Room Fresh Citrus

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

1.1. Product identifier

Trade name/designation:

Room Fresh Citrus

Article No.:
T417004

UFI:
EDJ3-UF03-XV0A-2D3S

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

Use of the substance/mixture:
Deodorizer

*

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH
Hartleitnerstraße 3
4653 Eberstalzell
Austria
Telephone: +43 (0) 7241 213 79
E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07
Exclamation mark

Signal word: Warning

Hazard components for labelling:
citral; 2,6-octadien-1-ol, 3,7-dimethyl-, (E)-(geraniol); 6-Okten-1-ol, 3,7-Dimethyl-(Citronellol); 6-Octenal, 3,7-dimethyl- (Citronellal); (R)-p-Mentha-1,8-diene d-Limones; dodecanal; Citronella oil; Orange oil, sweet

Hazard statements for health hazards	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Precautionary statements Prevention	
P264	Wash hands thoroughly after handling.

Precautionary statements Response	
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Precautionary statements Disposal	
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

2.3. Other hazards

Adverse physicochemical effects:
The mixture is not flammable. When heated strongly, toxic pyrolysis products and carbon monoxide may be formed.

Adverse human health effects and symptoms:
The mixture may cause allergic skin reactions. Sensitive persons should avoid contact. The product used for impregnation of the mixture is classified as harmful to eyes and irritating to skin. In usual product form it does not pose a risk to health. Avoid skin and eye contact. Prolonged fragrance inhalation may cause headache. Avoid prolonged and repeated skin contact and fragrance inhalation. Read the instructions for use.

Adverse environmental effects:
The mixture contains some environmentally hazardous substances. There is no risk to health or the environment in the concentration and product form stated here. Read the instructions for use for risk elimination.

Other adverse effects:
The mixture and its constituents do not meet the criteria for persistent, bioaccumulative and toxic or very persistent and very bioaccumulative substances set out in Annex XIII, nor have they been listed for endocrine disrupting properties in accordance with Article 59(1), nor have endocrine disrupting properties been identified in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:
Solid plastic, slow-release, deodorising preparation in the shape of the oval. It is made of pigmented impregnated thermoplastic. The colour corresponds to the perfume.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 24937-78-8 EC No.: 607-457-0	**Ethylen-Vinyl Azetat Copolymer** The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	60 – 80 Vol-%
CAS No.: 5392-40-5 EC No.: 226-394-6 Index No.: 605-019-00-3 REACH No.: 01-2119462829-23	**citral** Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Warning **Specific concentration limit (SCL)** Skin Irrit. 2; H315: C ≥ 10% Skin Sens. 1; H317: C ≥ 1% **Acute Toxicity Estimate** ATE (oral) 4,960 mg/kg ATE (dermal) 2,250 mg/kg	3.5 – 6.5 Vol-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 122-99-6 EC No.: 204-589-7 Index No.: 603-098-00-9	**2-phenoxyethanol** Acute Tox. 4 (H302), Eye Dam. 1 (H318), STOT SE 3 (H335)  Danger **Specific concentration limit (SCL)** Eye Dam. 1; H318: C ≥ 3% Eye Irrit. 2; H319: 1% ≤ C < 3% STOT SE 3; H335: 20% ≤ C < 100% **Acute Toxicity Estimate** ATE (oral) 1,394 mg/kg ATE (dermal) 14,422 mg/kg	0.25 – 2.5 Vol-%
CAS No.: 106-24-1 EC No.: 203-377-1	**2,6-octadien-1-ol, 3,7-dimethyl-, (E)-(geraniol)** Eye Dam. 1 (H318), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Danger **Specific concentration limit (SCL)** Skin Irrit. 2; H315: C ≥ 10% Eye Dam. 1; H318: C ≥ 3% Skin Sens. 1; H317: C ≥ 1%	0.25 – 2.5 Vol-%
CAS No.: 106-22-9 EC No.: 203-375-0	**6-Okten-1-ol, 3,7-Dimethyl-(Citronellol)** The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	0.25 – 2.5 Vol-%
CAS No.: 106-23-0 EC No.: 203-376-6	**6-Octenal, 3,7-dimethyl- (Citronellal)** Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Warning **Specific concentration limit (SCL)** Skin Irrit. 2; H315: C ≥ 10% Skin Sens. 1; H317: C ≥ 1% Eye Irrit. 2; H319: C ≥ 10%	0.25 – 2.5 Vol-%
CAS No.: 51566-62-2 EC No.: 257-288-8	**6-octenitriles, 3,7-dimethyl-** Aquatic Chronic 3 (H412)	0.25 – 2.5 Vol-%
CAS No.: 120-51-4 EC No.: 204-402-9 Index No.: 607-085-00-9	**benzyl benzoate** Acute Tox. 4 (H302), Aquatic Chronic 2 (H411)  Warning **Acute Toxicity Estimate** ATE (oral) 500 mg/kg	0.25 – 2.5 Vol-%
CAS No.: 5989-27-5 EC No.: 227-813-5 Index No.: 601-029-00-7 REACH No.: 01-2119529223-47	**(R)-p-Mentha-1,8-diene d-Limones** Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Warning **Specific concentration limit (SCL)** Skin Irrit. 2; H315: C ≥ 10% Skin Sens. 1; H317: C ≥ 1%	0.25 – 2.5 Vol-%
CAS No.: 112-31-2 EC No.: 203-957-4	**decanal** Aquatic Chronic 3 (H412), Eye Irrit. 2 (H319)  Warning **Specific concentration limit (SCL)** Eye Irrit. 2; H319: C ≥ 10%	0.25 – 2.5 Vol-%
CAS No.: 112-54-9 EC No.: 203-983-6	**dodecanal** Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Warning **Specific concentration limit (SCL)** Skin Irrit. 2; H315: C ≥ 10% Skin Sens. 1; H317: C ≥ 1% Eye Irrit. 2; H319: C ≥ 10%	0.25 – 2.5 Vol-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 8000-29-1	**Citronella oil** Aquatic Chronic 2 (H411), Eye Dam. 1 (H318), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Danger **Specific concentration limit (SCL)** Skin Irrit. 2; H315: C ≥ 10% Skin Sens. 1; H317: C ≥ 10% Eye Dam. 1; H318: C ≥ 3%	0.25 – 2.5 Vol-%
CAS No.: 8008-57-9	**Orange oil, sweet** Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Danger **Specific concentration limit (SCL)** Skin Irrit. 2; H315: C ≥ 10% Skin Sens. 1; H317: C ≥ 1%	0.25 – 2.5 Vol-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
If you feel unwell, seek medical advice and show the safety data sheet to a doctor.

Following inhalation:
No acute effects expected. Provide fresh air in case of discomfort.

In case of skin contact:
Wash off immediately with soap and water and rinse well.

After eye contact:
Eye contact is unlikely. In case of contact with eyes, rinse immediately with plenty of water or eye wash.

Following ingestion:
Ingestion is unlikely because of the product shape. Chewing and swallowing is difficult. If swallowed, rinse the mouth.

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

The mixture may cause allergic skin reactions. Sensitive persons should avoid contact. Avoid contact with skin and eyes. Prolonged fragrance inhalation may cause headache.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Co-ordinate fire-fighting measures to the fire surroundings.
Extinguishing powder, Carbon dioxide, Foam, Water spray jet

Unsuitable extinguishing media:
none

5.2. Special hazards arising from the substance or mixture

Strong heating can produce toxic pyrolysis products, carbon monoxide, carbon dioxide and unburned hydrocarbons.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

No special requirements in case of accidental release. Observe the usual protective measures.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Comply with general environmental protection measures. No substances are washed out of the product.

6.3. Methods and material for containment and cleaning up

Other information:

Due to the product form, release is unlikely.

6.4. Reference to other sections

See section 7 for further information on safe handling.
For further information on personal protective equipment: see section 8.
For further information on disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

No special measures required if used properly. Keep away from sources of ignition - No smoking. When using do not eat, drink, smoke, sniff. Comply with the applicable laws on health and environmental protection. The workspace shall be equipped with a water source.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep only in the original container in a cool, well-ventilated place. Storage temperature should not exceed 30°C.

7.3. Specific end use(s)

Recommendation:

Deodorizer

SECTION 8: Exposure controls/personal protection

*

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT) from 25 Sept 2018	**2-phenoxyethanol** CAS No.: 122-99-6 EC No.: 204-589-7	① 20 ppm (110 mg/m³) ② 20 ppm (110 mg/m³) ⑤ (Momentanwert)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Avoid contact with eyes and skin. The usual precautions when handling chemicals must be observed. Wash hands before breaks and after work.

8.2.2. Personal protection equipment

Eye/face protection:
Not required.

Skin protection:
Hand protection:
Avoid direct contact with the product. Chemical resistant protective gloves recommended for sensitive persons.

Skin protection:
Avoid prolonged skin contact.

Respiratory protection:
Normally not required.

Thermal hazards:
Not required.

8.2.3. Environmental exposure controls

Comply with general environmental protection measures. No substances are washed out of the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Form: Thermoplastic urinal insert impregnated with perfume oils

Colour: yellow

Odour: Citrus

flammability: No data available

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	*not applicable*	
Melting point	60 °C	
Freezing point	*No data available*	
Initial boiling point and boiling range	*No data available*	
Evaporation rate	*No data available*	
Auto-ignition temperature	*not applicable*	
Vapour pressure	*No data available*	
Density	*No data available*	
Bulk density	*No data available*	
Water solubility	Immiscible	

particle characteristics:
No data available

9.2. Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions expected under normal conditions.

10.2. Chemical stability

Chemically stable under conditions of storage, handling and use.

10.3. Possibility of hazardous reactions
No data available.

10.4. Conditions to avoid
Avoid flashover and extreme heating.

10.5. Incompatible materials
strong oxidants

10.6. Hazardous decomposition products
No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

citral CAS No.: 5392-40-5 EC No.: 226-394-6	
LD_{50} oral: 4,960 mg/kg (Rat)	
LD_{50} dermal: 2,250 mg/kg (Rabbit)	
2-phenoxyethanol CAS No.: 122-99-6 EC No.: 204-589-7	
ATE (oral): 1,394 mg/kg	
LD_{50} oral: 1,260 mg/kg (Rat)	
LD_{50} dermal: 14,422 mg/kg (Rat)	

Acute oral toxicity:
Based on available data, the classification criteria are not met.

Acute dermal toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Causes skin irritation.

Serious eye damage/irritation:
Causes serious eye irritation.

Respiratory or skin sensitisation:
May cause an allergic skin reaction.

Germ cell mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity:
Based on available data, the classification criteria are not met.

STOT-single exposure:
Based on available data, the classification criteria are not met.

STOT-repeated exposure:
Based on available data, the classification criteria are not met.

Aspiration hazard:
Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties:
The product does not contain any substances with endocrine-disrupting properties.

Other information:
The mixture may cause allergic skin reactions. Sensitive persons should avoid contact. Avoid contact with skin and eyes. Prolonged fragrance inhalation may cause headache.

SECTION 12: Ecological information

12.1. Toxicity

citral	CAS No.: 5392-40-5 EC No.: 226-394-6
LC_{50}:	6.78 mg/L 4 d (fish, Leuciscus idus)
EC_{50}:	6.8 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}:	103.8 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
2-phenoxyethanol	CAS No.: 122-99-6 EC No.: 204-589-7
LC_{50}:	>1,000 mg/L 4 d (fish, Leuciscus idus)

Assessment/classification:
The mixture contains substances classified as toxic to aquatic organisms. The product is not classified in view of the condition, Article 9, Section 5 of Regulation (EC) No 1272/2008. In used product form it poses practically no risk to the environment. Due to the product form, release is unlikely.

12.2. Persistence and degradability

citral	CAS No.: 5392-40-5 EC No.: 226-394-6
Biodegradation:	Yes, rapidly

Additional information:
not applicable

12.3. Bioaccumulative potential

citral	CAS No.: 5392-40-5 EC No.: 226-394-6
Bioconcentration factor (BCF):	89.72

Accumulation / Evaluation:
not applicable

12.4. Mobility in soil
not applicable

12.5. Results of PBT and vPvB assessment

Ethylen-Vinyl Azetat Copolymer	CAS No.: 24937-78-8 EC No.: 607-457-0
Results of PBT and vPvB assessment:	—
citral	CAS No.: 5392-40-5 EC No.: 226-394-6
Results of PBT and vPvB assessment:	—
2-phenoxyethanol	CAS No.: 122-99-6 EC No.: 204-589-7
Results of PBT and vPvB assessment:	—
2,6-octadien-1-ol, 3,7-dimethyl-, (E)-(geraniol)	CAS No.: 106-24-1 EC No.: 203-377-1
Results of PBT and vPvB assessment:	—
6-Okten-1-ol, 3,7-Dimethyl-(Citronellol)	CAS No.: 106-22-9 EC No.: 203-375-0
Results of PBT and vPvB assessment:	—
6-Octenal, 3,7-dimethyl- (Citronellal)	CAS No.: 106-23-0 EC No.: 203-376-6
Results of PBT and vPvB assessment:	—
6-octenitriles, 3,7-dimethyl-	CAS No.: 51566-62-2 EC No.: 257-288-8
Results of PBT and vPvB assessment:	—
(R)-p-Mentha-1,8-diene d-Limones	CAS No.: 5989-27-5 EC No.: 227-813-5
Results of PBT and vPvB assessment:	—
dodecanal	CAS No.: 112-54-9 EC No.: 203-983-6
Results of PBT and vPvB assessment:	—

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties
None of the ingredients are included.

12.7. Other adverse effects
No further relevant information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste according to applicable legislation. May be disposed of in household waste landfill.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments
not applicable

SECTION 15: Regulatory information

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

15.1.1. EU legislation
Authorisations:
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006, as amended.
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended.

15.1.2. National regulations
No data available

15.2. Chemical Safety Assessment
A chemical safety assessment has not been carried out.

SECTION 16: Other information

* **16.1. Indication of changes**

1.3.	Details of the supplier of the safety data sheet
8.1.	Control parameters
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture

16.1.	Indication of changes
16.2.	Abbreviations and acronyms

*
16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
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
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
ES	Exposure scenario
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

16.3. Key literature references and sources for data
No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Hazard statements	
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.