



MATERIAL SAFETY DATA SHEET

ACCORDING TO 91/155/EC (as amended 2001/58/EC)

1. Identification of the substance/preparation and company/undertaking.

Identification preparation

Kimberly-Clark® Professional Serenade Aircare Refill code 6137010 310ml Spray refill

Use of preparation

Air Freshener

Company/undertaking identification

Kimberly-Clark Europe Limited, Beech House, 35 London Road, Reigate, Surrey, RH2 9PZ
Tel: +44 1737 736000 Fax : +44 1737 736670 Contact : Skincare Technical Manager

2. Composition/information on ingredients

Chemical Characterisation:

Description: Mixture of alcohols, water and perfume.

Classified Components:

Chemical	CAS No.	EC No.	Symbol	R-Phrases	%
Propan-2-ol	67-63-0	200-661-7	Xi, F	11-36-67	10 – 15
Hexyl cinnamic aldehyde	101-86-0	202-983-3	Xi	43	< 1
Perfume oil	N/A as mixture		Xn, N	38-43-51/53-65	1 – 5

3. Hazards identification

Hazard Designation: F Highly flammable.

Information pertaining to particular dangers for man and environment:
R11 Highly flammable.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effect 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.

4. First-aid measures

Inhalation : Supply fresh air, consult doctor in case of symptoms.
Skin : Remove soaked clothing; Wash skin with soap and water.
Eyes : Rinse opened eye with clean water for several minutes. If symptoms persist, consult a doctor.
Ingestion : Rinse mouth; Do not induce vomiting; Consult a doctor.

5. Fire-fighting measures

Suitable extinguishing media : CO₂, extinguishing powder or alcohol-resistant foam.
Unsuitable extinguishing media : Water jet
Special exposure hazards : Incomplete combustion may generate carbon monoxide
Fire fighting protective equipment : Self contained breathing apparatus must be worn

6. Accidental release measures

Failure to contain a release must be notified to both local authority and Kimberly-Clark Europe Ltd

Personal precautions : See section 8

Environmental precautions : Do not wash into the drains

Disposal precautions : Ensure adequate ventilation.
: Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust).
: Place in plastic barrels for disposal.
: Do not mix with other waste materials.

7. Handling and storage

- Handling** : Use in well ventilated areas.
 : Keep away from ignition sources – do not smoke
 : Avoid contact with eyes
- Storage** : Store between 5 and 30 degrees.
 : Protect from frost
 : Do not store close to strong oxidising agents or strong acids.
 : Do not store near naked flame and keep away from sources of ignition.
- Suitable packaging** : Plastic tightly closed containers
- Specific Use(s)** : Room Air Freshener refill for use in public washrooms/ areas.

8. Exposure controls/personal protection

- Additional information about design of technical systems:** No further data; see section 7
- Components with critical values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored in the workplace.

Additional information:

The lists that were valid during the compilation were used as a basis

OEL - Values:	EH40(2002)				
	Ethanol	OES	8hr TWA -	1000 ppm (1920 mg/m ³)	
	Isopropanol	OES	8hr TWA -	400 ppm (999 mg/m ³)	
			15min STEL	500 ppm (1250 mg/m ³)	

Personal protective equipment:

During normal use of this product, no personal protective equipment is required. It is recommended that personnel installing the refills wash their hands during breaks and at the end of the day.

When containing/cleaning up a spillage the working procedures should minimise worker exposure to this product. Where this is not possible the following personal protective equipment should be provided:

Protective overalls and shoes/boots recommended.

Impervious gloves recommended

Chemical safety goggles recommended

All personal protective equipment must comply with the appropriate EEC (CE) standards and should be maintained and stored to ensure continued suitability for use. Workers should be trained in the effective use and maintenance of the personal protective equipment provided.

9. Physical and chemical properties
General Information

Appearance : Pale yellow clear liquid **Odour :** Characteristic

Important health, safety and environmental information

	<u>Value/Range</u>	<u>Unit</u>	<u>Method</u>
Change in condition:			
Melting point/Melting range:	Not determined		
Boiling point/Boiling range:	Not determined		
Flash point:	12 ± 1.0	°C	Closed cup
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:	1.8	Vol %	
Upper:	19.0	Vol %	
Density: at 20°C	0.873 ± 0.006	g/cm ³	
Solubility in/Miscibility with Water:	Partly miscible.		

10. Stability and reactivity

Product stable under normal conditions

Conditions to avoid : See section 7
Materials to avoid : May react with strong oxidants
Hazardous decomposition products : Incomplete combustion may generate carbon monoxide.

11. Toxicological information

Acute toxicity: The preparation has not been assessed at all for this, so its hazardous properties in this regard are not known.

Primary irritant effect:

On the skin: Minimal (or low) irritation potential when tested on human skin.
On the eye: Irritation may be possible.
Sensitisation: Not tested / Not known.
Repeat dose toxicity: Not tested / Not known.
Mutagenicity: Not tested / Not known.
Carcinogenicity: Not tested / Not known.
Reproductive toxicity: Not tested / Not known.

12. Ecological information

General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.

This product is unlikely to accumulate in the environment and environmental problems under normal use are unexpected. The HDPE bottle and pump are not biodegradable.

13. Disposal considerations

Product : Do not wash into the drains. Place in plastic barrels for disposal.
: Do not mix with other waste materials.
Packaging : To be disposed of in a safe way.

Dispose of in accordance with State and local authority regulations.
Seek advice from local waste authority or seek guidance from Kimberly-Clark Europe Limited.

14. Transport information

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

UN-Number: 1987
Packing Group: II
Correct technical name: ALCOHOLS, NOS (CONTAINS ETHANOL AND ISOPROPANOL)
Label: Diamond shaped, framed
Remarks: UN 1987 (Alcohols,n.o.s.) should be placed inside the diamond shaped label. This only applies to "Limited quantities".
UN 1987 is required according to ADR-regulations;
"Dangerous goods in limited quantities of class 3" is required according to IMDG-regulations.

Maritime transport IMDG/GGVSea

IMDG/GGVSea Class: 3
Page: 3175
UN Number: 1987
Packaging Group: II
EMS Number: 3-06
MFAG: 305
Marine Pollutant: No
Correct technical name: ALCOHOLS, NOS (CONTAINS ETHANOL AND ISOPROPANOL)
Remarks "Limited Quantity"

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class: 3
UN/ID Number: 1987
Packaging Group: II
Correct Technical Name: ALCOHOLS, NOS (CONTAINS ETHANOL AND ISOPROPANOL)
Remarks: "Limited Quantity"

Note : The above air transport information is for classification purposes only, the packaging in which the refills is supplied is not UN approved and the refills cannot be shipped by air.

15. Regulatory information

This product has been assessed using the health and safety criteria laid down in the EEC Directives on the Control of Dangerous Substances and Preparations

Code letter and hazard designation of product: F Highly flammable.

Risk phrases: 11 Highly Flammable.

Safety phrases: 16 Keep away from sources of ignition - No smoking.
52/53 Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment

Other phrases : For professional use
Contains Hexyl cinnamic aldehyde. May produce an allergic reaction.

National regulations:
Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16. Other information

This safety data sheet takes into account the enactment of Council Directive 88/379/EEC and its amendments/adaptations.

This safety data sheet is accurate to the best of our knowledge and is based on information which we consider to be reliable. It is furnished without warranty.

Sources: Raw material Safety Data sheets
EH40/2002 Occupational Exposure limits (UK)

Revision History :

Edition No	Reason	Date
1	First issue. General data sheet covering all 5 refills 6135,6136,6137,6138,6139	7 April 2000
2	Updated in accordance with CHIP 3 regulations and the 2001/58/EC amendments to 91/155/ECC	31 January 2003