fire Extinguisher Type	Use carbon dioxide, foam, or dry powder extinguishers. Do NOT use a water jet.
Special Fire-Fighting Procedures	Wear suitable personal protective equipment.
Special Exposure Hazards	Carbon monoxide and unidentified organic compounds may be formed during combustion.

6 ACCIDENTAL RELEASE MEASURES	
Personal Precautions (See also box 8)	Wear suitable personal protective equipment.
Environmental Precautions	Keep away from drains, surface and ground water, and soil.
Clean-up Procedure (See also box 13)	If the aerosol container is damaged or pierced, if possible, allow the propellant to vent-off. Transfer to a suitable container for subsequent disposal.

7 HANDLING AND STORAGE (SEE ALSO BOX 8)	
Handling	Do not pierce or burn.
Storage	Store in original container in a cool, dry, ventilated place out of the reach of children and away from food, drink and animal feeding stuffs. Keep away from sources of ignition – No smoking.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION	
Exposure Standard - Directive EC/98/24 (1st IOELV Directive)	Workplace Exposure Limit (WEL) for liquefied petroleum gas is 1750 mg/m ³ long-term exposure (8 hour Time Weighted Average) and 2180 mg/m ³ short-term exposure (15 minute reference period). Workplace Exposure Limit (WEL) for camphor is 13 mg/m ³ long-term exposure (8 hour Time Weighted Average) and 19 mg/m ³ short-term exposure (15 minute reference period). Camphor is referred to as Barnan-2-one in Directive EC/98/24 (1 st IOELV Directive).
Engineering Controls	Where exposure may occur, engineering controls, rather than the provision of Personal Protective Equipment (PPE) should be employed. On completion of a risk assessment, the following PPE may be required:
Eye Protection	None necessary when used in the Solar Airfresh dispenser, however wear goggles when installing product.
Hand Protection	None necessary when used in the Solar Airfresh dispenser, however wear rubber/PVC gloves when installing product.
Skin Protection	None necessary when used in the Solar Airfresh dispenser.
Breathing Protection	None necessary when used in the Solar Airfresh dispenser.
Environmental Exposure Controls	Use only in accordance with instructions given.

9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and Odour	A perfumed aerosol with a pine fragrance.		
pH	Not applicable.	Solubility in Water	Not determined.
S.G.	0.5 at 18°C	Solubility in Fat	Not determined.
Flash Point	-104°C (liquefied petroleum gas)	Explosive Properties	Pressurised container – may explode if exposed to direct sunlight or temperatures exceeding 50°C.
Flammability	Extremely flammable.	Combustibility	Combustible.
Boiling Point/Range	Starts at ca. -2°C (liquefied petroleum gas)	Oxidising Properties	Not determined.
Vapour Density	Not determined.	Evaporation Rate	Not determined.
Vapour Pressure	Not determined.	Partition Coefficient	Not applicable.
Viscosity	Not determined.	Other Data	Freezing point = -138°C (liquefied petroleum gas)

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10 STABILITY AND REACTIVITY	
Conditions to avoid	Avoid extremes of temperature, e.g. below 0°C and above 50°C. Protect from sunlight.
Materials to avoid	Avoid contact with strong acids, alkali or oxidising agents. Do not spray on a naked flame, electrical equipment or any incandescent material.
Hazardous Breakdown Products	Carbon monoxide and unidentified organic compounds may be formed during combustion.

11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)		
Acute Toxicity	Oral Inhalation	Ingestion may lead to drowsiness and loss of consciousness. Inhalation of excessive vapours may lead to drowsiness, loss of consciousness and subsequent asphyxiation.
Corrosivity/Irritation	Dermal	Direct contact with skin may cause cold burns.
	Skin	Liquid or cold vapour may cause frostbite. Direct contact with skin may cause cold burns.
	Eyes	Liquid or cold vapour may cause frostbite or corneal damage.
Sensitisation	Respiratory tract	Not determined.
	Skin	Contains no known skin sensitisers.
Repeat-Dose Toxicity	Respiratory	Contains no known respiratory sensitisers.
		Prolonged exposure may affect the central nervous system.
Mutagenicity		Product does not contain any components known to have a mutagenic effect.
Carcinogenicity		Product does not contain any components known to have a carcinogenic effect.
Reproductive Toxicity	Fertility	Product does not contain any components known to have effects on fertility.
	Development	Product does not contain any components known to be toxic to the reproductive system.
Other Information		None known.

12 ECOLOGICAL INFORMATION	
General Information	The Amylcyclohexyl acetate (Mixed isomers), 4-Tertiary-Butylcyclohexyl acetate and Undecylenal in this product is classified as toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. However, when used in accordance with instructions given, controlled release of this product is not expected to cause environmental contamination.
Ecotoxicity Data	Not determined.
Mobility	For liquefied petroleum gas: volatile/gaseous and will partition to the air phase. If released to air, it will disperse rapidly.
Persistence and Degradability	For liquefied petroleum gas: photochemical degradation in air will proceed at a moderate rate.
Bioaccumulative Potential	Unlikely to accumulate in the environment.
Other Adverse Effects	None known.

13 DISPOSAL CONSIDERATIONS	
Disposal of Waste / Containers	Under normal circumstances, waste / empty containers will be disposed of by Rentokil Initial.
Classification (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	<u>Hazard Code:</u> H3A(i) – Highly flammable.
Note for Disposal	<u>Components making the waste hazardous Concentrations (%):</u> Liquefied petroleum gas >50.0 ≤100.0
	For further advice about disposal, in the UK, contact the local office of the Environment Agency (England and Wales) or Scottish Environment Protection Agency. Local rate from anywhere in the UK: +44 (0) 870 850 6506.

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)

UN No.	UN1950	Tremcard Reference No.	CEFIC TEC (R)-20G5F	RIS Code
Transport Category	2	UK Hazchem EAC	Not applicable, aerosols are not allowed to be carried in tanks or in bulk.	CS67106
ADR 2007 (International Road) Proper Shipping Name	CLASS 2	ADR HIN	Not applicable, aerosols are not allowed to be carried in tanks or in bulk.	Labels  (6 x 150 mL)
Limited Quantity Exemptions	AEROSOLS Individual aerosols should not exceed 1000 ml and be carried in combination packages not exceeding 30 kg. If carried in shrink-wrapped trays, the total gross mass of the package must not exceed 20 kg.			
Special Requirements	Packages must be marked "UN1950 AEROSOLS" Packing Group Not required.			
IMDG 2006 (Sea) Proper Shipping Name	Class 2	IMDG EMS	F-D, S-U	
Limited Quantity Exemptions	AEROSOLS Individual aerosols should not exceed 1000 ml and be carried in combination packages not exceeding 30 kg. If carried in shrink-wrapped trays, the total gross mass of the package must not exceed 20 kg.			
Special Requirements	Packages must be marked "UN1950 AEROSOLS" Packing Group Not required.			
Note for Transport	Local, State or National requirements may apply to the carriage of this product.			

15 REGULATORY INFORMATION (HEALTH AND SAFETY INFORMATION (SEE ALSO BOX 2))

Safety Phrases	S16 : Keep away from sources of ignition - No smoking. S35 : This material and its container must be disposed of in a safe way. S46 : If swallowed, seek medical advice immediately and show this container or label. S51 : Use only in well-ventilated areas.
Additional Label Phrases	WARNING: Keep out of the reach of children. Use only as directed. WARNING: 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.
Legislation	Labelling is in accordance with UK regulations implementing the EC Directive 1999/45. Additional labelling requirements may be necessary in accordance with other National legislation. Outside the UK, the registration of this product may be necessary before use and any additional local requirements must be observed at all times. The information given on this Safety Data Sheet (SDS) does not constitute an assessment in accordance with Control of Substances Hazardous to Health (COSHH) Regulations 2002, in the UK. Other National measures or guidance should be followed where appropriate.

16 Other Information and indication of revisions

Packaging Information	An aerosol can containing 150 mL. Supplied in an outer cardboard box (6 x 150mL).
Revisions	Not applicable.
Risk phrase text (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	R12 : Extremely flammable. R20/22 : Harmful by inhalation and if swallowed. R38 : Irritating to skin. R52/53 : Harmful 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 R68 : Possible risks of irreversible effects.

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Before using any product, ensure that you read and understand its label.

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