

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**5295 Turbo air refresher Flax**

Revision date: 04.02.2020

Product code: 93003

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

5295 Turbo air refresher Flax

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

AIR FRESHENERS AEROSOL (aqueous, non-aqueous, concentrated (mini-aerosol)) for consumer use

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

Company name:	KERONA GmbH	
Street:	Zeilbaumweg 15	
Place:	D-74613 Öhringen	
Telephone:	+49 7941-9205 4080	
e-mail:	mail@kerona.de	
Contact person:	Dr. Hans Goetz	Telephone: +49 170-8548 710
e-mail:	hans.goetz@kerona.de	
Internet:	www.kerona.de	

**1.4. Emergency telephone number:**Vergiftungs-Informations-Zentrale Freiburg  
+49 761-19 240**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Aerosol: Aerosol 1

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

**2.2. Label elements****Regulation (EC) No. 1272/2008**

Signal word: Danger

Pictograms:

**Hazard statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

**Precautionary statements**

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Special labelling of certain mixtures**

EUH208	Contains d-limonene, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one. May produce an allergic reaction.
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#### 2.3. Other hazards

No data available

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixtures

##### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
5989-27-5	d-limonene			0.1 - < 5 %
	227-813-5	601-029-00-7		
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H315 H317 H304 H400 H410			
54464-57-2	1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			< 0.1 %
	259-174-3		01-2119489989-04	
	Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 1; H315 H317 H410			
57378-68-4	1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one			< 0.1 %
	260-709-8			
	Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H302 H315 H317 H400 H410			

Full text of H and EUH statements: see section 16.

##### Labelling for contents according to Regulation (EC) No 648/2004

perfumes (Limonene, Linalool, Eugenol).

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection! Move victim out of danger zone. Never give anything by mouth to an unconscious person or a person with cramps. Remove contaminated, saturated clothing immediately.

##### After inhalation

Remove casualty to fresh air and keep warm and at rest. Consult a doctor immediately in the case of inhaling spray mist and show him packing or label. Put victim at rest, cover with a blanket and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

##### After contact with eyes

Protect uninjured eye. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

##### After ingestion

Seek medical advice immediately. If unconscious place in recovery position and seek medical advice. Do NOT induce vomiting.

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#### **4.2. Most important symptoms and effects, both acute and delayed**

No data available

#### **4.3. Indication of any immediate medical attention and special treatment needed**

No data available

### SECTION 5: Firefighting measures

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Sand

##### **Unsuitable extinguishing media**

High power water jet.

#### **5.2. Special hazards arising from the substance or mixture**

Im Brandfall können entstehen: Gefährliche Zersetzungsprodukte.  
Berstgefahr

#### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Wear personal protection equipment.

#### **Additional information**

In case of fire and/or explosion do not breathe fumes. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

### SECTION 6: Accidental release measures

#### **6.1. Personal precautions, protective equipment and emergency procedures**

See protective measures under point 7 and 8. Use personal protection equipment. Remove all sources of ignition. Avoid contact with skin and eyes. Provide adequate ventilation as well as local exhaustion at critical locations. Avoid breathing dust/fume/gas/mist/vapours/spray. Vapours are heavier than air and will spread at floor level.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

#### **6.3. Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly.

#### **6.4. Reference to other sections**

Safe handling: see section 7. Personal protection equipment: see section 8.

### SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Personal protection equipment: see section 8 Use only in well-ventilated areas. Do not breathe gas/vapour/aerosol. Avoid contact with skin and eyes. Do not spray on naked flames or any incandescent material. Vapours can form explosive mixtures with air. Take precautionary measures against static discharges.

##### **Advice on protection against fire and explosion**

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Heating causes rise in pressure with risk of bursting. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

##### **Further information on handling**

storage temperature: 15 - 35°C

#### **7.2. Conditions for safe storage, including any incompatibilities**

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#### Requirements for storage rooms and vessels

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed in a cool place.

#### Hints on joint storage

Keep away from: Oxidizing agents. Strong acid. Strong alkali  
 Keep away from food, drink and animal feedingstuffs.  
 Do not store together with: Self-reactive substances and mixtures

#### Further information on storage conditions

No hazardous reaction when handled and stored according to provisions.

#### 7.3. Specific end use(s)

Observe technical data sheet.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL

#### Additional advice on limit values

SECTION 16: Other information

#### 8.2. Exposure controls

##### Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

##### Protective and hygiene measures

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Take off contaminated clothing and wash it before reuse.

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

NBR (Nitrile rubber).  
 Thickness of the glove material >0,4 mm / > 480 min

##### Skin protection

Wear suitable protective clothing. Filter A/P 2

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

##### Environmental exposure controls

Do not allow to enter into surface water or drains.

### SECTION 9: Physical and chemical properties

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

Physical state:	Aerosol
Colour:	colourless
Odour:	Lemon

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pH-Value: not determined

**Changes in the physical state**

Melting point: not determined

Initial boiling point and boiling range: -42 °C

Flash point: -104 °C

**Explosive properties**

Heating causes rise in pressure with risk of bursting.

Lower explosion limits: 1,5 vol. %

Upper explosion limits: 15 vol. %

Ignition temperature: 400 °C

Decomposition temperature: not determined

Density (at 20 °C): 0,615 g/cm<sup>3</sup>

Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Evaporation rate: not applicable

**9.2. Other information**

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No data available

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

The product is stable under storage at normal ambient temperatures.

Heating causes rise in pressure with risk of bursting.

**10.4. Conditions to avoid**

Keep away from heat. Keep away from sources of ignition - No smoking.

**10.5. Incompatible materials**

Materials to avoid: Strong acid. Oxidizing agents. strong alkalis

**10.6. Hazardous decomposition products**Carbon dioxide (CO<sub>2</sub>). Carbon monoxide**Further information**

No data available

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No data available

**Acute toxicity**

No data available

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
5989-27-5	d-limonene				
	oral	LD50 > 5000 mg/kg	Rat	GESTIS	
	dermal	LD50 > 5000 mg/kg	Rabbit	GESTIS	
57378-68-4	1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one				
	oral	ATE 500 mg/kg			

**Irritation and corrosivity**

schwach

**Sensitising effects**

May cause an allergic skin reaction. (3,4-Methylendioxybenzaldehyd)

**Carcinogenic/mutagenic/toxic effects for reproduction**

No data available

**STOT-single exposure**

No data available

**STOT-repeated exposure**

No data available

**Aspiration hazard**

No data available

**Specific effects in experiment on an animal**

No data available

**Additional information on tests**

No data available

**Practical experience**
**Observations relevant to classification**

No data available

**Other observations**

No data available

**Further information**

sensitising

**SECTION 12: Ecological information**
**12.1. Toxicity**

No data available

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
5989-27-5	d-limonene					
	Acute fish toxicity	LC50 0,7 mg/l	96 h	Pimephales promelas		
	Acute crustacea toxicity	EC50 0,42 mg/l	48 h	Daphnia magna		

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

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No data available

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
5989-27-5	d-limonene	4,23

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Other adverse effects

Do not allow to enter into surface water or drains.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Remove according to the regulations.

##### List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

##### List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

##### List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

### SECTION 14: Transport information

#### Land transport (ADR/RID)

<b>14.1. UN number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS
<b>14.3. Transport hazard class(es):</b>	2
<b>14.4. Packing group:</b>	-
Hazard label:	2.1
Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0
Transport category:	2
Tunnel restriction code:	D

#### Inland waterways transport (ADN)

<b>14.1. UN number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS
<b>14.3. Transport hazard class(es):</b>	2
<b>14.4. Packing group:</b>	-
Hazard label:	2.1
Classification code:	5F

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Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0

### Marine transport (IMDG)

<b><u>14.1. UN number:</u></b>	UN 1950
<b><u>14.2. UN proper shipping name:</u></b>	AEROSOLS
<b><u>14.3. Transport hazard class(es):</u></b>	2.1
<b><u>14.4. Packing group:</u></b>	-
Hazard label:	2.1
Special Provisions:	63, 190, 277, 327, 344, 959
Limited quantity:	1000 mL
Excepted quantity:	E0
EmS:	F-D, S-U

### Air transport (ICAO-TI/IATA-DGR)

<b><u>14.1. UN number:</u></b>	UN 1950
<b><u>14.2. UN proper shipping name:</u></b>	AEROSOLS
<b><u>14.3. Transport hazard class(es):</u></b>	2.1
<b><u>14.4. Packing group:</u></b>	-
Hazard label:	2.1
Special Provisions:	A145 A167 A802
Limited quantity Passenger:	30 kg G
Passenger LQ:	Y203
Excepted quantity:	E0
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS:	yes
Danger releasing substance:	D-Limonen

### **14.6. Special precautions for user**

Achtung: Gase

### **14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

## SECTION 15: Regulatory information

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

#### **EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3: d-limonene

Entry 29: butane

2010/75/EU (VOC):	100 % (615 g/l)
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#### **National regulatory information**

Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
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Water hazard class (D):	1 - slightly hazardous to water
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### **15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.



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#### SECTION 16: Other information

##### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data

##### Relevant H and EUH statements (number and full text)

H222	Extremely flammable aerosol.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH208	Contains d-limonene, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one. May produce an allergic reaction.

##### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*