

Safety Data Sheet

according to Regulation (EC) No 1907/2006

4295 Turbo air refresher 40 ml

Print date: 21.08.2015

Product code: 92468

Page 1 of 9

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

4295 Turbo air refresher 40 ml

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	Telefax: +49 7941-9205 4090
e-mail:	mail@kerona.de	
Contact person:	Dr. Hans Götz	Telephone: +49 170-8548 710
e-mail:	hans.goetz@kerona.de	
Internet:	www.kerona.de	

1.4. Emergency telephone number: +49 761-19 240**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

Indications of danger: F+ - Extremely flammable, Xi - Irritant, N - Dangerous for the environment

R phrases:

Extremely flammable.

May cause sensitisation by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Aerosol: Aerosol 1

Respiratory/skin sensitization: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

2.2. Label elements**Hazardous components which must be listed on the label**(R)-p-mentha-1,8-diene, d-limonene
citral

Signal word:

Danger

Pictograms:

GHS02-GHS07-GHS09



Safety Data Sheet

according to Regulation (EC) No 1907/2006

4295 Turbo air refresher 40 ml

Print date: 21.08.2015

Product code: 92468

Page 2 of 9

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

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.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
227-813-5	(R)-p-mentha-1,8-diene, d-limonene	1 - 2,5 %
5989-27-5	Xi - Irritant, N - Dangerous for the environment R10-38-43-50-53	
601-029-00-7	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1 (M-Factor = 1); H226 H315 H317 H400 H410	
226-394-6	citral	0,1 - 0,3 %
5392-40-5	Xi - Irritant R38-43	
605-019-00-3	Skin Irrit. 2, Skin Sens. 1; H315 H317	

Full text of R-, H- and EUH-phrases: see section 16.

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

4295 Turbo air refresher 40 ml

Print date: 21.08.2015

Product code: 92468

Page 3 of 9

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.

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 (CO₂). Extinguishing powder. Sand. alcohol resistant foam. Water spray

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

4295 Turbo air refresher 40 ml

Print date: 21.08.2015

Product code: 92468

Page 4 of 9

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

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.

Advice on storage compatibility

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 ³	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
		-	-		STEL (15 min)	WEL

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.

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

4295 Turbo air refresher 40 ml

Print date: 21.08.2015

Product code: 92468

Page 5 of 9

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:	Kirsche

Test method

pH-Value: not determined

Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	-44 °C
Flash point:	-97 °C

Explosive properties

Heating causes rise in pressure with risk of bursting.

Lower explosion limits:	1,4 vol. %
Upper explosion limits:	15 vol. %
Ignition temperature:	365 °C
Decomposition temperature:	not determined
Density (at 20 °C):	0,615 g/cm ³
Water solubility:	insoluble
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 (CO₂). Carbon monoxide.

Further information

No data available

Safety Data Sheet

according to Regulation (EC) No 1907/2006

4295 Turbo air refresher 40 ml

Print date: 21.08.2015

Product code: 92468

Page 6 of 9

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

No data available

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene				
	oral	LD50	> 2000 mg/kg	Rat	
	dermal	LD50	> 2000 mg/kg	Rabbit	IUCLID

Irritation and corrosivity

schwach

Sensitising effects

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

STOT-single exposure

No data available

Severe effects after repeated or prolonged exposure

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

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	Method	Dose	[h] [d]	Species	Source
5989-27-5	(R)-p-mentha-1,8-diene, 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

4295 Turbo air refresher 40 ml

Print date: 21.08.2015

Product code: 92468

Page 7 of 9

No data available

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
5989-27-5	(R)-p-mentha-1,8-diene, 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

Advice on disposal

Remove according to the regulations.

Waste disposal number of waste from 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 dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

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

Waste disposal number of 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:	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:	UN 1950
14.2. UN proper shipping name:	AEROSOLS

Safety Data Sheet

according to Regulation (EC) No 1907/2006

4295 Turbo air refresher 40 ml

Print date: 21.08.2015

Product code: 92468

Page 8 of 9

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)

Marine pollutant:	ja
EmS:	F-D, S-U

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 MARPOL73/78 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

2010/75/EU (VOC):	100 % (615 g/l)
2004/42/EC (VOC):	100 % (615 g/l)

National regulatory information

Employment restrictions:	Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D):	1 - slightly water contaminating

15.2. Chemical safety assessment

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

SECTION 16: Other information

Relevant R-phrases (Number and full text)

10	Flammable.
38	Irritating to skin.
43	May cause sensitisation by skin contact.
50	Very toxic to aquatic organisms.
53	May cause long-term adverse effects in the aquatic environment.

Relevant H- and EUH-phrases (Number and full text)

H222	Extremely flammable aerosol.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
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.
H411	Toxic to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on

Safety Data Sheet

according to Regulation (EC) No 1907/2006

4295 Turbo air refresher 40 ml

Print date: 21.08.2015

Product code: 92468

Page 9 of 9

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.)