1 Identification

- **Product identifier** EAEDC251
- **Trade name**: 325MA Metered IMPACTGENAIRE Tropical Mango
- **Manufacturer article number**: (743)(8)
- **Application of the substance / the mixture**: Air Freshener.
- **Details of the supplier of the safety data sheet**: (743)(8)
- **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](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.
  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

- **Hazard statements**
  - Extremely flammable aerosol.
  - Contains gas under pressure; may explode if heated.
  - Causes serious eye irritation.
  - May cause drowsiness or dizziness.

(Contd. on page 2)
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 eye protection / face protection.
- Wash thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **IF INHALED:** Remove person to fresh air and keep comfortable for breathing.
- Call a POISON CENTER/doctor if you feel unwell.
- If eye irritation persists: Get medical advice/attention.
- 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)**
  
  ![NFPA ratings](image)
  
  Health = 1
  Fire = 4
  Reactivity = 1

- **HMIS-ratings (scale 0 - 4)**
  
  ![HMIS-ratings](image)
  
  Health = 1
  Fire = 4
  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.

<table>
<thead>
<tr>
<th>Dangerous components</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>Fragrance Trade Secret (743)</td>
<td>0.1-%&lt;2.5%</td>
</tr>
</tbody>
</table>

4 First-aid measures

- **Description of first aid measures**
  - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact:** Generally the product does not irritate the skin.
  - **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.
Trade name: 325MA Metered IMPACTGENAIRE Tropical Mango

* 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>ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td></td>
<td>200</td>
</tr>
<tr>
<td>75-28-5 isobutane</td>
<td></td>
<td>5500*</td>
</tr>
<tr>
<td>74-98-6 propane</td>
<td></td>
<td>5500*</td>
</tr>
<tr>
<td>106-97-8 butane</td>
<td></td>
<td>5500*</td>
</tr>
<tr>
<td>110-91-8 morpholine</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>142-90-5 dodecyl methacrylate</td>
<td></td>
<td>6.9 ppm</td>
</tr>
<tr>
<td>5989-27-5 (R)-p-mentha-1,8-diene</td>
<td></td>
<td>15 ppm</td>
</tr>
<tr>
<td>100-51-6 Benzyl alcohol</td>
<td></td>
<td>30 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-2:</th>
<th></th>
<th>ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td></td>
<td>3200*</td>
</tr>
<tr>
<td>75-28-5 isobutane</td>
<td></td>
<td>17000**</td>
</tr>
<tr>
<td>74-98-6 propane</td>
<td></td>
<td>17000**</td>
</tr>
<tr>
<td>106-97-8 butane</td>
<td></td>
<td>17000**</td>
</tr>
<tr>
<td>110-91-8 morpholine</td>
<td></td>
<td>1,300</td>
</tr>
<tr>
<td>142-90-5 dodecyl methacrylate</td>
<td></td>
<td>76 ppm</td>
</tr>
<tr>
<td>5989-27-5 (R)-p-mentha-1,8-diene</td>
<td></td>
<td>67 ppm</td>
</tr>
<tr>
<td>100-51-6 Benzyl alcohol</td>
<td></td>
<td>52 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-3:</th>
<th></th>
<th>ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td></td>
<td>5700*</td>
</tr>
<tr>
<td>75-28-5 isobutane</td>
<td></td>
<td>53000***</td>
</tr>
<tr>
<td>74-98-6 propane</td>
<td></td>
<td>33000***</td>
</tr>
<tr>
<td>106-97-8 butane</td>
<td></td>
<td>53000***</td>
</tr>
<tr>
<td>110-91-8 morpholine</td>
<td></td>
<td>8000***</td>
</tr>
</tbody>
</table>
Trade name: 325MA Metered IMPACTGENAIRÉ Tropical Mango

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 remaining constituent has no known exposure limits.

<table>
<thead>
<tr>
<th>67-64-1 acetone</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL Long-term value: 2400 mg/m³, 1000 ppm</td>
<td></td>
</tr>
<tr>
<td>REL Long-term value: 590 mg/m³, 250 ppm</td>
<td></td>
</tr>
<tr>
<td>TLV Short-term value: 1187 mg/m³, 500 ppm</td>
<td></td>
</tr>
<tr>
<td>BEI Long-term value: 594 mg/m³, 250 ppm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>75-28-5 isobutane</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TLV Short-term value: (2370) mg/m³, (1000) ppm</td>
<td></td>
</tr>
<tr>
<td>NIC-EX</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>74-98-6 propane</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL Long-term value: 1800 mg/m³, 1000 ppm</td>
<td></td>
</tr>
<tr>
<td>REL Long-term value: 1800 mg/m³, 1000 ppm</td>
<td></td>
</tr>
<tr>
<td>TLV refer to Appendix F in TLVs &amp; BEIs book; NIC-EX</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>106-97-8 butane</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>REL Long-term value: 1900 mg/m³, 800 ppm</td>
<td></td>
</tr>
<tr>
<td>TLV Short-term value: (2370) mg/m³, (1000) ppm</td>
<td></td>
</tr>
<tr>
<td>NIC-EX</td>
<td></td>
</tr>
</tbody>
</table>
Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Substance</th>
<th>BEI</th>
<th>Medium</th>
<th>Time</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td>50 mg/L</td>
<td>urine</td>
<td>end of shift</td>
<td>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: Not required.

Protection of hands:
The glove material has to be impermeable and resistant to the product/ 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

Tightly sealed goggles

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.
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 5800 mg/kg (rat)
      - Dermal LD50 20000 mg/kg (rabbit)
- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
44.0

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)
  - 110-91-8 morpholine 3
  - 5989-27-5 (R)-p-mentha-1,8-diene 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

- UN-Number
  DOR, IMDG, IATA UN1950

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

- Transport hazard class(es)
  - DOT
    - Class 2.1
Trade name: 325MA Metered IMPACTGENAIRE Tropical Mango

- **Label** 2.1
- **IMDG, IATA**
- **Class** 2.1
- **Label** 2.1
- **Packing group**
- **DOT, IMDG, IATA** not regulated
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Warning: Gases
- **Danger code (Kemler):** -
- **EMS Number:** F-D,S-U
- **Stowage Code**
  - **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

### 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
- 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

- Hazard statements
  Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. 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 eye protection / face protection. Wash thoroughly after handling.

(Contd. on page 10)
Use only outdoors or in a well-ventilated area.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
If eye irritation persists: Get medical advice/attention.
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.

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: 800.333.1541
• Date of preparation / last revision 08/17/2017 / 7

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
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
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Sources
Additional Information Section 11 and Section 15
* Data compared to the previous version altered.