SAFETY DATA SHEET
ActiveAire® Automated Freshener Dispenser Refill, Sunscape

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

1.1 Product identifier

Product name: ActiveAire® Automated Freshener Dispenser Refill, Sunscape
Product code: 48251EU
Product type: Solid.
Other means of identification: Not available.

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

Product use: Washroom air freshener
Area of application: Consumer applications.

1.3 Details of the supplier of the safety data sheet

Georgia-Pacific Consumer Products LP
133 Peachtree Street NE
Atlanta, GA 30303-2529
(001) 866-435-5647
Importer/Supplier/Distributor

e-mail address of person responsible for this SDS
msdsreq@gapac.com

1.4 Emergency telephone number

Supplier
Telephone number: CHEMTREC +1-703-741-5970 (Int'l) 24hrs
CHEMTREC 800-424-9300 (U.S. & Canada only)

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

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

Skin Sens. 1, H317
Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown toxicity:
1.6 percent of the mixture consists of component(s) of unknown oral toxicity
1.6 percent of the mixture consists of component(s) of unknown dermal toxicity
18 percent of the mixture consists of component(s) of unknown inhalation toxicity

See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms:

- !
- ☢️

Signal word: Warning

Hazard statements:
H317 - May cause an allergic skin reaction.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

General:
P103 - Read label before use.
P102 - Keep out of reach of children.
P101 - If medical advice is needed, have product container or label at hand.

Prevention:
P280 - Wear protective gloves.
P273 - Avoid release to the environment.
P261 - Avoid breathing dust.

Response:
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 - If skin irritation or rash occurs: Get medical attention.

Storage:
Not applicable.

Disposal:
P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients:
(R)-p-mentha-1,8-diene
geraniol
2-(4-tert-butylbenzyl)propionaldehyde
2,4-dimethylcyclohex-3-ene-1-carbaldehyde
3-(4-tert-butylphenyl)propionaldehyde

Supplemental label elements:
Not applicable.

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**SECTION 2: Hazards identification**

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

**Special packaging requirements**

- **Containers to be fitted with child-resistant fastenings**: Not applicable.
- **Tactile warning of danger**: Not applicable.

**2.3 Other hazards**

- **Other hazards which do not result in classification**: None known.

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

**3.2 Mixtures**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>(R)-p-mentha-1,8-diene</td>
<td>EC: 227-813-5 CAS: 5989-27-5 Index: 601-029-00-7</td>
<td>≤3</td>
<td>Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)</td>
<td>[1]</td>
</tr>
<tr>
<td>geraniol</td>
<td>EC: 203-377-1 CAS: 106-24-1</td>
<td>&lt;1</td>
<td>Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317</td>
<td>[1]</td>
</tr>
<tr>
<td>2-(4-tert-butylbenzyl) propionaldehyde</td>
<td>EC: 201-289-8 CAS: 80-54-6</td>
<td>&lt;1</td>
<td>Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319</td>
<td>[1]</td>
</tr>
</tbody>
</table>

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SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>EC Number</th>
<th>CAS Number</th>
<th>Quantity</th>
<th>H Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4-dimethylcyclohex-3-ene-1-carbaldehyde</td>
<td>268-264-1</td>
<td>68039-49-6</td>
<td>≤0.3</td>
<td>Skin Sens. 1B, H317 Rep. 2, H361f (Fertility) Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>2,6-di-tert-butyl-p-cresol</td>
<td>204-881-4</td>
<td>128-37-0</td>
<td>≤0.3</td>
<td>Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

**Type**

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

**4.1 Description of first aid measures**

- **Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- **Inhalation**: Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Call a physician if symptoms develop or persist. Move to fresh air.
- **Skin contact**: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
SECTION 4: First aid measures

Ingestion: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact: No specific data.
- Inhalation: No specific data.
- Skin contact: Adverse symptoms may include the following:
  - irritation
  - redness
- Ingestion: No specific data.

Specific treatments: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture: This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products: Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
  - hydrocarbons
SECTION 5: Firefighting measures

5.3 Advice for firefighters

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up

Small spill: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill: Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds (in tonnes)

<table>
<thead>
<tr>
<th>Danger criteria</th>
<th>Notification and MAPP threshold</th>
<th>Safety report threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E2: Hazardous to the aquatic environment - Chronic 2</td>
<td>200</td>
<td>500</td>
</tr>
</tbody>
</table>

7.3 Specific end use(s)

Recommendations: Not available.

Industrial sector specific solutions: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-di-tert-butyl-p-cresol</td>
<td>EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m³ 8 hours.</td>
</tr>
</tbody>
</table>

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SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures:
If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs
No DNELs/DMELs available.

PNECs
No PNECs available

8.2 Exposure controls

Appropriate engineering controls:
Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures:
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection:
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection:
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
SECTION 8: Exposure controls/personal protection

**Other skin protection**
Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection**
Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure controls**
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

**Appearance**

- **Physical state**: Solid.
- **Colour**: Not available.
- **Odour**: Characteristic.
- **Odour threshold**: Not available.
- **pH**: Not available.
- **Melting point/freezing point**: Not available.
- **Initial boiling point and boiling range**: Not available.
- **Flash point**: Closed cup: >93.3°C
- **Evaporation rate**: Not available.
- **Flammability (solid, gas)**: Not available.
- **Upper/lower flammability or explosive limits**: Not available.
- **Vapour pressure**: 0.0013 to 0.012 kPa [room temperature]
- **Vapour density**: Not available.
- **Relative density**: Not available.
- **Solubility(ies)**: Not available.
- **Partition coefficient: n-octanol/water**: Not available.
- **Auto-ignition temperature**: >330°C
- **Decomposition temperature**: >300°C
- **Viscosity**: Not available.
- **Explosive properties**: Not available.
- **Oxidising properties**: Not available.

9.2 Other information

**ActiveAire® Automated Freshener Dispenser Refill, Sunscape**

## SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility in water</td>
<td>Not available.</td>
</tr>
<tr>
<td>Density</td>
<td>0.9 to 0.98 g/cm³</td>
</tr>
<tr>
<td>Physical/chemical properties comments</td>
<td>No additional information.</td>
</tr>
</tbody>
</table>

## SECTION 10: Stability and reactivity

### 10.1 Reactivity
No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability
The product is stable.

### 10.3 Possibility of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid
Avoid temperature >210°C. Keep away from heat, sparks and flame. Protect from sunlight.

### 10.5 Incompatible materials
Reactive or incompatible with the following materials: oxidizing materials.

### 10.6 Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>benzyl benzoate</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>4 g/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2800 mg/kg</td>
<td></td>
</tr>
<tr>
<td>(R)-p-mentha-1,8-diene</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;5000 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>4400 mg/kg</td>
<td></td>
</tr>
<tr>
<td>geraniol</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;5000 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2.1 g/kg</td>
<td></td>
</tr>
<tr>
<td>allyl heptanoate</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>810 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>500 mg/kg</td>
<td></td>
</tr>
<tr>
<td>2-(4-tert-butylbenzyl) propionaldehyde</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;5000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>2,6-di-tert-butyl-p-cresol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1390 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>890 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

**Conclusion/Summary**: Not available.

**Acute toxicity estimates**

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SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>3536.1 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>213157.9 mg/kg</td>
</tr>
<tr>
<td>Inhalation (vapours)</td>
<td>647.8 mg/l</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>(R)-p-mentha-1,8-diene</td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 10 Percent</td>
<td>-</td>
</tr>
<tr>
<td>geraniol</td>
<td>Skin - Mild irritant</td>
<td>Guinea pig</td>
<td>-</td>
<td>30 Percent</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Severe irritant</td>
<td>Guinea pig</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>4 hours 0.5 Milliliters</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>allyl heptanoate</td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>2-(4-tert-butylbenzyl) propionaldehyde</td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>2,6-di-tert-butyl-p-cresol</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>48 hours 500 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

Conclusion/Summary: Not available.

Sensitisation
Conclusion/Summary: Not available.

Mutagenicity
Conclusion/Summary: Not available.

Carcinogenicity
Conclusion/Summary: Not available.

Reproductive toxicity
Conclusion/Summary: Not available.

Teratogenicity
Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)
Not available.

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.
SECTION 11: Toxicological information

Information on likely routes of exposure:
Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects:
- **Eye contact**: No known significant effects or critical hazards.
- **Inhalation**: No known significant effects or critical hazards.
- **Skin contact**: May cause an allergic skin reaction.
- **Ingestion**: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics:
- **Eye contact**: No specific data.
- **Inhalation**: No specific data.
- **Skin contact**: Adverse symptoms may include the following:
  - irritation
  - redness
- **Ingestion**: No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

**Short term exposure**:
- **Potential immediate effects**: Not available.
- **Potential delayed effects**: Not available.

**Long term exposure**:
- **Potential immediate effects**: Not available.
- **Potential delayed effects**: Not available.

**Potential chronic health effects**:
Not available.

**Conclusion/Summary**:
Not available.

**General**:
Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity**:
No known significant effects or critical hazards.

**Mutagenicity**:
No known significant effects or critical hazards.

**Teratogenicity**:
No known significant effects or critical hazards.

**Developmental effects**:
No known significant effects or critical hazards.

**Fertility effects**:
No known significant effects or critical hazards.

**Other information**:
Not available.
## 12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>benzyl benzoate</td>
<td>Acute LC50 1.4 ppm Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td>(R)-p-mentha-1,8-diene</td>
<td>Acute EC50 421 μg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 688 μg/l Fresh water</td>
<td>Fish - Pimephales promelas -</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Juvenile (Fledgling, Hatchling,</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Weanling)</td>
<td></td>
</tr>
<tr>
<td>cis-2-tert-butylcyclohexyl acetate</td>
<td>Acute EC50 17 mg/l Fresh water</td>
<td>Daphnia</td>
<td>48 hours</td>
</tr>
<tr>
<td>geraniol</td>
<td>Acute LC50 5.6 mg/l Fresh water</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
<tr>
<td>allyl heptanoate</td>
<td>Acute EC50 10.8 mg/l Fresh water</td>
<td>Daphnia</td>
<td>48 hours</td>
</tr>
<tr>
<td>2,6-di-tert-butyl-p-cresol</td>
<td>Acute EC50 0.89 mg/l</td>
<td>Daphnia</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 0.48 mg/l Fresh water</td>
<td>Daphnia</td>
<td></td>
</tr>
</tbody>
</table>

### Conclusion/Summary
Not available.

## 12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Result</th>
<th>Dose</th>
<th>Inoculum</th>
</tr>
</thead>
<tbody>
<tr>
<td>(R)-p-mentha-1,8-diene</td>
<td>OECD 301D Ready Biodegradability - Closed Bottle Test</td>
<td>80 % - 28 days</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>geraniol</td>
<td>301F Ready Biodegradability - Manometric Respirometry Test</td>
<td>94 % - Readily - 28 days</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>allyl heptanoate</td>
<td>OECD 301F Ready Biodegradability - Manometric Respirometry Test</td>
<td>81 % - Readily - 28 days</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2,6-di-tert-butyl-p-cresol</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>&lt;10 % - 20 days</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Conclusion/Summary
Not available.
SECTION 12: Ecological information

12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>benzyl benzoate</td>
<td>3.97</td>
<td>193.4</td>
<td>low</td>
</tr>
<tr>
<td>(R)-p-mentha-1,8-diene</td>
<td>4.38</td>
<td>-</td>
<td>high</td>
</tr>
<tr>
<td>geraniol</td>
<td>2.6</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>allyl heptanoate</td>
<td>3.97</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>2-(4-tert-butylbenzyl) propionaldehyde</td>
<td>4.2</td>
<td>-</td>
<td>high</td>
</tr>
<tr>
<td>2,6-di-tert-butyl-p-cresol</td>
<td>5.1</td>
<td>330 to 1800</td>
<td>high</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

- **Soil/water partition coefficient (K<sub>OC</sub>):** Not available.
- **Mobility:** Not available.

12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

12.6 Other adverse effects

: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

**Product**

- **Methods of disposal:** The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional/local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste**

: The classification of the product may meet the criteria for a hazardous waste.

**Packaging**

- **Methods of disposal:** The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions**

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
SECTION 14: Transport information

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 UN proper shipping name</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user: Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV
None of the components are listed.

Substances of very high concern
None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
None of the components are listed.

Other EU regulations

Europe inventory: Not determined.

Ozone depleting substances (1005/2009/EU)
Not listed.

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SECTION 15: Regulatory information

Prior Informed Consent (PIC) (649/2012/EU)
Not listed.

Seveso Directive
This product is controlled under the Seveso Directive.

Danger criteria

Category
E2: Hazardous to the aquatic environment - Chronic 2

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.

Montreal Protocol (Annexes A, B, C, E)
Not listed.

Stockholm Convention on Persistent Organic Pollutants
Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)
Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.

15.2 Chemical safety assessment
This product contains substances for which Chemical Safety Assessments are still required.

15.3 Registration status
Mixture. Information concerning the substance: Contact local supplier or distributor.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms:
ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

ActiveAire® Automated Freshener Dispenser Refill, Sunscape

SECTION 16: Other information

Key literature references and sources for data:
Regulation (EC) No. 1272/2008 [CLP]; European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), concluded in Geneva on 30 September 1957 plus amendments (Uniform text: Journal of Laws 27/2009 pos. 162 plus amendments); Regulation for the transport of dangerous materials on the Rhine (ADN); Occupational exposure limits; International regulations

Training advice:
Ensure operatives are trained to minimise exposures. Training staff on good practice.

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<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Sens. 1, H317</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 2, H411</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Full text of abbreviated H statements:

- **Skin Sens. 1, H317**: May cause an allergic skin reaction.
- **Aquatic Chronic 2, H411**: Toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]:

- **Acute Tox. 3, H311**: ACUTE TOXICITY (dermal) - Category 3
- **Acute Tox. 3, H331**: ACUTE TOXICITY (inhalation) - Category 3
- **Acute Tox. 4, H302**: ACUTE TOXICITY (oral) - Category 4
- **Aquatic Acute 1, H400**: SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
- **Aquatic Chronic 1, H410**: LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
- **Aquatic Chronic 2, H411**: LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
- **Aquatic Chronic 3, H412**: LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
- **Eye Dam. 1, H318**: SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
- **Eye Irrit. 2, H319**: SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
- **Flam. Liq. 3, H226**: FLAMMABLE LIQUIDS - Category 3
- **Repr. 2, H361f**: REPRODUCTIVE TOXICITY (Fertility) - Category 2
- **Skin Irrit. 2, H315**: SKIN CORROSION/IRRITATION - Category 2
- **Skin Sens. 1, H317**: SKIN SENSITISATION - Category 1
- **Skin Sens. 1B, H317**: SKIN SENSITISATION - Category 1B

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SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.