

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 3290 AC Cleaner activeSilver 100 ml

Print date: 13.08.2015

Product code: 92603

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

##### 1.1. Product identifier

3290 AC Cleaner activeSilver 100 ml

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

###### Use of the substance/mixture

biocides

##### 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

R phrases:  
Flammable.  
Harmful 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 2  
Hazardous to the aquatic environment: Aquatic Chronic 3  
Hazard Statements:  
Flammable aerosol.  
Pressurised container: May burst if heated.  
Harmful to aquatic life with long lasting effects.

##### 2.2. Label elements

Signal word:	Warning
Pictograms:	GHS02



###### Hazard statements

H223	Flammable aerosol.
H229	Pressurised container: May burst if heated.
H412	Harmful 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

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	smoking.
P251	Do not pierce or burn, even after use.
P273	Avoid release to the environment.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to gemäß den Vorschriften dem Entsorgungssystem .

#### Special labelling of certain mixtures

EUH208	Contains (R)-p-mentha-1,8-diene, d-limonene, citral, 3,7-dimethyl-6-octen-1-ol, 1,8-cineole, n-hexyl ortho hydroxy benzoate. 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

Aerosol

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#### 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		
204-065-8	dimethyl ether	45 - 50 %
115-10-6	F+ - Extremely flammable R12	
603-019-00-8	Flam. Gas 1; H220	
209-406-4	Diocetyl sodium sulfosuccinate	0.1 - < 5 %
577-11-7	Xi - Irritant R38-41	
	Skin Irrit. 2, Eye Dam. 1; H315 H318	
	limonene	0.1 - < 5 %
5989-27-5		
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Chronic 1 (M-Factor = 1); H226 H315 H317 H304 H410	
01-2119529223-47		
	citral	< 0.1 %
5392-40-5		
	Skin Irrit. 2, Eye Irrit. 2A, Skin Sens. 1; H315 H319 H317	
01-2119462829-23		
	3,7-dimethyl-6-octen-1-ol	< 0.1 %
106-22-9		
	Skin Irrit. 2, Eye Irrit. 2A, Skin Sens. 1; H315 H319 H317	
01-2119453995-23		
	1,8-cineole	< 0.1 %
470-82-6		
	Flam. Liq. 3, Skin Sens. 1; H226 H317	
01-2119967772-24		
	n-hexyl ortho hydroxy benzoate	< 0.1 %
6259-76-3		
	Skin Irrit. 2, Eye Irrit. 2A, Skin Sens. 1, Aquatic Chronic 1 (M-Factor = 1); H315 H319 H317 H410	
01-2119638275-36		

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

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

15 % - 30 % aliphatic hydrocarbons, < 5 % non-ionic surfactants, < 5 % anionic surfactants, perfumes (Limonene, Citral, Citronellol, Linalool, alpha-Isomethyl ionone).

### 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.

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#### After inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. In case of inhaling spray mist, consult a physician. Put victim at rest, cover with a blanket and keep warm. If breathing is irregular or stopped, administer artificial respiration. In case of breathing difficulties administer oxygen.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Frequently or prolonged contact with skin may cause dermal irritation.

#### After contact with eyes

Protect uninjured eye. After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

#### 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

In case of fire, use sand, extinguishing powder or alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>).

##### Unsuitable extinguishing media

High power water jet.

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

In case of fire may be liberated: Hazardous decomposition products.

#### 5.3. Advice for firefighters

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

#### Additional information

Co-ordinate fire-fighting measures to the fire surroundings. 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. Heating causes rise in pressure with risk of bursting. Beware of reignition.

### 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. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

#### 6.2. Environmental precautions

Do not empty into drains.

#### 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).

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

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#### Advice on safe handling

Wear personal protection equipment (refer to section 8). Use only in well-ventilated areas. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not spray on naked flames or any incandescent material. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Take precautionary measures against static discharges.

#### Advice on protection against fire and explosion

Usual measures for fire prevention. The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. In use, may form flammable/explosive vapour-air mixture. Keep away from sources of ignition. - No smoking. Use only non-sparking tools. Use explosion-proof electrical equipment.

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

##### Requirements for storage rooms and vessels

To follow: TRG 300

Caution! Container under pressure. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Store in a well-ventilated place. Keep container tightly closed.

##### Advice on storage compatibility

Do not store together with: Oxidizing agents. acid. Base.

Keep away from food, drink and animal feedingstuffs.

storage temperature: 5-30°C

##### Further information on storage conditions

Does not decompose when used for intended uses.

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

No data available

## 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
115-10-6	Dimethyl ether	400	766		TWA (8 h)	WEL
		500	958		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

### 8.2. Exposure controls

#### Appropriate engineering controls

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

#### Protective and hygiene measures

General health and safety measures

Do not breathe aerosol.

Avoid contact with skin, eyes and clothes. When using do not eat, drink or smoke. Wash hands before breaks and after work. Draw up and observe skin protection programme.

#### Eye/face protection

Wear eye/face protection.

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#### Hand protection

Suitable material: NBR (Nitrile rubber).  
Thickness of the glove material 0,4 mm  
penetration time (maximum wearing period): > 480 min  
Breakthrough times and swelling properties of the material must be taken into consideration.

DIN EN 374

#### Skin protection

Wear suitable protective clothing. The type of personal protection equipment has to be chosen based on the concentration and amount of the dangerous substance at the workplace.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. gas filtering equipment (EN 141). Particle filter device (DIN EN 143)

#### 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:	aerosols
Colour:	colourless, light grey
Odour:	Lemon

#### Test method

#### Changes in the physical state

Flash point:	-42,2 °C
Lower explosion limits:	2,7 vol. %
Upper explosion limits:	32 vol. %
Ignition temperature:	240 °C
Vapour pressure: (at 20 °C)	5102 hPa
Vapour pressure: (at 50 °C)	11431 hPa
Density (at 20 °C):	0,97 g/cm <sup>3</sup>
Solvent content:	22,92 %, water: 26,73 %

### 9.2. Other information

No data available

## 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

No hazardous reaction when handled and stored according to provisions.  
Vapours may form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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#### 10.5. Incompatible materials

Materials to avoid: acid. Base. Oxidizing agents.

#### 10.6. Hazardous decomposition products

Hazardous decomposition products: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### **Irritation and corrosivity**

Not an irritant.

##### **Sensitising effects**

May cause sensitisation especially in sensitive humans.

##### **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**

Irritating to respiratory system.

### SECTION 12: Ecological information

#### 12.1. Toxicity

No data available

#### 12.2. Persistence and degradability

AT2

No data available

#### 12.3. Bioaccumulative potential

No data available

##### **Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
115-10-6	dimethyl ether	0,1

#### 12.4. Mobility in soil

No data available

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

No data available

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#### **12.6. Other adverse effects**

Do not empty into drains; dispose of this material and its container in a safe way.

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **Advice on disposal**

Disposal considerations

Dispose of waste according to applicable legislation. The waste key according to the European Waste Catalogue (EWC number) refers to the real wastes origin and therefore is not product- but use-oriented.

##### **Waste disposal number of waste from residues/unused products**

160306 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes other than those mentioned in 16 03 05

##### **Waste disposal number of used product**

160306 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes other than those mentioned in 16 03 05

##### **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)**

<b>14.1. UN number:</b>	UN 1170
<b>14.2. UN proper shipping name:</b>	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3
Classification code:	F1
Special Provisions:	144 601
Limited quantity:	5 L
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E

##### **Other applicable information (land transport)**

E1

#### **Inland waterways transport (ADN)**

<b>14.1. UN number:</b>	UN 1170
<b>14.2. UN proper shipping name:</b>	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3
Classification code:	F1
Special Provisions:	144 601
Limited quantity:	5 L

##### **Other applicable information (inland waterways transport)**

E1



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#### Marine transport (IMDG)

<b>14.1. UN number:</b>	UN 1170
<b>14.2. UN proper shipping name:</b>	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3
Special Provisions:	144, 223
Limited quantity:	5 L
EmS:	F-E, S-D

#### Other applicable information (marine transport)

E1

#### Air transport (ICAO)

<b>14.1. UN number:</b>	UN 1170
<b>14.2. UN proper shipping name:</b>	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3
Special Provisions:	A3 A58 A180
Limited quantity Passenger:	10 L
IATA-packing instructions - Passenger:	355
IATA-max. quantity - Passenger:	60 L
IATA-packing instructions - Cargo:	366
IATA-max. quantity - Cargo:	220 L

#### Other applicable information (air transport)

Passenger-LQ: Y344

E1

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

SECTION 6: Accidental release measures  
SECTION 7: Handling and storage  
SECTION 8: Exposure controls/personal protection

### 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):	70,788 % (686,643 g/l)
2004/42/EC (VOC):	70,788 % (686,643 g/l)

##### National regulatory information

Employment restrictions:	Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing. Observe employment restrictions for women of child-bearing age.
Water contaminating class (D):	1 - slightly water contaminating
Biocide registry number:	N-61516

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

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#### SECTION 16: Other information

##### Relevant R-phrases (Number and full text)

- 12 Extremely flammable.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.

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

- H220 Extremely flammable gas.
- H223 Flammable aerosol.
- H226 Flammable liquid and vapour.
- H229 Pressurised container: May burst if heated.
- 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.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- EUH208 Contains (R)-p-mentha-1,8-diene, d-limonene, citral, 3,7-dimethyl-6-octen-1-ol, 1,8-cineole, n-hexyl ortho hydroxy benzoate. 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.)*