# Safety Data Sheet

**acc. to OSHA HCS**

*Printing date 08/17/2017*  
*Reviewed on 08/17/2017*

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## 1 Identification

- **Product identifier** 325M  
- **Trade name:** 325M Metered IMPACT GENAIRE Mulberry Mist  
- **Manufacturer article number:** EAEDC245  
- **Application of the substance / the mixture** Air Freshener  
- **Details of the supplier of the safety data sheet** (768)/44  
- **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)

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## 2 Hazard(s) identification

- **Classification of the substance or mixture**
  
  - GHS02 Flame
  
  Flm. Aerosol 2  
  H223 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** Warning

- **Hazard-determining components of labeling:**
  
  - acetone
  - Geraniol
  - Eugenol
  - dipentene
  - Cinnamyl alcohol

(Contd. on page 2)
Hazard statements
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.

Classification system:
NFPA ratings (scale 0 - 4)
Health = 1
Fire = 4
Reactivity = 1

HMIS-ratings (scale 0 - 4)
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.

Dangerous components:
67-64-1 acetone 50-100%
75-28-5 isobutane 10-25%
74-98-6 propane 2.5-<10%
Fragrance Trade Secret (768) 2.5-<10%
106-97-8 butane 0.1-<2.5%
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:
    Use fire-extinguishing media appropriate for surrounding materials. Foam. Dry powder. Carbon dioxide.
    Water spray. Sand.
  - 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
  - PAC-1:
    - 67-64-1 acetone 200 ppm
    - 75-28-5 isobutane 5500* ppm
    - 74-98-6 propane 5500* ppm
    - 106-97-8 butane 5500* ppm
    - 110-91-8 morpholine 30 ppm
    - 91-64-5 Coumarin 0.88 mg/m3
    - 120-51-4 Benzyl benzoate 5.7 mg/m3
    - 100-51-6 Benzyl alcohol 30 ppm
  - PAC-2:
    - 67-64-1 acetone 3200* ppm
    - 75-28-5 isobutane 17000** ppm
Trade name: 325M Metered IMPACT GENAIRE Mulberry Mist

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<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>110-91-8 morpholine</td>
<td>1300 ppm</td>
</tr>
<tr>
<td>91-64-5 Coumarin</td>
<td>9.7 mg/m³</td>
</tr>
<tr>
<td>120-51-4 Benzyl benzoate</td>
<td>63 mg/m³</td>
</tr>
<tr>
<td>100-51-6 Benzyl alcohol</td>
<td>52 ppm</td>
</tr>
<tr>
<td>PAC-3:</td>
<td></td>
</tr>
<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>110-91-8 morpholine</td>
<td>8000*** ppm</td>
</tr>
<tr>
<td>91-64-5 Coumarin</td>
<td>58 mg/m³</td>
</tr>
<tr>
<td>120-51-4 Benzyl benzoate</td>
<td>380 mg/m³</td>
</tr>
<tr>
<td>100-51-6 Benzyl alcohol</td>
<td>740 ppm</td>
</tr>
</tbody>
</table>

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

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

75-28-5 isobutane

<table>
<thead>
<tr>
<th>Limit Value</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLV Short-term value</td>
<td>(2370) mg/m³, (1000) ppm</td>
</tr>
<tr>
<td>NIC-EX</td>
<td></td>
</tr>
<tr>
<td>Ingredient</td>
<td>PEL</td>
</tr>
<tr>
<td>------------</td>
<td>-----</td>
</tr>
<tr>
<td>74-98-6 propane</td>
<td>Long-term value: 1800 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td>106-97-8 butane</td>
<td>REL Long-term value: 1900 mg/m³, 800 ppm</td>
</tr>
</tbody>
</table>

### Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Ingredient</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>

### Exposure controls

**Personal protective equipment:**

<table>
<thead>
<tr>
<th>General protective and hygienic measures:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keep away from foodstuffs, beverages and feed.</td>
</tr>
<tr>
<td>Immediately remove all soiled and contaminated clothing.</td>
</tr>
<tr>
<td>Wash hands before breaks and at the end of work.</td>
</tr>
<tr>
<td>Avoid contact with the eyes.</td>
</tr>
<tr>
<td>Avoid contact with the eyes and skin.</td>
</tr>
</tbody>
</table>

**Breathing equipment:** Not required.

**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

- **Tightly sealed goggles**

(Contd. on page 6)
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: 77.5 %
  - VOC content: 28.5 %
    - 285.4 g/l / 2.38 lb/gl
- Solids content: 3.7 %
- 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:**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td>5800 mg/kg (rat)</td>
<td>20000 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

- 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)
    - 97-53-0 Eugenol 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>UN-Number DOT, IMDG, IATA</th>
<th>UN1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name 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>

#### Transport hazard class(es)

<table>
<thead>
<tr>
<th>DOT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Class</strong></td>
</tr>
<tr>
<td><strong>Label</strong></td>
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<tr>
<td><strong>Label</strong></td>
</tr>
</tbody>
</table>

- **Packing group**
  - DOT, IMDG, IATA: not regulated
- **Environmental hazards:**
  - Marine pollutant: No

- **Special precautions for user**
  - Warning: Gases
  - EMS Number: F-D-S-U

- **Stowage Code**
  - SW1 Protected from sources of heat.
  - 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.

- **Segregation Code**
  - 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.

- **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

(Contd. on page 9)
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
    - 25265-71-8 oxydipropanol
    - 106-97-8 butane
    - 106-24-1 Geraniol
    - 97-53-0 Eugenol
    - 138-86-3 dipentene
    - 104-54-1 Cinnamyl alcohol
    - 110-91-8 morpholine
    - 91-64-5 Coumarin
    - 106-22-9 Citronellol
    - 104-55-2 Cinnamal
    - 120-51-4 Benzyl benzoate
    - 5392-40-5 Citral
    - 100-51-6 Benzyl alcohol
    - 78-70-6 Linalool

- 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 Warning

Hazard-determining components of labeling:
- acetone
- Geraniol
- Eugenol
- dipentene
- Cinnamyl alcohol

Hazard statements
- 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.

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 / 3

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
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, Eugenol and Coumarin are not classifiable as to its carcinogenicity to humans (Group 3).


* Data compared to the previous version altered.