

# SAFETY DATA SHEET

Version #: 03  
Issue date: 21-April-2023  
Revision date: 19-October-2023  
Supersedes date: 09-September-2023

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name or designation of the mixture** MF WHITE PAPER FLOWERS 100ML REED DIFFUSER 7MDWF

**Registration number** -

**Synonyms** None.

**Product code** 7MDWF

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Air Care Products

**Uses advised against** None known.

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

**Company name** Home Fragrance Italia S.r.L.

**Address** Via del Commercio 28  
Bernareggio (MB)  
20881  
IT

#### Division

#### Telephone

**e-mail** Not available.

**Contact person** Not available.

### 1.4. Emergency telephone number

#### 1.4. Emergency telephone number

**General in EU** 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Austria National Poisons Information Centre** +431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Belgium National Poisons Control Centre** 070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Bulgaria National Toxicological Information Centre** +359 2 9154233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Czech Republic National Poisons Information Centre** +420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

**Denmark National Poisons Control Centre** +45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Estonia National Poisons Information Centre** 16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)

**Finland National Poison Information Centre** (09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**France National Poisons Control Centre** ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Hungary National Emergency Phone Number** 36 80 20 11 99 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Lithuania Neatidėliotina informacija apsinuodijus** +370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

#### 1.4. Emergency telephone number

<b>Malta Accident and Emergency Department</b>	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
<b>Netherlands National Poisons Information Centre (NVIC)</b>	030-274 88 88 (Only for the purpose of informing medical personnel in cases of acute intoxications)
<b>Norway Norwegian Poison Information Centre</b>	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Portugal Poison Centre</b>	800 250 250 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Romania Biroul RSI si Informare Toxicologica</b>	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
<b>Slovakia National Toxicological Information Centre</b>	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Sweden National Poison Information Centre</b>	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Switzerland Tox Info Suisse</b>	145 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Physical hazards

Flammable liquids	Category 2	H225 - Highly flammable liquid and vapour.
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##### Health hazards

Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
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Skin sensitisation	Category 1B	H317 - May cause an allergic skin reaction.
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##### Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
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### 2.2. Label elements

## Label according to Regulation (EC) No. 1272/2008 as amended

### UFI:

Austria: APQN-2XE1-EJM1-C2PU  
Belgium: APQN-2XE1-EJM1-C2PU  
Bulgaria: APQN-2XE1-EJM1-C2PU  
Croatia: APQN-2XE1-EJM1-C2PU  
Cyprus: APQN-2XE1-EJM1-C2PU  
Czech Republic: APQN-2XE1-EJM1-C2PU  
Denmark: APQN-2XE1-EJM1-C2PU  
Estonia: APQN-2XE1-EJM1-C2PU  
EU: APQN-2XE1-EJM1-C2PU  
Finland: APQN-2XE1-EJM1-C2PU  
France: APQN-2XE1-EJM1-C2PU  
Germany: APQN-2XE1-EJM1-C2PU  
Great Britain: APQN-2XE1-EJM1-C2PU  
Greece: APQN-2XE1-EJM1-C2PU  
Hungary: APQN-2XE1-EJM1-C2PU  
Iceland: APQN-2XE1-EJM1-C2PU  
Ireland: APQN-2XE1-EJM1-C2PU  
Italy: APQN-2XE1-EJM1-C2PU  
Latvia: APQN-2XE1-EJM1-C2PU  
Lithuania: APQN-2XE1-EJM1-C2PU  
Luxembourg: APQN-2XE1-EJM1-C2PU  
Malta: APQN-2XE1-EJM1-C2PU  
Netherlands: APQN-2XE1-EJM1-C2PU  
Norway: APQN-2XE1-EJM1-C2PU  
Poland: APQN-2XE1-EJM1-C2PU  
Portugal: APQN-2XE1-EJM1-C2PU  
Romania: APQN-2XE1-EJM1-C2PU  
Slovakia: APQN-2XE1-EJM1-C2PU  
Slovenia: APQN-2XE1-EJM1-C2PU  
Spain: APQN-2XE1-EJM1-C2PU  
Sweden: APQN-2XE1-EJM1-C2PU

### Contains:

1,6-Nonadien-3-ol, 3,7-dimethyl-, Coumarin, d-Limonene, Geraniol, Hexyl Cinnamal, Linalool, Linalyl acetate, Oils, cardamom, Oils, peppermint

### Hazard pictograms



### Signal word

Danger

### Hazard statements

H225 Highly flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P302 + P350 If on skin: Wash with plenty of water/.

#### Storage

Not applicable.

#### Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Supplemental label information

None.

### 2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

## General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Ethanol	70 - 80	64-17-5 200-578-6	-	603-002-00-5	
<b>Classification:</b> Flam. Liq. 2;H225, Eye Irrit. 2;H319					
Linalyl acetate	3 - 5	115-95-7 204-116-4	-	-	
<b>Classification:</b> Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317					
1,6-Nonadien-3-ol, 3,7-dimethyl-	1 - 3	10339-55-6 233-732-6	-	-	
<b>Classification:</b> Eye Irrit. 2;H319, Skin Sens. 1B;H317					
beta-Ionone	1 - 3	14901-07-6 238-969-9	-	-	
<b>Classification:</b> Aquatic Chronic 2;H411					
d-Limonene	1 - 3	5989-27-5 227-813-5	-	601-096-00-2	
<b>Classification:</b> Flam. Liq. 3;H226, Skin Irrit. 2;H315, Skin Sens. 1B;H317, Asp. Tox. 1;H304, Aquatic Acute 1;H400(M=1), Aquatic Chronic 3;H412					
Hexyl Cinnamal	1 - 3	101-86-0 202-983-3	01-2119533092-50	-	
<b>Classification:</b> Skin Sens. 1B;H317, Aquatic Acute 1;H400(M=1), Aquatic Chronic 2;H411					
Linalool	1 - 3	78-70-6 201-134-4	01-2119474016-42	603-235-00-2	
<b>Classification:</b> Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1B;H317					
Coumarin	≤ 0,3	91-64-5 202-086-7	01-2119949300-45	-	
<b>Classification:</b> Acute Tox. 3;H301;(ATE: 100 mg/kg bw), Skin Sens. 1B;H317					
Oils, cardamom	≤ 0,3	8000-66-6 616-779-0	-	-	
<b>Classification:</b> Flam. Liq. 3;H226, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
Oils, peppermint	≤ 0,3	8006-90-4 616-900-7	-	-	
<b>Classification:</b> Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317, Asp. Tox. 1;H304, Aquatic Chronic 3;H412					
Geraniol	≤ 0,2	106-24-1 203-377-1	01-2119552430-49	603-241-00-5	
<b>Classification:</b> Skin Irrit. 2;H315, Eye Dam. 1;H318, Skin Sens. 1;H317					
Other components below reportable levels	13.06				

## List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. #: This substance has been assigned Union workplace exposure limit(s).

## Composition comments

The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

### General information

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### 4.1. Description of first aid measures

#### Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

#### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

#### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

#### Ingestion

Rinse mouth. Get medical attention if symptoms occur.

<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. May cause an allergic skin reaction. Dermatitis. Rash.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

<b>General fire hazards</b>	Highly flammable liquid and vapour.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2. Special hazards arising from the substance or mixture</b>	Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Special fire fighting procedures</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
<b>For emergency responders</b>	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Avoid breathing mist/vapours. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
<b>6.2. Environmental precautions</b>	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
<b>6.3. Methods and material for containment and cleaning up</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent entry into waterways, sewer, basements or confined areas.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.  Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original containers for re-use.
<b>6.4. Reference to other sections</b>	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).
<b>7.3. Specific end use(s)</b>	Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value
Ethanol (CAS 64-17-5)	Ceiling	3800 mg/m3
		2000 ppm
	MAK	1900 mg/m3
		1000 ppm

##### Belgium. Exposure Limit Values

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1907 mg/m3
		1000 ppm

##### Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1000 mg/m3

##### Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Type	Value
Ethanol (CAS 64-17-5)	MAC	1900 mg/m3
		1000 ppm

##### Czech Republic. OELs. Government Decree 361

Components	Type	Value
Ethanol (CAS 64-17-5)	Ceiling	3000 mg/m3
	TWA	1000 mg/m3

##### Denmark. Exposure Limit Values

Components	Type	Value
d-Limonene (CAS 5989-27-5)	TLV	25 ppm
Ethanol (CAS 64-17-5)	TLV	1900 mg/m3
		1000 ppm
Oils, peppermint (CAS 8006-90-4)	TLV	25 ppm

##### Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1900 mg/m3
		1000 ppm
	TWA	1000 mg/m3
		500 ppm
Oils, peppermint (CAS 8006-90-4)	STEL	300 mg/m3
		50 ppm
	TWA	150 mg/m3
		25 ppm

##### Finland. Workplace Exposure Limits

Components	Type	Value
d-Limonene (CAS 5989-27-5)	STEL	280 mg/m3
		50 ppm
	TWA	140 mg/m3
		25 ppm
Ethanol (CAS 64-17-5)	STEL	2500 mg/m3
		1300 ppm

**Finland. Workplace Exposure Limits**

Components	Type	Value
	TWA	1900 mg/m <sup>3</sup> 1000 ppm

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
Ethanol (CAS 64-17-5)	VLE	9500 mg/m <sup>3</sup> 5000 ppm
<b>Regulatory status:</b> Indicative limit (VL)		
	VME	1900 mg/m <sup>3</sup> 1000 ppm
<b>Regulatory status:</b> Indicative limit (VL)		
<b>Regulatory status:</b> Indicative limit (VL)		

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value
d-Limonene (CAS 5989-27-5)	TWA	28 mg/m <sup>3</sup> 5 ppm
Ethanol (CAS 64-17-5)	TWA	380 mg/m <sup>3</sup> 200 ppm

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value
d-Limonene (CAS 5989-27-5)	AGW	28 mg/m <sup>3</sup> 5 ppm
Ethanol (CAS 64-17-5)	AGW	380 mg/m <sup>3</sup> 200 ppm

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m <sup>3</sup> 1000 ppm

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	3800 mg/m <sup>3</sup>
	TWA	1900 mg/m <sup>3</sup>

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m <sup>3</sup> 1000 ppm

**Ireland. Occupational Exposure Limits**

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm

**Italy. Occupational Exposure Limits**

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1000 mg/m <sup>3</sup>

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1900 mg/m <sup>3</sup> 1000 ppm
	TWA	1000 mg/m <sup>3</sup> 500 ppm
Oils, peppermint (CAS 8006-90-4)	STEL	300 mg/m <sup>3</sup> 50 ppm
	TWA	150 mg/m <sup>3</sup> 25 ppm

**Netherlands. OELs (binding)**

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1900 mg/m <sup>3</sup>
	TWA	260 mg/m <sup>3</sup>

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value
d-Limonene (CAS 5989-27-5)	TLV	140 mg/m <sup>3</sup> 25 ppm
Ethanol (CAS 64-17-5)	TLV	950 mg/m <sup>3</sup> 500 ppm

**Poland. Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m <sup>3</sup>

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1000 ppm

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	9500 mg/m <sup>3</sup> 5000 ppm
	TWA	1900 mg/m <sup>3</sup> 1000 ppm

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1920 mg/m <sup>3</sup> 1000 ppm
	TWA	960 mg/m <sup>3</sup> 500 ppm

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value
d-Limonene (CAS 5989-27-5)	TWA	28 mg/m <sup>3</sup> 5 ppm
		Ethanol (CAS 64-17-5)

**Spain. Occupational Exposure Limits**

Components	Type	Value
d-Limonene (CAS 5989-27-5)	TWA	168 mg/m <sup>3</sup>



**Spain. Occupational Exposure Limits Components**

Type	Value
	30 ppm
Ethanol (CAS 64-17-5)	1910 mg/m3
	1000 ppm

**Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7) Components**

Type	Value
Ethanol (CAS 64-17-5)	1900 mg/m3
	1000 ppm
	1000 mg/m3
	500 ppm
Oils, peppermint (CAS 8006-90-4)	300 mg/m3
	50 ppm
	150 mg/m3
	25 ppm

**Switzerland. SUVA Grenzwerte am Arbeitsplatz Components**

Type	Value
d-Limonene (CAS 5989-27-5)	80 mg/m3
	14 ppm
	40 mg/m3
	7 ppm
Ethanol (CAS 64-17-5)	1920 mg/m3
	1000 ppm
	960 mg/m3
	500 ppm

**UK. EH40 Workplace Exposure Limits (WELs) Components**

Type	Value
Ethanol (CAS 64-17-5)	1920 mg/m3
	1000 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**Exposure guidelines****Germany DFG MAK (advisory): Skin designation**

d-Limonene (CAS 5989-27-5) Can be absorbed through the skin.

**Germany TRGS 900 Limit Values: Skin designation**

d-Limonene (CAS 5989-27-5) Can be absorbed through the skin.

**Netherlands OELs (binding): Skin designation**

Ethanol (CAS 64-17-5) Can be absorbed through the skin.

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

d-Limonene (CAS 5989-27-5) Can be absorbed through the skin.

**Spain OELs: Skin designation**

d-Limonene (CAS 5989-27-5) Can be absorbed through the skin.

**8.2. Exposure controls****Appropriate engineering controls**

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

## Individual protection measures, such as personal protective equipment

<b>General information</b>	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles). Face shield is recommended.
<b>Skin protection</b>	
- Hand protection	Wear appropriate chemical resistant gloves.
- Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>Hygiene measures</b>	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.
<b>Environmental exposure controls</b>	Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Colour</b>	Not available.
<b>Odour</b>	Not available.
<b>Melting point/freezing point</b>	-114,1 °C (-173,38 °F) estimated
<b>Boiling point or initial boiling point and boiling range</b>	78,29 °C (172,92 °F) estimated
<b>Flammability</b>	Not applicable.
<b>Flash point</b>	13 °C (55,4 °F) estimated
<b>Auto-ignition temperature</b>	363 °C (685,4 °F) estimated
<b>Decomposition temperature</b>	Not available.
<b>pH</b>	Not available.
<b>Kinematic viscosity</b>	Not available.
<b>Solubility</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water) (log value)</b>	Not available.
<b>Vapour pressure</b>	79,06 hPa estimated
<b>Density and/or relative density</b>	
<b>Density</b>	0,812 g/cm <sup>3</sup> estimated
<b>Vapour density</b>	Not available.
<b>Particle characteristics</b>	Not available.
<b>9.2. Other information</b>	
<b>9.2.1. Information with regard to physical hazard classes</b>	No relevant additional information available.
<b>9.2.2. Other safety characteristics</b>	
<b>Percent volatile</b>	77,07 % estimated
<b>Specific gravity</b>	0,81173 estimated
<b>VOC</b>	76,6 % estimated

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.

<b>10.4. Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>10.5. Incompatible materials</b>	Strong oxidising agents.
<b>10.6. Hazardous decomposition products</b>	No hazardous decomposition products are known.

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	May cause an allergic skin reaction.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms** Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. May cause an allergic skin reaction. Dermatitis. Rash.

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>Acute toxicity</b>	No data available.
<b>Skin corrosion/irritation</b>	Due to partial or complete lack of data the classification is not possible.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory sensitisation</b>	Due to partial or complete lack of data the classification is not possible.
<b>Skin sensitisation</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	Due to partial or complete lack of data the classification is not possible.
<b>Carcinogenicity</b>	Due to partial or complete lack of data the classification is not possible.

**Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)**

Not listed.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Coumarin (CAS 91-64-5)	3 Not classifiable as to carcinogenicity to humans.
d-Limonene (CAS 5989-27-5)	3 Not classifiable as to carcinogenicity to humans.

<b>Reproductive toxicity</b>	Due to partial or complete lack of data the classification is not possible.
<b>Specific target organ toxicity - single exposure</b>	Due to partial or complete lack of data the classification is not possible.
<b>Specific target organ toxicity - repeated exposure</b>	Due to partial or complete lack of data the classification is not possible.
<b>Aspiration hazard</b>	Due to partial or complete lack of data the classification is not possible.
<b>Mixture versus substance information</b>	No information available.

### 11.2. Information on other hazards

<b>Endocrine disrupting properties</b>	The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** Harmful to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

Components	Species	Test Results
Coumarin (CAS 91-64-5)		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Guppy (Poecilia reticulata) 32 - 100 mg/l, 96 hours
d-Limonene (CAS 5989-27-5)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia pulex) 69,6 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 0,619 - 0,796 mg/l, 96 hours

Components	Species		Test Results
Ethanol (CAS 64-17-5)			
<b>Aquatic</b>			
<i>Acute</i>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	7,7 - 11,2 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout ( <i>Oncorhynchus mykiss</i> )	42 mg/l, 4 days

Geraniol (CAS 106-24-1)

**Aquatic**

*Acute*

Fish LC50 Brown trout (*Salmo trutta*) 2,3 - 3 mg/l, 96 hours

**12.2. Persistence and degradability**

No data is available on the degradability of any ingredients in the mixture.

**12.3. Bioaccumulative potential**

**Partition coefficient**

**n-octanol/water (log Kow)**

1,6-Nonadien-3-ol, 3,7-dimethyl-	3,3
beta-Ionone	1,903
Coumarin	1,39
d-Limonene	4,57
Ethanol	-0,31
Geraniol	3,56
Hexyl Cinnamal	4,686
Linalool	2,97
Linalyl acetate	3,9
	3,93

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

**12.6. Endocrine disrupting properties** The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7. Other adverse effects** The product contains volatile organic compounds which have a photochemical ozone creation potential.

**12.8. Additional information**

**Estonia Dangerous substances in soil Data**

Ethanol (CAS 64-17-5)	Chemical pesticides (As the total sum of the active substances) 0,5 mg/kg
	Chemical pesticides (As the total sum of the active substances) 20 mg/kg
	Chemical pesticides (As the total sum of the active substances) 5 mg/kg
Geraniol (CAS 106-24-1)	Chemical pesticides (As the total sum of the active substances) 0,5 mg/kg
	Chemical pesticides (As the total sum of the active substances) 20 mg/kg
	Chemical pesticides (As the total sum of the active substances) 5 mg/kg

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**EU waste code** The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Disposal methods/information** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Special precautions** Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

<b>14.1. UN number</b>	UN1170
<b>14.2. UN proper shipping name</b>	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) (Ethanol)
<b>14.3. Transport hazard class(es)</b>	
Class	3
Subsidiary risk	-
Label(s)	3
Hazard No. (ADR)	33
Tunnel restriction code	D/E
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	No.
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### RID

<b>14.1. UN number</b>	UN1170
<b>14.2. UN proper shipping name</b>	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) (Ethanol)
<b>14.3. Transport hazard class(es)</b>	
Class	3
Subsidiary risk	-
Label(s)	3
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	No.
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### ADN

<b>14.1. UN number</b>	UN1170
<b>14.2. UN proper shipping name</b>	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) (Ethanol)
<b>14.3. Transport hazard class(es)</b>	
Class	3
Subsidiary risk	-
Label(s)	3
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	No.
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### IATA

<b>14.1. UN number</b>	UN1170
<b>14.2. UN proper shipping name</b>	Ethanol solution (Ethanol)
<b>14.3. Transport hazard class(es)</b>	
Class	3
Subsidiary risk	-
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	Yes
<b>ERG Code</b>	3L
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed with restrictions.
<b>Cargo aircraft only</b>	Allowed with restrictions.

### IMDG

<b>14.1. UN number</b>	UN1170
<b>14.2. UN proper shipping name</b>	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) (Ethanol), MARINE POLLUTANT
<b>14.3. Transport hazard class(es)</b>	
Class	3
Subsidiary risk	-
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-E, S-D

**14.6. Special precautions for user**

Read safety instructions, SDS and emergency procedures before handling.

d-Limonene

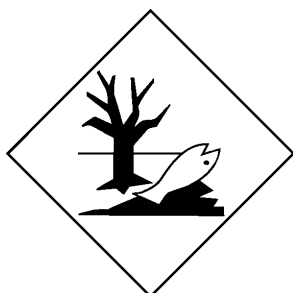
**14.7. Maritime transport in bulk according to IMO instruments**

Not established.

ADN; ADR; IATA; IMDG; RID



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

**UFI:**

Austria: APQN-2XE1-EJM1-C2PU  
Belgium: APQN-2XE1-EJM1-C2PU  
Bulgaria: APQN-2XE1-EJM1-C2PU  
Croatia: APQN-2XE1-EJM1-C2PU  
Cyprus: APQN-2XE1-EJM1-C2PU  
Czech Republic: APQN-2XE1-EJM1-C2PU  
Denmark: APQN-2XE1-EJM1-C2PU  
Estonia: APQN-2XE1-EJM1-C2PU  
EU: APQN-2XE1-EJM1-C2PU  
Finland: APQN-2XE1-EJM1-C2PU  
France: APQN-2XE1-EJM1-C2PU  
Germany: APQN-2XE1-EJM1-C2PU  
Great Britain: APQN-2XE1-EJM1-C2PU  
Greece: APQN-2XE1-EJM1-C2PU  
Hungary: APQN-2XE1-EJM1-C2PU  
Iceland: APQN-2XE1-EJM1-C2PU  
Ireland: APQN-2XE1-EJM1-C2PU  
Italy: APQN-2XE1-EJM1-C2PU  
Latvia: APQN-2XE1-EJM1-C2PU  
Lithuania: APQN-2XE1-EJM1-C2PU  
Luxembourg: APQN-2XE1-EJM1-C2PU  
Malta: APQN-2XE1-EJM1-C2PU  
Netherlands: APQN-2XE1-EJM1-C2PU  
Norway: APQN-2XE1-EJM1-C2PU  
Poland: APQN-2XE1-EJM1-C2PU  
Portugal: APQN-2XE1-EJM1-C2PU  
Romania: APQN-2XE1-EJM1-C2PU  
Slovakia: APQN-2XE1-EJM1-C2PU  
Slovenia: APQN-2XE1-EJM1-C2PU  
Spain: APQN-2XE1-EJM1-C2PU  
Sweden: APQN-2XE1-EJM1-C2PU

**Authorisations****Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

**Restrictions on use****Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Ethanol (CAS 64-17-5)  
Geraniol (CAS 106-24-1)  
Linalool (CAS 78-70-6)

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

**Other EU regulations****Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

d-Limonene (CAS 5989-27-5)  
Ethanol (CAS 64-17-5)

**Other regulations**

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

**National regulations**

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information****List of abbreviations**

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).  
CAS: Chemical Abstract Service.  
CEN: European Committee for Standardization.  
IATA: International Air Transport Association.  
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.  
IMDG: International Maritime Dangerous Goods.  
MAC: Maximum Allowed Concentration.  
MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
STEL: Short term exposure limit.  
TLV: Threshold Limit Value.  
TWA: Time Weighted Average.  
VLE: Exposure Limit Value.  
VME: Exposure Average Value.  
vPvB: Very persistent and very bioaccumulative.

#### References

Not available.

#### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

#### Full text of any statements, which are not written out in full under sections 2 to 15

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H301 Toxic if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

#### Revision information

None.

#### Training information

Follow training instructions when handling this material.

#### Disclaimer

Home Fragrance Italia S.r.L. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.