# 1 Identification

- **Product identifier**: 07931
- **Trade name**: 07931 Metered Hospeco Citrus Grove
- **Manufacturer article number**: EAEDC194
- **Application of the substance / the mixture**: Air Freshener.
- **Details of the supplier of the safety data sheet**: (744)(9)
- **Manufacturer/Supplier**: HOSPECO
  - Cleveland OH 44143
  - P: 800.321.9832
  - F: 800.362.0073
  - www.hospeco.com
- **Information department**: HOSPECO Technical Support
- **Emergency telephone number**: P: 800.321.9832

# 2 Hazard(s) identification

- **Classification of the substance or mixture**
  - ![GHS02 Flame](image)
  - Flam. Aerosol 1 H222 Extremely flammable aerosol.
  - ![GHS04 Gas cylinder](image)
  - Press. Gas H280 Contains gas under pressure; may explode if heated.
  - ![GHS07](image)
  - Eye Irrit. 2A H319 Causes serious eye irritation.
  - Skin Sens. 1 H317 May cause an allergic skin reaction.
  - STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**
  - **GHS label elements**: The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**
    - ![GHS02](image)
    - ![GHS04](image)
    - ![GHS07](image)

- **Signal word**: Danger

- **Hazard-determining components of labeling**
  - acetone
  - (R)-p-mentha-1,8-diene
  - Linalool

- **Hazard statements**
  - Extremely flammable aerosol.
  - Contains gas under pressure; may explode if heated.

(Contd. on page 2)
Trade name: 07931 Metered Hospeco Citrus Grove

Causes serious eye irritation.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.

Precautionary statements
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves / eye protection / face protection.
If on skin: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a poison center/doctor if you feel unwell.
Specific treatment (see on this label).
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Store in a well-ventilated place.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:
NFPA ratings (scale 0 - 4)

Health = 2
Fire = 4
Reactivity = 1

HMIS-ratings (scale 0 - 4)

HEALTH 2 Health = 2
    FIRE 4 Fire = 4
    REACTIVITY 1 Reactivity = 1

Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures
Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>&gt;50-5100%</td>
</tr>
</tbody>
</table>

(Contd. on page 3)
4 First-aid measures

- **Description of first aid measures**
  - **After inhalation:**
    - Supply fresh air and to be sure call a doctor.
    - In case of unconsciousness place patient stably in side position for transportation.
  - **After skin contact:**
    - Immediately wash with water and soap and rinse thoroughly.
  - **After eye contact:**
    - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - **After swallowing:**
    - If symptoms persist consult doctor.
  - **Information for doctor:**
    - **Most important symptoms and effects, both acute and delayed** No further relevant information available.
    - **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents:**
  - **Special hazards arising from the substance or mixture** No further relevant information available.
  - **Advice for firefighters**
  - **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**
  - Dispose contaminated material as waste according to item 13.
  - Ensure adequate ventilation.
- **Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**
  - **PAC-1:**
    - 67-64-1 acetone 200 ppm
    - 75-28-5 isobutane 5500* ppm
    - 74-98-6 propane 5500* ppm

(Contd. on page 4)
### Trade name: 07931 Metered Hospeco Citrus Grove

<table>
<thead>
<tr>
<th>Compound</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>106-97-8 butane</td>
<td>5500* ppm</td>
</tr>
<tr>
<td>5989-27-5 (R)-p-mentha-1,8-diene</td>
<td>15 ppm</td>
</tr>
<tr>
<td>110-91-8 morpholine</td>
<td>30 ppm</td>
</tr>
<tr>
<td>142-90-5 dodecyl methacrylate</td>
<td>6.9 ppm</td>
</tr>
<tr>
<td>91-64-5 Coumarin</td>
<td>0.88 mg/m³</td>
</tr>
</tbody>
</table>

**PAC-2:**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td>3200* ppm</td>
</tr>
<tr>
<td>75-28-5 isobutane</td>
<td>17000** ppm</td>
</tr>
<tr>
<td>74-98-6 propane</td>
<td>17000** ppm</td>
</tr>
<tr>
<td>106-97-8 butane</td>
<td>17000** ppm</td>
</tr>
<tr>
<td>5989-27-5 (R)-p-mentha-1,8-diene</td>
<td>67 ppm</td>
</tr>
<tr>
<td>110-91-8 morpholine</td>
<td>1,300 ppm</td>
</tr>
<tr>
<td>142-90-5 dodecyl methacrylate</td>
<td>76 ppm</td>
</tr>
<tr>
<td>91-64-5 Coumarin</td>
<td>9.7 mg/m³</td>
</tr>
</tbody>
</table>

**PAC-3:**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td>5700* ppm</td>
</tr>
<tr>
<td>75-28-5 isobutane</td>
<td>53000*** ppm</td>
</tr>
<tr>
<td>74-98-6 propane</td>
<td>33000*** ppm</td>
</tr>
<tr>
<td>106-97-8 butane</td>
<td>53000*** ppm</td>
</tr>
<tr>
<td>5989-27-5 (R)-p-mentha-1,8-diene</td>
<td>170 ppm</td>
</tr>
<tr>
<td>110-91-8 morpholine</td>
<td>8000** ppm</td>
</tr>
<tr>
<td>142-90-5 dodecyl methacrylate</td>
<td>460 ppm</td>
</tr>
<tr>
<td>91-64-5 Coumarin</td>
<td>58 mg/m³</td>
</tr>
</tbody>
</table>

### 7 Handling and storage

**Handling:**

- **Precautions for safe handling**: Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires**:
  
  Do not spray on a naked flame or any incandescent material.
  
  Keep ignition sources away - Do not smoke.
  
  Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

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

**Storage:**

- **Requirements to be met by storerooms and receptacles**:
  
  Observe official regulations on storing packagings with pressurized containers.

- **Information about storage in one common storage facility**: Not required.
- **Further information about storage conditions**: Keep receptacle tightly sealed.
- **Specific end use(s)**: No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems**: No further data; see item 7.
Control parameters

Components with limit values that require monitoring at the workplace:
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

<table>
<thead>
<tr>
<th>Component</th>
<th>PEL Long-term value: 2400 mg/m³, 1000 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone</td>
<td>REL Long-term value: 590 mg/m³, 250 ppm</td>
</tr>
<tr>
<td></td>
<td>TLV Short-term value: 1187 mg/m³, 500 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 594 mg/m³, 250 ppm BEI</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>TLV Short-term value: 2370 mg/m³, 1000 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>isobutane</td>
<td>(EX)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>PEL Long-term value: 1800 mg/m³, 1000 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>propane</td>
<td>REL Long-term value: 1800 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td></td>
<td>TLV refer to Appendix F in TLVs &amp; BEIs book; D, EX</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>REL Long-term value: 1900 mg/m³, 800 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>butane</td>
<td>TLV Short-term value: 2370 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td></td>
<td>(EX)</td>
</tr>
</tbody>
</table>

Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Component</th>
<th>BEI 50 mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medium: urine</td>
</tr>
<tr>
<td></td>
<td>Time: end of shift</td>
</tr>
<tr>
<td></td>
<td>Parameter: Acetone (nonspecific)</td>
</tr>
</tbody>
</table>

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

Breathing equipment:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
## 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Information</td>
</tr>
<tr>
<td>Appearance:</td>
</tr>
<tr>
<td>Form: Aerosol</td>
</tr>
<tr>
<td>Color: According to product specification</td>
</tr>
<tr>
<td>Odor: Characteristic</td>
</tr>
<tr>
<td>Odor threshold: Not determined.</td>
</tr>
<tr>
<td>pH-value: Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Change in condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/Melting range: Undetermined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range: -44 °C (-47.2 °F)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flash point:</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 0 °C (&lt;32 °F)</td>
</tr>
</tbody>
</table>

| Flammability (solid, gaseous): Not applicable.       |

| Ignition temperature: 460 °C (860 °F)                |

| Decomposition temperature: Not determined.           |

| Auto igniting: Product is not selfigniting.          |

| Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible. |

<table>
<thead>
<tr>
<th>Explosion limits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower: 1.8 Vol %</td>
</tr>
<tr>
<td>Upper: 13 Vol %</td>
</tr>
</tbody>
</table>

| Vapor pressure at 20 °C (68 °F): 3,000 hPa (2,250.2 mm Hg) |

<table>
<thead>
<tr>
<th>Density: Not determined.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative density: Not determined.</td>
</tr>
<tr>
<td>Vapor density: Not determined.</td>
</tr>
<tr>
<td>Evaporation rate: Not applicable.</td>
</tr>
</tbody>
</table>

| Solubility in / Miscibility with Water: Not miscible or difficult to mix. |
Trade name: 07931 Metered Hospeco Citrus Grove

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**
  - Dynamic: Not determined.
  - Kinematic: Not determined.

- **Solvent content:**
  - Organic solvents: 84.6 %
  - VOC content: 26.91 %
  - 269.1 g/l / 2.25 lb/gal

- **Solids content:** 3.4 %

- **Other information**
  - No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**
  - No further relevant information available.

- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
  - **Possibility of hazardous reactions**
    - No dangerous reactions known.
  - **Conditions to avoid**
    - No further relevant information available.
  - **Incompatible materials:**
    - No further relevant information available.
  - **Hazardous decomposition products:**
    - No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
    - **LD/LC50 values that are relevant for classification:**
      - **67-64-1 acetone**
        - Oral LD50 67-64-1 acetone 5,800 mg/kg (rat)
        - Dermal LD50 67-64-1 acetone 20,000 mg/kg (rabbit)
      - **5989-27-5 (R)-p-mentha-1,8-diene**
        - Oral LD50 5989-27-5 (R)-p-mentha-1,8-diene 4,400 mg/kg (rat)

- **Primary irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** Irritating effect.
  - **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**
  - The product shows the following dangers according to internally approved calculation methods for preparations:
    - Irritant

- **Carcinogenic categories**
  - **IARC (International Agency for Research on Cancer)**
    - 5989-27-5 (R)-p-mentha-1,8-diene 3
    - 110-91-8 morpholine 3
    - 91-64-5 Coumarin 3

- **NTP (National Toxicology Program)**
  - None of the ingredients is listed.
### 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **UN-Number**
  - DOT, IMDG, IATA
  - UN1950

- **UN proper shipping name**
  - DOT
  - IMDG: Aerosols, flammable
  - IATA: AEROSOLS

- **Transport hazard class(es)**
  - **DOT**
    - Class: 2.1
    - Label: 2.1

  - **IMDG, IATA**
    - Class: 2.1
    - Label: 2.1

- **Packing group**
  - DOT, IMDG, IATA: not regulated
## 15 Regulatory information

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

#### Sara

- **Section 355 (extremely hazardous substances):**
  
  None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**
  
  None of the ingredients is listed.

#### TSCA (Toxic Substances Control Act):

- 67-64-1 acetone
- 75-28-5 isobutane
- 74-98-6 propane
- 106-97-8 butane
- 25265-71-8 Dipropylene glycol (isomer unspecified)
- 5989-27-5 (R)-p-mentha-1,8-diene
- 78-70-6 Linalool
- 110-91-8 morpholine
- 142-90-5 dodecyl methacrylate

### Triage

- **Environmental hazards:**
  - **Marine pollutant:**
    - No

- **Special precautions for user**
  - **Warning:** Gases

- **Danger code (Kemler):**
  - F-D,S-U

- **EMS Number:**
  - SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C. Clear of living quarters.
  - SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

- **Stowage Code**
  - SW22

- **Segregation Code**
  - SG69

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
  - Not applicable.

- **Transport/Additional information:**

  - **DOT**
    - **Quantity limitations**
      - On passenger aircraft/rail: 75 kg
      - On cargo aircraft only: 150 kg

  - **IMDG**
    - **Limited quantities (LQ)**
      - 1L
    - **Excepted quantities (EQ)**
      - Code: E0
      - Not permitted as Excepted Quantity

  - **UN "Model Regulation":**
    - UN 1950 AEROSOLS, 2.1

### 48.0

Marine pollutant:
- No

Special precautions for user
- Warning: Gases
- -
- EMS Number:
  - F-D,S-U
- Stowage Code
  - SW22
- Segregation Code
  - SG69
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  - Not applicable.
- Transport/Additional information:
  - DOT
    - Quantity limitations
      - On passenger aircraft/rail: 75 kg
      - On cargo aircraft only: 150 kg
  - IMDG
    - Limited quantities (LQ)
      - 1L
    - Excepted quantities (EQ)
      - Code: E0
      - Not permitted as Excepted Quantity
    - UN "Model Regulation":
      - UN 1950 AEROSOLS, 2.1
Trade name: 07931 Metered Hospeco Citrus Grove

5392-40-5 Citral
106-22-9 dl-Citronellol
106-24-1 Geraniol
91-64-5 Coumarin

· Proposition 65
  · Chemicals known to cause cancer:
    None of the ingredients is listed.
  · Chemicals known to cause reproductive toxicity for females:
    None of the ingredients is listed.
  · Chemicals known to cause reproductive toxicity for males:
    None of the ingredients is listed.
  · Chemicals known to cause developmental toxicity:
    None of the ingredients is listed.

· Carcinogenic categories
  · EPA (Environmental Protection Agency)
    67-64-1 acetone I
  · TLV (Threshold Limit Value established by ACGIH)
    67-64-1 acetone A4
    110-91-8 morpholine A4
  · NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients is listed.

· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms
  
  GHS02  GHS04  GHS07

· Signal word Danger

· Hazard-determining components of labeling:
  acetone
  (R)-p-mentha-1,8-diene
  Linalool

· Hazard statements
  Extremely flammable aerosol.
  Contains gas under pressure; may explode if heated.
  Causes serious eye irritation.
  May cause an allergic skin reaction.
  May cause drowsiness or dizziness.

· Precautionary statements
  If medical advice is needed, have product container or label at hand.
  Keep out of reach of children.
  Read label before use.
  Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  Do not spray on an open flame or other ignition source.
  Pressurized container: Do not pierce or burn, even after use.
  Avoid breathing dust/fume/gas/mist/vapors/spray

(Contd. on page 11)
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves / eye protection / face protection.
If on skin: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Call a poison center/doctor if you feel unwell.
Specific treatment (see on this label).
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Store in a well-ventilated place.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Product Safety Department
- Contact: P: 800.321.9832
- Date of preparation / last revision 03/13/2019 / 11

### Abbreviations and acronyms:

- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- BEI: Biological Exposure Limit
- Flam. Aerosol 1: Aerosols – Category 1
- Press. Gas: Gases under pressure – Compressed gas
- Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
- Skin Sens. 1: Skin sensitisation – Category 1
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

### Sources

Additional Information Section 11 and Section 15

“According to IARC Morpholine is not classifiable as to its carcinogenicity to humans (Group 3).
<table>
<thead>
<tr>
<th>Trade name: 07931 Metered Hospeco Citrus Grove</th>
</tr>
</thead>
</table>

* Data compared to the previous version altered.