

**1 Identification**

Product Name: F-MATIC Vanilla Embrace 9,000 Metered Spray

Application of the substance / the mixture Air Freshener.

Manufacturer/Supplier:

F-Matic  
299 South Millpond Rd.  
Lehi, UT 84043  
(801) 768-2000

Information department: Product safety department

Emergency telephone number: (800) 824-9994

**2 Hazard(s) identification**

Classification of the substance or mixture



Flam. Aerosol 1 H222 Extremely flammable aerosol.



Press. Gas H280 Contains gas under pressure; may explode if heated.



Eye Irrit. 2A H319 Causes serious eye irritation.  
STOTSE 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



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

If medical advice is needed, have product container or label at hand.

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Keep out of reach of children.

Read label before use.

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	≤2.5%
	Fragrance Trade Secret (789)	≤2.5%

### 4 First-aid measures

Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

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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.  
 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:  
 Dispose contaminated material as waste according to item 13.  
 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
142-90-5	dodecyl methacrylate	6.9 ppm
110-91-8	morpholine	30 ppm
120-51-4	Benzyl benzoate	5.7 mg/m <sup>3</sup>
91-64-5	Coumarin	0.88 mg/m <sup>3</sup>
100-51-6	Benzyl alcohol	30 ppm
105-13-5	Anisyl alcohol	2.2 mg/m <sup>3</sup>
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

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142-90-5	dodecyl methacrylate	76ppm
110-91-8	morpholine	1,300ppm
120-51-4	Benzyl benzoate	63 mg/m <sup>3</sup>
91-64-5	Coumarin	9.7 mg/m <sup>3</sup>
100-51-6	Benzyl alcohol	52ppm
105-13-5	Anisyl alcohol	25 mg/m <sup>3</sup>
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
142-90-5	dodecyl methacrylate	460ppm
110-91-8	morpholine	8000** ppm
120-51-4	Benzyl benzoate	380 mg/m <sup>3</sup>
91-64-5	Coumarin	58 mg/m <sup>3</sup>
100-51-6	Benzyl alcohol	740ppm
105-13-5	Anisyl alcohol	260 mg/m <sup>3</sup>

**7 Handling and storage****Handling:**

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

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
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PEL	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm
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REL	Long-term value: 590 mg/m <sup>3</sup> , 250 ppm
TL	Short-term value: 1187 mg/m <sup>3</sup> , 500 ppm
V	Long-term value: 594 mg/m <sup>3</sup> , 250 ppm
	BEI
75-28-5 isobutane	
TL	Short-term value: 2370 mg/m <sup>3</sup> , 1000 ppm
V	(EX)
74-98-6 propane	
PEL	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
TL	refer to Appendix F in TLVs & BEIs book; D, EX
106-97-8 butane	
REL	Long-term value: 1900 mg/m <sup>3</sup> , 800 ppm
TL	Short-term value: 2370 mg/m <sup>3</sup> , 1000 ppm
V	(EX)
Ingredients with biological limit values:	
67-64-1 acetone	
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:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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 break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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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:	-94.7 °C (-138.5 °F)
Boiling point/Boiling range:	-44 °C (-47.2 °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 Vol %
Vapor pressure at 20 °C (68 °F):	3,000 hPa (2,250.2 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 %

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VOC content:	26.06 % 260.6 g/l /2.18 lb/gal
Solids content:	3.8 %
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	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
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.

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·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 ·IMDG ·IATA	Aerosols, flammable AEROSOLS AEROSOLS, flammable
·Transport hazard class(es) ·DOT	
	
·Class ·Label	2.1 2.1
·IMDG, IATA	
	
·Class ·Label	2.1 2.1
·Packing group ·DOT, IMDG, IATA	not regulated
·Environmental hazards: ·Marine pollutant:	No
·Special precautions for user ·Danger code (Kemler): ·EMS Number: ·Stowage Code	Warning: Gases - F-D,S-U 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. 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
·Segregation Code	

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	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

### 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)
142-90-5	dodecyl methacrylate
110-91-8	morpholine
120-51-4	Benzyl benzoate
91-64-5	Coumarin
100-51-6	Benzyl alcohol
105-13-5	Anisyl alcohol
118-58-1	benzylsalicylate
78-70-6	Linalool
TSCA new (21st Century Act) (Substances not listed)	Fragrance Trade Secret (789)
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.

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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

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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

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

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.

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

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**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.

Date of preparation / last revision 06/04/2019 / 12

## Abbreviations and acronyms:

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

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

\*Data compared to the previous version altered.

US