

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/02/2018

Reviewed on 11/02/2018

## 1 Identification

- **Product identifier** EAEDC326
- **Trade name:** Metered Air Freshener BRADY Mango
- **Manufacturer article number:** EAEDC326
- **Application of the substance / the mixture** Air Freshener.
- **Details of the supplier of the safety data sheet** (743)(8)
- **Manufacturer/Supplier:**  
Brady Industries  
7055 Lindell Road  
Las Vegas, NV 89118  
800.293.4698  
www.bradylindustries.com  
FAX: +52 33 36880850
- **Information department:** Product Safety Department
- **Emergency telephone number:** 800.293.4698

## 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.

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Trade name: **Metered Air Freshener BRADY Mango**

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### · **Precautionary statements**

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.

Wear eye protection / face protection.

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.

If eye irritation persists: Get medical advice/attention.

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

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%
106-97-8	butane	≥0.1-≤2.5%
	Fragrance Trade Secret (743)	≥0.1-≤2.5%

## \* 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.

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- **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
142-90-5	dodecyl methacrylate	6.9 ppm
5989-27-5	(R)-p-mentha-1,8-diene	15 ppm
100-51-6	Benzyl alcohol	30 ppm

### · PAC-2:

67-64-1	acetone	3200* ppm
75-28-5	isobutane	17000** ppm
74-98-6	propane	17000** ppm
106-97-8	butane	17000** ppm
110-91-8	morpholine	1,300 ppm
142-90-5	dodecyl methacrylate	76 ppm
5989-27-5	(R)-p-mentha-1,8-diene	67 ppm
100-51-6	Benzyl alcohol	52 ppm

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· **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
110-91-8	morpholine	8000** ppm
142-90-5	dodecyl methacrylate	460 ppm
5989-27-5	(R)-p-mentha-1,8-diene	170 ppm
100-51-6	Benzyl alcohol	740 ppm

## 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.

**67-64-1 acetone**PEL Long-term value: 2400 mg/m<sup>3</sup>, 1000 ppmREL Long-term value: 590 mg/m<sup>3</sup>, 250 ppmTLV Short-term value: 1187 mg/m<sup>3</sup>, 500 ppmLong-term value: 594 mg/m<sup>3</sup>, 250 ppm

BEI

**75-28-5 isobutane**TLV Short-term value: 2370 mg/m<sup>3</sup>, 1000 ppm  
(EX)**74-98-6 propane**PEL Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm

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REL	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
TLV	refer to Appendix F in TLVs&BEIs book; D, EX
<b>106-97-8 butane</b>	
REL	Long-term value: 1900 mg/m <sup>3</sup> , 800 ppm
TLV	Short-term value: 2370 mg/m <sup>3</sup> , 1000 ppm (EX)
<b>Ingredients with biological limit values:</b>	
<b>67-64-1 acetone</b>	
BEI	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)

· **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/ 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

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Aerosol

Color: According to product specification

· **Odor:** Characteristic

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· <b>Odor threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	-44 °C (-47.2 °F)
· <b>Flash point:</b>	< 0 °C (<32 °F)
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Ignition temperature:</b>	460 °C (860 °F)
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	1.8 Vol %
<b>Upper:</b>	13 Vol %
· <b>Vapor pressure at 20 °C (68 °F):</b>	3,000 hPa (2,250.2 mm Hg)
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	83.8 %
<b>VOC content:</b>	26.10 %
	261.0 g/l / 2.18 lb/gal
<b>Solids content:</b>	3.4 %
· <b>Other information</b>	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.

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## 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 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

- **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**

- **DOT, IMDG, IATA**

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· **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

· **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** 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 MARPOL 73/78 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

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· 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

74-98-6 propane

106-97-8 butane

25265-71-8 Dipropylene glycol (isomer unspecified)

110-91-8 morpholine

142-90-5 dodecyl methacrylate

5989-27-5 (R)-p-mentha-1,8-diene

100-51-6 Benzyl alcohol

78-70-6 Linalool

5392-40-5 Citral

- TSCA new (21st Century Act) (Substances not listed)

Fragrance Trade Secret (743)

- 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).

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· **Hazard pictograms**· **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 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.**Wear eye protection / face protection.**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.**If eye irritation persists: Get medical advice/attention.**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:** *800.293.4698*· **Date of preparation / last revision** *11/02/2018 / 10*· **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)*

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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 &amp; 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

“According to IARC Morpholine is not classifiable as to its carcinogenicity to humans (Group 3).

IARC (1989) IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Vol. 47,

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.**

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