

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006

**KIMBERLY-CLARK PROFESSIONAL\***  
**MELODIE Fragrance Refill**

Version	Revision Date:	MSDS Number:	Date of last issue: 06.03.2017
1.4	28.03.2017	100000003492	Date of first issue: 16.11.2015

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name : KIMBERLY-CLARK PROFESSIONAL\* MELODIE Fragrance Refill

Product code : 6135

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the Sub-stance/Mixture : Aircare

**1.3 Details of the supplier of the safety data sheet**

Company : Kimberly-Clark Europe Limited  
40 London Road  
Reigate  
Surrey RH2 9QP  
United Kingdom

Telephone : +44 1737 736000

Telefax : +44 1737 736670

E-mail address Responsible/issuing person : sdscontact@kcc.com

**1.4 Emergency telephone number**

: +44 1865 407333  
This telephone number is available 24 hours per day, 7 days per week.

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Eye irritation, Category 2 H319: Causes serious eye irritation.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

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Hazard pictograms :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.

Precautionary statements :

**Prevention:**

P210 Keep away from heat. - No smoking.

**Response:**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Additional Labelling:**

EUH208 Contains 4-tert-butylcyclohexyl acetate. May produce an allergic reaction.

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

This product is a mixture. Health hazard information is based on its components.

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**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
propan-2-ol	67-63-0 200-661-7	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 15 - < 20
4-tert-butylcyclohexyl acetate	32210-23-4	Skin Sens. 1B; H317	>= 0.1 - < 1

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	250-954-9		
Linalool	78-70-6 201-134-4	Skin Irrit. 2; H315 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 0.1 - < 1

For explanation of abbreviations see section 16.

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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

- General advice : No hazards which require special first aid measures.
- If inhaled : Not required under normal use.
- In case of skin contact : Wash off with soap and plenty of water.  
If skin irritation persists, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
- If swallowed : Do NOT induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed**

- Symptoms : No information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

- Treatment : No information available.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : Do NOT use water jet.

**5.2 Special hazards arising from the substance or mixture**

- Specific hazards during fire-fighting : Highly flammable liquid and vapour.
- Hazardous combustion products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

**5.3 Advice for firefighters**

- Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

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for firefighters

Further information : Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Ensure adequate ventilation.  
Remove all sources of ignition.

**6.2 Environmental precautions**

Environmental precautions : Prevent product from entering drains.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).

**6.4 Reference to other sections**

For personal protection see section 8.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Advice on safe handling : No special handling advice required.

Advice on protection against fire and explosion : Keep product and empty container away from heat and sources of ignition.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.

Advice on common storage : No special restrictions on storage with other products.

Other data : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

Specific use(s) : Aircare

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**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
propan-2-ol	67-63-0	TWA	400 ppm 999 mg/m <sup>3</sup>	GB EH40
		STEL	500 ppm 1,250 mg/m <sup>3</sup>	GB EH40

**8.2 Exposure controls**

**Personal protective equipment**

Eye protection : not required under normal use

Hand protection  
Remarks : For prolonged or repeated contact use protective gloves.

Skin and body protection : not required under normal use

Respiratory protection : Not required under normal use.

Protective measures : No special protective equipment required.

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**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Appearance : liquid

Colour : clear

Odour : pleasant

pH : 5.75

Boiling point/boiling range : 100 °C

Flash point : 35 °C

Upper explosion limit : 12 %(V)

Lower explosion limit : 2 %(V)

Relative density : 0.98

Density : 0.98 g/cm<sup>3</sup> (23 °C)

Solubility(ies)

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Water solubility : soluble

**9.2 Other information**

No data available

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

Stable under recommended storage conditions.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : Stable under recommended storage conditions.  
No decomposition if used as directed.

Vapours may form explosive mixture with air.

**10.4 Conditions to avoid**

Conditions to avoid : Heat, flames and sparks.

**10.5 Incompatible materials**

Materials to avoid : Strong acids and oxidizing agents

**10.6 Hazardous decomposition products**

Stable under recommended storage conditions.

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**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

**Components:**

**propan-2-ol:**

Acute oral toxicity : LD50 Oral (Rat): 5,840 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): > 10000 ppm  
Exposure time: 6 h  
Method: OECD Test Guideline 403  
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rabbit): 12,800 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

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**4-tert-butylcyclohexyl acetate:**

Acute oral toxicity : LD50 Oral (Rat, male and female): 3,370 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 4,680 mg/kg

**Linalool:**

Acute oral toxicity : LD50 Oral (Mouse, male and female): 3,500 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute inhalation toxicity : LC50 (Mouse, male and female): 3.2 mg/l  
Method: No information available.  
GLP: no

Acute dermal toxicity : LD50 Dermal (Albino rabbit): 5,610 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

**Skin corrosion/irritation**

**Product:**

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

**Components:**

**propan-2-ol:**

Species: Rabbit  
Method: No information available.  
Result: No skin irritation  
GLP: no

**4-tert-butylcyclohexyl acetate:**

Species: human skin  
Result: No skin irritation

**Linalool:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Skin irritation  
GLP: yes

**Serious eye damage/eye irritation**

**Product:**

Assessment: Irritating to eyes.  
Remarks: Contact with eyes may cause irritation.

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**Components:**

**propan-2-ol:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Irritating to eyes.  
GLP: no

**4-tert-butylcyclohexyl acetate:**

Species: Rabbit  
Result: No eye irritation

**Linalool:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Eye irritation  
GLP: no

**Respiratory or skin sensitisation**

**Product:**

Remarks: No data available

**Components:**

**propan-2-ol:**

Test Type: Buehler Test  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Did not cause sensitisation on laboratory animals.  
GLP: yes

**4-tert-butylcyclohexyl acetate:**

Species: Mouse  
Result: The product is a skin sensitiser, sub-category 1B.

**Linalool:**

Species: Mouse  
Assessment: Does not cause skin sensitisation.  
Method: No information available.  
Result: Did not cause sensitisation on laboratory animals.  
GLP: no

**Germ cell mutagenicity**

**Product:**



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Germ cell mutagenicity- Assessment : Contains no ingredient listed as a mutagen

**Carcinogenicity**

**Product:**

Carcinogenicity - Assessment : Contains no ingredient listed as a carcinogen

**Reproductive toxicity**

**Product:**

Reproductive toxicity - Assessment : Contains no ingredient listed as toxic to reproduction

**STOT - single exposure**

**Product:**

Remarks: No data available

**STOT - repeated exposure**

**Product:**

Remarks: No data available

**Further information**

**Product:**

Remarks: Health injuries are not known or expected under normal use.  
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Product:**

Toxicity to fish : Remarks: No information available.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No information available.

Toxicity to algae : Remarks: No information available.

**Components:**

**propan-2-ol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l  
Exposure time: 96 h

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Test Type: flow-through test  
Method: OECD Test Guideline 203  
GLP: no

LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 9,714 mg/l  
Exposure time: 24 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: no

### **4-tert-butylcyclohexyl acetate:**

Toxicity to fish : LC50 : 8.6 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 : 5.3 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 : 22 mg/l  
Exposure time: 72 h  
GLP: yes

### **Linalool:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 27.8 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 59 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 88.3 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: see user defined free text  
GLP: no

## 12.2 Persistence and degradability

### **Product:**

Biodegradability : Remarks: No information available.

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**Components:**

**4-tert-butylcyclohexyl acetate:**

Biodegradability : Result: Readily biodegradable

**Linalool:**

Biodegradability : Result: Readily biodegradable

**12.3 Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: Does not bioaccumulate.

**12.4 Mobility in soil**

**Product:**

Mobility : Remarks: No information available.

**12.5 Results of PBT and vPvB assessment**

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

**12.6 Other adverse effects**

**Product:**

Additional ecological information : There is no data available for this product.

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**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Product : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.  
Do not re-use empty containers.

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**SECTION 14: Transport information**

**14.1 UN number**

ADR : UN 1993

IMDG : UN 1993

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**IATA** : UN 1993

**14.2 UN proper shipping name**

**ADR** : FLAMMABLE LIQUID, N.O.S.  
(Isopropanol)

**IMDG** : FLAMMABLE LIQUID, N.O.S.  
(Isopropanol)

**IATA** : Flammable liquid, n.o.s.  
(Isopropanol)

**14.3 Transport hazard class(es)**

**ADR** : 3

**IMDG** : 3

**IATA** : 3

**14.4 Packing group**

**ADR**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)

**IMDG**  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E

**IATA**  
Packing instruction (cargo aircraft) : 366  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

**14.5 Environmental hazards**

**ADR**  
Environmentally hazardous : no

**IMDG**  
Marine pollutant : no

**14.6 Special precautions for user**

Not applicable

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Remarks : No information available.

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c	FLAMMABLE LIQUIDS	Quantity 1 5,000 t	Quantity 2 50,000 t
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Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 17.38 %, 825.9 g/l  
Remarks: VOC content excluding water

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 17.38 %, 170.31 g/l  
Remarks: VOC content valid only for coating materials used on wood surfaces

#### The components of this product are reported in the following inventories:

REACH : This mixture contains only ingredients which have been subject to a pre-registration according to Regulation (EC) No. 1907/2006 (REACH).

#### 15.2 Chemical safety assessment

No information available.

### SECTION 16: Other information

#### Full text of H-Statements

H225 : Highly flammable liquid and vapour.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H319 : Causes serious eye irritation.  
H336 : May cause drowsiness or dizziness.

#### Full text of other abbreviations

Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation  
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN

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- Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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