

Safety Data Sheet

according to Regulation (EC) No 1907/2006

5295 Turbo air refresher Flax 600 ml

Revision date: 07.02.2023

Product code: 70665

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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 600 ml

UFI: 8WP9-96JY-J009-WVV8

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:	Isabel Winter	Telephone: +49 7941 9205 4087
E-mail:	isabel.winter@kerona.de	
Internet:	www.kerona.de	

1.4. Emergency telephone number:

Medicines & Poisons Info Office +356 2545 6508

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Aerosol 1; H222-H229

Full text of hazard statements: see SECTION 16.

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, Octahydro tetramethyl acetone, 8-Damascone. May produce an allergic reaction.
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2.3. Other hazards

No data available

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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	
	Classification (Regulation (EC) No 1272/2008)			
5989-27-5	d-limonene			0.1 - < 1 %
	227-813-5	601-029-00-7	01-2119529223-47	
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H315 H317 H304 H400 H410			
78-70-6	dl-linalool			< 0.1 %
	201-134-4	603-235-00-2	01-2119474016-42	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317			
54464-57-2	Octahydro tetramethyl acetone			< 0.1 %
	259-174-3			
	Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 1; H315 H317 H410			
57378-68-4	8-Damascone			< 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.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
5989-27-5	227-813-5	d-limonene	0.1 - < 1 %
	dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 2000 mg/kg		
78-70-6	201-134-4	dl-linalool	< 0.1 %
	dermal: LD50 = 5610 mg/kg; oral: LD50 = 2790 mg/kg		
54464-57-2	259-174-3	Octahydro tetramethyl acetone	< 0.1 %
	dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg		
57378-68-4	260-709-8	8-Damascone	< 0.1 %
	dermal: LD50 = >5000 mg/kg; oral: LD50 = 1400 mg/kg		

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! 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.

After contact with skin

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

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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 but breathing normally, place in recovery position and seek medical advice. Do NOT induce vomiting.

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

Sand

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.

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

General advice

See protective measures under point 7 and 8. Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation as well as local exhaust at critical locations. Avoid breathing dust/fume/gas/mist/vapours/spray.

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

Other information

Absorb with liquid-binding material (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. Do not spray on naked flames or any incandescent material. Vapours can form explosive mixtures with air. Take precautionary measures against static discharges.

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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.

Advice on general occupational hygiene

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.

Further information on handling

15 - 35°C

7.2. Conditions for safe storage, including any incompatibilities

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

. 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

DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
5989-27-5	d-limonene			
Worker DNEL, long-term		inhalation	systemic	66,7 mg/m ³
Worker DNEL, long-term		dermal	systemic	9,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	16,6 mg/m ³
Consumer DNEL, long-term		dermal	systemic	4,8 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	4,8 mg/kg bw/day
78-70-6	dl-linalool			
Worker DNEL, long-term		inhalation	systemic	24,58 mg/m ³
Worker DNEL, long-term		dermal	systemic	3,5 mg/kg bw/day
Worker DNEL, long-term		dermal	local	3 mg/cm ²
Worker DNEL, acute		dermal	local	3 mg/cm ²
Consumer DNEL, long-term		inhalation	systemic	4,33 mg/m ³
Consumer DNEL, long-term		dermal	systemic	1,25 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	1,5 mg/cm ²
Consumer DNEL, acute		dermal	local	1,5 mg/cm ²
Consumer DNEL, long-term		oral	systemic	2,49 mg/kg bw/day

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PNEC values

CAS No	Name of agent	
Environmental compartment		Value
5989-27-5	d-limonene	
Freshwater		0,014 mg/l
Marine water		0,0014 mg/l
Freshwater sediment		3,85 mg/kg
Marine sediment		0,385 mg/kg
Secondary poisoning		133 mg/kg
Micro-organisms in sewage treatment plants (STP)		1,8 mg/l
Soil		0,763 mg/kg
78-70-6	dl-linalool	
Freshwater		0,2 mg/l
Freshwater (intermittent releases)		2 mg/l
Marine water		0,02 mg/l
Freshwater sediment		2,22 mg/kg
Marine sediment		0,222 mg/kg
Secondary poisoning		7,8 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,327 mg/kg

Additional advice on limit values

SECTION 16: Other information

8.2. Exposure controls

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

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	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		-42 °C
Lower explosion limits:		1,5 vol. %

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Upper explosion limits:	15 vol. %
Flash point:	-104 °C
Auto-ignition temperature:	400 °C
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / kinematic:	not determined
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.
Density (at 20 °C):	0,615 g/cm ³

9.2. Other information**Information with regard to physical hazard classes****Explosive properties**

Heating causes rise in pressure with risk of bursting.

Other safety characteristics**Evaporation rate:**

not applicable

Viscosity / dynamic:

not determined

Further 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: .

10.6. Hazardous decomposition productsCarbon dioxide (CO₂). Carbon monoxide**Further information**

No data available

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicokinetics, metabolism and distribution**

No data available

Acute toxicity

No data available

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
5989-27-5	d-limonene				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2010)	OECD Guideline 423
	dermal	LD50 > 5000 mg/kg	Rabbit	REACH Registration Dossier	
78-70-6	dl-linalool				
	oral	LD50 2790 mg/kg	Rat	Food Cosmet. Toxicol. Vol. 2, pp. 327-34	OECD Guideline 401
	dermal	LD50 5610 mg/kg	Rabbit	Study report (1970)	OECD Guideline 402
54464-57-2	Octahydro tetramethyl acetone				
	oral	LD50 >5000 mg/kg	Rat	Pre-supplier/manufacturer	OECD 401
	dermal	LD50 >5000 mg/kg	Rat	Pre-supplier/manufacturer	OECD 402
57378-68-4	8-Damascone				
	oral	LD50 1400 mg/kg	Mouse	Pre-supplier/manufacturer	OECD 401
	dermal	LD50 >5000 mg/kg	Rabbit	Pre-supplier/manufacturer	OECD 402

Irritation and corrosivity

schwach

Sensitising effects

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

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

No data available

11.2. Information on other hazards

Other information

No data available

Further information

sensitising

SECTION 12: Ecological information

12.1. Toxicity

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No data available

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
5989-27-5	d-limonene					
	Acute fish toxicity	LC50 mg/l	0,72	96 h	Pimephales promelas	REACH Registration Dossier
	Acute algae toxicity	ErC50 mg/l	0,32	72 h	Raphidocelis subcapitata	REACH Registration Dossier
	Acute crustacea toxicity	EC50 mg/l	0,307	48 h	Daphnia magna	Study report (2013)
	Fish toxicity	NOEC mg/l	0,37	8 d	Pimephales promelas	REACH Registration Dossier
	Crustacea toxicity	NOEC mg/l	0,08	21 d	Daphnia magna	REACH Registration Dossier
	Acute bacteria toxicity	(EC50 mg/l)	209	3 h		REACH Registration Dossier
78-70-6	dl-linalool					
	Acute fish toxicity	LC50 mg/l	27,8	96 h	Oncorhynchus mykiss	Study report (1991)
	Acute algae toxicity	ErC50 mg/l	88,3	96 h	Desmodesmus subspicatus	Study report (1988)
	Acute crustacea toxicity	EC50	59 mg/l	48 h	Daphnia magna	Study report (1991)
	Acute bacteria toxicity	(EC50 mg/l)	> 100	0.5 h	activated sludge of a predominantly domestic sewage	Study report (1991)

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
5989-27-5	d-limonene	4,38
78-70-6	dl-linalool	2,9

BCF

CAS No	Chemical name	BCF	Species	Source
5989-27-5	d-limonene	864,8	no data	REACH Registration D

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.

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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12.7. Other adverse effects

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
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)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.1



Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS

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14.3. Transport hazard class(es):

2.1

14.4. Packing group:

-

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)

14.1. UN number or ID number:

UN 1950

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es):

2.1

14.4. Packing group:

-

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. Maritime transport in bulk according to IMO instruments

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, Entry 40

2010/75/EU (VOC):

100 % (615 g/l)

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

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.

SECTION 16: Other information

Abbreviations and acronyms

Aerosol: Aerosols
 Flam. Liq: Flammable liquid
 Acute Tox: Acute toxicity
 Asp. Tox: Aspiration hazard
 Skin Irrit: Skin irritation
 Eye Irrit: Eye irritation
 Skin Sens: Skin sensitisation
 Aquatic Acute: Acute aquatic hazard
 Aquatic Chronic: Chronic aquatic hazard

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.
 H319 Causes serious eye irritation.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 EUH208 Contains d-limonene, Octahydro tetramethyl acetone, 8-Damascone. 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.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	AIR FRESHENERS AEROSOL (aqueous, non-aqueous, concentrated (mini-aerosol)) for consumer use	PW, C	0	3, 28	8a, 8b, 9	11a	0	37, 63	

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

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