

1 Identification

Product name: F - M A T I C Mango 9,000 Metered Spray

Application of the substance /the mixture Air Freshener.

Manufacturer/Supplier:

F-Matic
299 South Millpond Rd.
Lehi, UT 84043

Information department: Product safety department

Emergency telephone number: (800) 824-9994

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.

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



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.

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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 (743)	≤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	200ppm
75-28-5	isobutane	5500*ppm
74-98-6	propane	5500*ppm
106-97-8	butane	5500*ppm
110-91-8	morpholine	30ppm
142-90-5	dodecyl methacrylate	6.9ppm
5989-27-5	(R)-p-mentha-1,8-diene	15ppm
100-51-6	Benzyl alcohol	30ppm

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	1,300ppm
142-90-5	dodecyl methacrylate	76ppm

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5989-27-5	(R)-p-mentha-1,8-diene	67 ppm
100-51-6	Benzyl alcohol	52ppm
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	460ppm
5989-27-5	(R)-p-mentha-1,8-diene	170ppm
100-51-6	Benzyl alcohol	740ppm

* **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	
PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: 1187 mg/m ³ , 500 ppm
	Long-term value: 594 mg/m ³ , 250 ppm
	BEI
75-28-5 isobutane	
TLV	Short-term value: 2370 mg/m ³ , 1000 ppm
	(EX)

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74-98-6 propane	
PEL	Long-term value: 1800 mg/m ³ , 1000 ppm
REL	Long-term value: 1800 mg/m ³ , 1000 ppm
TL	refer to Appendix F in TLVs&BEIs book; D, EX
106-97-8 butane	
REL	Long-term value: 1900 mg/m ³ , 800 ppm
TL	Short-term value: 2370 mg/m ³ , 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.

Eye protection:

Safety glasses

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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 (-47.2 °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 %
 VOC content: 26.10 %
 261.0 g/l /2.18 lb/gal

Solids content: 3.4 %

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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

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.

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·Other adverse effects No further relevant information available.

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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

·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

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.

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·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)	IL
·Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
·UN "Model Regulation":	UN1950 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.	

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·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

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.

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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.

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

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.

US