1 Identification

- Product identifier 325O
- Trade name: 325O Metered IMPACT GENAIRE Citrus Grove
- Manufacturer article number: EAEDC249
- Application of the substance / the mixture: Air Freshener.
- Details of the supplier of the safety data sheet (744)(9)
- Manufacturer/Supplier: Impact Products, LLC
  2840 Centennial Road
  Toledo, Ohio 43617-1898
- Information department: Product Safety Department
- Emergency telephone number:
  Phone: 800.333.1541
  Fax: 800.333.1541
  Email: custserv@impact-products.com
  Emergency Telephone 24 hr
  INFOTRAC 1-352-323-3500 (International)
  1-800-535-5053 (North America)

2 Hazard(s) identification

- Classification of the substance or mixture
  
  GHS02 Flame
  
  Flam. Aerosol 1  H222  Extremely flammable aerosol.
  
  GHS04 Gas cylinder
  
  Press. Gas  H280  Contains gas under pressure; may explode if heated.
  
  GHS07
  
  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  GHS04  GHS07

- Signal word: Danger

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

- Hazard statements
  Extremely flammable aerosol.

(Contd. on page 2)
Trade name: 325O Metered IMPACT GENAIRE Citrus Grove

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

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

Classification system:

NFPA ratings (scale 0 - 4)

Health = 1
Fire = 4
Reactivity = 1

HMIS-ratings (scale 0 - 4)

HEALTH Health = 1
FIRE Fire = 4
REACTIVITY 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>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td>50-100%</td>
</tr>
<tr>
<td>75-28-5 isobutane</td>
<td>10-25%</td>
</tr>
<tr>
<td>74-98-6 propane</td>
<td>2.5-%&lt;10%</td>
</tr>
<tr>
<td>106-97-8 butane</td>
<td>0.1-%&lt;2.5%</td>
</tr>
<tr>
<td>5989-27-5 (R)-p-mentha-1,8-diene</td>
<td>0.1-%&lt;1%</td>
</tr>
</tbody>
</table>
4 First-aid measures

- **Description of first aid measures**
  - **After inhalation:**
    Supply fresh air and to be sure call for 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:** 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**

<table>
<thead>
<tr>
<th>PAC-1:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>acetone</td>
<td>200 ppm</td>
</tr>
<tr>
<td>75-28-5</td>
<td>isobutane</td>
<td>5500* ppm</td>
</tr>
<tr>
<td>74-98-6</td>
<td>propane</td>
<td>5500* ppm</td>
</tr>
<tr>
<td>106-97-8</td>
<td>butane</td>
<td>5500* ppm</td>
</tr>
<tr>
<td>5989-27-5</td>
<td>(R)-p-mentha-1,8-diene</td>
<td>15 ppm</td>
</tr>
<tr>
<td>110-91-8</td>
<td>morpholine</td>
<td>30 ppm</td>
</tr>
<tr>
<td>142-90-5</td>
<td>dodecyl methacrylate</td>
<td>6.9 ppm</td>
</tr>
<tr>
<td>91-64-5</td>
<td>Coumarin</td>
<td>0.88 mg/m3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-2:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>acetone</td>
<td>3200* ppm</td>
</tr>
<tr>
<td>75-28-5</td>
<td>isobutane</td>
<td>17000** ppm</td>
</tr>
<tr>
<td>74-98-6</td>
<td>propane</td>
<td>17000** ppm</td>
</tr>
</tbody>
</table>
Trade name: 325O Metered IMPACT GENAIRE Citrus Grove

| 106-97-8 | butane  | 17000** ppm |
| 5989-27-5 | (R)-p-mentha-1,8-diene | 67 ppm |
| 110-91-8 | morpholine | 1,300 ppm |
| 142-90-5 | dodecyl methacrylate | 76 ppm |
| 91-64-5 | Coumarin | 9.7 mg/m³ |

· PAC-3:

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

7 Handling and storage

· Handling:
  · Precautions for safe handling: No special precautions are necessary if used correctly.
  · 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.

67-64-1 acetone

| PEL | Long-term value: 2400 mg/m³, 1000 ppm |
| REL | Long-term value: 590 mg/m³, 250 ppm |
| TLV | Short-term value: 1187 mg/m³, 500 ppm |
|     | Long-term value: 594 mg/m³, 250 ppm |
|     | BEI |

75-28-5 isobutane

| TLV | Short-term value: (2370) mg/m³, (10000) ppm |
|     | NIC-EX |
Trade name: 325O Metered IMPACT GENAIRE Citrus Grove

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>PEL Long-term value: 1800 mg/m³, 1000 ppm</th>
<th>REL Long-term value: 1800 mg/m³, 1000 ppm</th>
<th>TLV refer to Appendix F in TLVs &amp; BEIs book; NIC-EX</th>
</tr>
</thead>
<tbody>
<tr>
<td>74-98-6 propane</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>106-97-8 butane</td>
<td>REL Long-term value: 1900 mg/m³, 800 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>67-64-1 acetone</td>
<td>BEI 50 mg/L</td>
<td>Medium: urine</td>
<td>Parameter: Acetone (nonspecific)</td>
</tr>
</tbody>
</table>

Ingredients with biological limit values:

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

- Personal protective equipment:
  - 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.
      Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
      - Material of gloves
        The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
      - Penetration time of glove material
        The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
      - Eye protection:
        Safety glasses

- Breathing equipment: Not required.
9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
- Appearance:
  - Form: Aerosol
  - Color: According to product specification
  - Odor: Characteristic
  - Odor threshold: Not determined.
- pH-value: Not determined.
- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: -44 °C (-47 °F)
- Flash point: < 0 °C (< 32 °F)
- 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.
- Explosion limits:
  - Lower: 1.8 Vol %
  - Upper: 13.0 Vol %
- Vapor pressure at 20 °C (68 °F): 3000 hPa (2250 mm Hg)
- Density: Not determined.
- Relative density: Not determined.
- Vapor density: Not determined.
- Evaporation rate: Not applicable.
- Solubility in / Miscibility with
  - Water: Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- Solvent content:
  - Organic solvents: 84.6 %
  - VOC content:
    - 269.1 g/l / 2.25 lb/gl
- 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.
11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - LD/LC50 values that are relevant for classification:
      - 67-64-1 acetone
        - Oral LD50 5800 mg/kg (rat)
        - Dermal LD50 20000 mg/kg (rabbit)
      - 5989-27-5 (R)-p-mentha-1,8-diene
        - Oral LD50 4400 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.

  - OSHA-Ca (Occupational Safety & Health Administration)
    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

<table>
<thead>
<tr>
<th><strong>UN-Number</strong></th>
<th>UN1950</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DOT, IMDG, IATA</strong></td>
<td><strong>UN proper shipping name</strong></td>
</tr>
<tr>
<td>DOT</td>
<td>Aerosols, flammable</td>
</tr>
<tr>
<td>IMDG</td>
<td>AEROSOLS</td>
</tr>
<tr>
<td>IATA</td>
<td>AEROSOLS, flammable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Transport hazard class(es)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DOT</strong></td>
</tr>
<tr>
<td>Class</td>
</tr>
<tr>
<td>Label</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>IMDG, IATA</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
</tr>
<tr>
<td>Label</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Packing group</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT, IMDG, IATA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Environmental hazards:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine pollutant:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Special precautions for user</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Warning: Gases</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>EMS Number:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>F-D,S-U</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Stowage Code</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>SW1 Protected from sources of heat.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Segregation Code</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow &quot;separated from&quot; 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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Transport/Additional information:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DOT</strong></td>
</tr>
<tr>
<td><strong>Quantity limitations</strong></td>
</tr>
<tr>
<td>On passenger aircraft/rail: 75 kg</td>
</tr>
<tr>
<td>On cargo aircraft only: 150 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>IMDG</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Limited quantities (LQ)</strong></td>
</tr>
<tr>
<td>1L</td>
</tr>
<tr>
<td><strong>Excepted quantities (EQ)</strong></td>
</tr>
<tr>
<td>Code: E0</td>
</tr>
</tbody>
</table>

(Contd. on page 9)
Safety Data Sheet
acc. to OSHA HCS

Trade name: 325O Metered IMPACT GENAIRE Citrus Grove

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 oxydipropanol
    - 5989-27-5 (R)-p-mentha-1,8-diene
    - 78-70-6 Linalool
    - 110-91-8 morpholine
    - 142-90-5 dodecyl methacrylate
    - 5392-40-5 Citral
    - 106-22-9 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:
- Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- Do not pierce or burn, even after use.
- Do not spray on an open flame or other ignition source.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Wear protective gloves / eye protection / face protection.
- Wash thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing must not be allowed out of the workplace.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Specific treatment (see on this label).
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Call a POISON CENTER/doctor if you feel unwell.
- Wash contaminated clothing before reuse.
- If skin irritation or rash occurs: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention.
- IF ON SKIN: Wash with plenty of water.
- 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.
- Store in a well-ventilated place. Keep container tightly closed.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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: 800.333.1541
Date of preparation / last revision: 08/17/2017 / 8

Abbreviations and acronyms:
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- 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

(Contd. on page 11)
Trade name: 325O Metered IMPACT GENAIRE Citrus Grove

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).
Some Organic Solvents, Resin Monomers and Related Compounds, Pigments and Occupational
Exposures in Paint Manufacture and Painting, Lyon, pp. 199–213”

* Data compared to the previous version altered.