1 Identification

- Product identifier 325A
- Trade name: 325A Metered IMPACT GENAIRE Apple Zing
- Manufacturer article number: EAEDC246
- Application of the substance / the mixture Air Freshener
- Details of the supplier of the safety data sheet (826)(190)
  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.
  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

  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.
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.

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:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</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>Fragance Trade secret (826)</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: 325A Metered IMPACT GENAIRE Apple Zing

- 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>Component</th>
<th>Concentration</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>142-90-5</td>
<td>dodecyl methacrylate</td>
<td>6.9 ppm</td>
</tr>
<tr>
<td>110-91-8</td>
<td>morpholine</td>
<td>30 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-2</th>
<th>Component</th>
<th>Concentration</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>
<tr>
<td>106-97-8</td>
<td>butane</td>
<td>17000** ppm</td>
</tr>
<tr>
<td>142-90-5</td>
<td>dodecyl methacrylate</td>
<td>76 ppm</td>
</tr>
<tr>
<td>110-91-8</td>
<td>morpholine</td>
<td>1,300 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-3</th>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>acetone</td>
<td>5700* ppm</td>
</tr>
<tr>
<td>75-28-5</td>
<td>isobutane</td>
<td>53000*** ppm</td>
</tr>
<tr>
<td>74-98-6</td>
<td>propane</td>
<td>33000*** ppm</td>
</tr>
<tr>
<td>106-97-8</td>
<td>butane</td>
<td>53000*** ppm</td>
</tr>
<tr>
<td>142-90-5</td>
<td>dodecyl methacrylate</td>
<td>460 ppm</td>
</tr>
<tr>
<td>110-91-8</td>
<td>morpholine</td>
<td>8000** 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
- Requirements to be met by storerooms and receptacles:
  - Storage:
    - 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>Ingredient</th>
<th>PEL Long-term value</th>
<th>REL Long-term value</th>
<th>TLV Short-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td>2400 mg/m³, 1000 ppm</td>
<td>590 mg/m³, 250 ppm</td>
<td>1187 mg/m³, 500 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>594 mg/m³, 250 ppm</td>
</tr>
<tr>
<td></td>
<td>BEI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>75-28-5 isobutane</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>74-98-6 propane</td>
<td>1800 mg/m³, 1000 ppm</td>
<td>1800 mg/m³, 1000 ppm</td>
<td></td>
</tr>
<tr>
<td>106-97-8 butane</td>
<td>1900 mg/m³, 800 ppm</td>
<td></td>
<td></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>

- Additional information: The lists that were valid during the creation were used as basis.
Trade name: 325A Metered IMPACT GENAIRE Apple Zing

- **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/ 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 break through 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

* **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:** 83.8 %
- **VOC content:** 26.0 %
  - 260.5 g/l / 2.17 lb/gl

### Solids content:
- 0.9 %

### 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: LD$_{50}$ 5800 mg/kg (rat)
        - Dermal: LD$_{50}$ 20000 mg/kg (rabbit)
  - **Primary irritant effect:**
    - **on the skin:** No irritant effect.
    - **on the eye:** Irritating effect.
  - **Sensitization:** No sensitizing effects known.
  - **Additional toxicological information:**
    - The product shows the following dangers according to internally approved calculation methods for preparations:
      - Irritant

(Contd. on page 7)
Trade name: 325A Metered IMPACT GENAIRE Apple Zing

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 Aerosols, flammable
  - IMDG AEROSOLS
  - IATA AEROSOLS, flammable

- Transport hazard class(es)
  - DOT
    - Class 2.1
    - Label 2.1
  - IMDG, IATA
    - Class 2.1
    - Label 2.1
<table>
<thead>
<tr>
<th><strong>Packing group</strong></th>
<th>not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DOT, IMDG, IATA</strong></td>
<td>DOT, IMDG, IATA</td>
</tr>
</tbody>
</table>

**Environmental hazards:**

- Not applicable.

**Special precautions for user**

- Warning: Gases
- 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

**UN "Model Regulation":**

- UN 1950 AEROSOLS, 2.1

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### 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
- 142-90-5 dodecyl methacrylate
- 110-91-8 morpholine
- 106-22-9 Citronellol
- 5392-40-5 Citral
- 127-51-5 Traideine gamma

(Contd. on page 9)
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.
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 50ºC/122ºF.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local / regional / national / international regulations.

(Contd. on page 10)
44.0 ·

16.0 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 / 4

**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

* Data compared to the previous version altered.*