

# Safety Data Sheet

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REVISION (see box 16)

Issue : 06 31 : 07 : 2007

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
<b>Product Name</b>	<b>SOLAR AIRFRESH – CITRUS SPLASH</b>
<b>Description</b>	A perfumed aerosol for use by Initial Service staff only. A fresh, zesty citrus fragrance for use in the Solar Airfresh dispenser.
<b>Company</b>	Rentokil Initial Supplies, Liverpool, L33 7SR. Product advice line: 0151 548 5050 Emergency line: 01342 833022. e-mail: <a href="mailto:techinfo@rentokil-initial.com">techinfo@rentokil-initial.com</a>

2 HAZARD IDENTIFICATION	
<b>Classification (Supply – Use) : In compliance with EC Directive 1999/45.</b>	
<b>F+ Extremely Flammable</b>	R12 Extremely flammable
<b>Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):</b>	
<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	2-Methyl-3-(4-isopropylphenyl) propanal EINECS : 203-161-7 CAS : 103-95-7	X <sub>i</sub> : R38 N : R51,53
≤1.0	3,7-Dimethyloctan-1-ol EINECS : 203-374-5 CAS : 106-21-8	X <sub>i</sub> : R38 N : R51,53
≤1.0	Allyl caproate* EINECS : 204-642-4 CAS : 123-68-2	X <sub>n</sub> : R21/22 N : R51,53

**SOLAR AIRFRESH – CITRUS SPLASH**

<b>4 FIRST-AID MEASURES (SEE ALSO “ADVERSE EFFECTS” IN BOX 2)</b>	
<b>Inhalation</b>	Remove patient to fresh air, keep warm and at rest. Apply supportive measures if necessary and seek medical attention.
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Remove and wash contaminated clothing immediately. Wash affected area thoroughly with soap and water. If the patient feels unwell seek medical advice.
<b>Ingestion (Swallowing)</b>	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.
<b>Emergency Equipment Suggested</b>	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”.
<b>Note To Doctor</b>	Further information on all Rentokil Initial formulations is lodged with the National Poisons Information Service in the UK.

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

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

<b>7 HANDLING AND STORAGE (SEE ALSO BOX 8)</b>	
<b>Handling</b>	Do not pierce or burn.
<b>Storage</b>	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.

<b>8 EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
<b>Exposure Standard - Directive EC/98/24 (1<sup>st</sup> IOELV Directive)</b>	Workplace Exposure Limit (WEL) for liquefied petroleum gas is 1750 mg/m <sup>3</sup> long-term exposure (8 hour Time Weighted Average) and 2180 mg/m <sup>3</sup> short-term exposure (15 minute reference period).
<b>Engineering Controls</b>	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:
<b>Eye Protection</b>	None necessary when used in the Solar Airfresh dispenser, however wear goggles when installing product.
<b>Hand Protection</b>	None necessary when used in the Solar Airfresh dispenser, however wear rubber/PVC gloves when installing product.
<b>Skin Protection</b>	None necessary when used in the Solar Airfresh dispenser.
<b>Breathing Protection</b>	None necessary when used in the Solar Airfresh dispenser.
<b>Environmental Exposure Controls</b>	Use only in accordance with instructions given.

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

## SOLAR AIRFRESH – CITRUS SPLASH

## 10 STABILITY AND REACTIVITY

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

## 11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)


<b>Acute Toxicity</b>	Oral	Ingestion may lead to drowsiness and loss of consciousness.
	Inhalation	Inhalation of excessive vapours may lead to drowsiness, loss of consciousness and subsequent asphyxiation.
	Dermal	Direct contact with skin may cause cold burns.
<b>Corrosivity/Irritation</b>	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.
	Respiratory tract	Not determined.
<b>Sensitisation</b>	Skin	Contains no known skin sensitisers.
	Respiratory	Contains no known respiratory sensitisers.
<b>Repeat-Dose Toxicity</b>		Prolonged exposure may affect the central nervous system.
<b>Mutagenicity</b>		Product does not contain any components known to have a mutagenic effect.
<b>Carcinogenicity</b>		Product does not contain any components known to have a carcinogenic effect.
<b>Reproductive Toxicity</b>	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.
<b>Other Information</b>		None known.

## 12 ECOLOGICAL INFORMATION

<b>General Information</b>	The 2-methyl-3-(4-isopropylphenyl) propanal, 3,7-dimethyloctan-1-ol and allyl caproate in this product are 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.
<b>Ecotoxicity Data</b>	Not determined.
<b>Mobility</b>	For liquefied petroleum gas: volatile/gaseous and will partition to the air phase. If released to air, it will disperse rapidly.
<b>Persistence and Degradability</b>	For liquefied petroleum gas: photochemical degradation in air will proceed at a moderate rate.
<b>Bioaccumulative Potential</b>	Unlikely to accumulate in the environment.
<b>Other Adverse Effects</b>	None known.

## 13 DISPOSAL CONSIDERATIONS

<b>Disposal of Waste / Containers</b>	Under normal circumstances, waste / empty containers will be disposed of by Rentokil Initial.
<b>Classification</b> (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	<u>Hazard Code</u> : H3A(i) – Highly flammable.
<b>Note for Disposal</b>	<u>Components making the waste hazardous</u> <u>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.

<b>14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)</b>				
<b>UN No.</b>	UN1950	<b>Tremcard Reference No.</b>	CEFIC TEC (R)-20G5F	<b>RIS Code</b>
<b>Transport Category</b>	2	<b>UK Hazchem EAC</b>	Not applicable, aerosols are not allowed to be carried in tanks or in bulk.	CS67106
<b>ADR 2007 (International Road) Proper Shipping Name</b>	<b>CLASS 2</b>	<b>ADR HIN</b>	Not applicable, aerosols are not allowed to be carried in tanks or in bulk.	<b>Labels</b>    (6 x 150 mL)
<b>Limited Quantity Exemptions</b>	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. Not required.			
<b>Special Requirements</b>	Packages must be marked "UN1950 AEROSOLS" <b>Packing Group</b> Not required.			
<b>IMDG 2006 (Sea) Proper Shipping Name</b>	<b>Class 2</b>	<b>IMDG EMS</b>	F-D, S-U	
<b>Limited Quantity Exemptions</b>	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. Not required.			
<b>Special Requirements</b>	Packages must be marked "UN1950 AEROSOLS" <b>Packing Group</b> Not required.			
<b>Note for Transport</b>	Local, State or National requirements may apply to the carriage of this product.			

<b>15 REGULATORY INFORMATION (HEALTH AND SAFETY INFORMATION (SEE ALSO BOX 2))</b>	
<b>Safety Phrases</b>	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.
<b>Additional Label Phrases</b>	<b>WARNING:</b> Keep out of the reach of children. Use only as directed. <b>WARNING:</b> 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.
<b>Legislation</b>	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) <b>does not</b> 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.

<b>16 Other Information and indication of revisions</b>	
<b>Packaging Information</b>	An aerosol can containing 150 mL. Supplied in an outer cardboard box (6 x 150mL).
<b>Revisions</b>	Changes have been made to the content of boxes 1 and 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 05.
<b>Risk phrase text</b> (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	R12 : Extremely flammable. R38 : Irritating to skin. R21/22 : Harmful in contact with skin and if swallowed. R51,53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

## SOLAR AIRFRESH – CITRUS SPLASH

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Issue : 06

13 : 03 : 2007

Page 4 of 4

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

The information contained in this safety data sheet is, to the best of our knowledge and belief, accurate and reliable at the time of publication. The information relates only to the specific material designated in this safety data sheet and may not be valid for such material if it is used in combination with any other material(s) or any other use than that specified herein. Rentokil Initial UK Ltd is not liable for the use of this product for any other purpose than that described in this safety data sheet. This does not affect your statutory rights. It is the user's responsibility to satisfy him/herself as to the suitability in completeness of such information for his/her own particular use.

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