

Date of issue: 31.03.2015 Replaces Data Sheet of: ---  
 "\*\*\*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

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

- 1.1 **Product identifier**  
**Trade Name:** ARDAP Spray  
**Article No.:** n.av.  
**Preparation No.:** n.av.  
**Registration No.:** n.av.
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**  
 Use: Biocidal product
- 1.3 **Details of the supplier of the safety data sheet**
- 1.3.1 **Address of the Company / Supplier:**  
 Quiko GmbH Heimtierprodukte, Franzstr. 95, D- 46395 Bocholt  
 Telephone: +49 (0) 28712487-0, Telefax: +49 (0) 28712487-66, E-Mail: info@quiko.de
- 1.3.2 **Responsible for the data sheet:**  
 CoSiChem AG, Ernst-Lemmer-Straße 27, D - 35041 Marburg, info@cosichem.de
- 1.4 **Emergency telephone number**  
 Emergency - Telephone of Company / Undertaking Information Centre Specialising in Symptoms of  
 Poisoning  
 Telephone: +49 (0) 28712487-0 (8:30 – 16:30) Telephone: +44 870 600 6266

**SECTION 2: Hazards identification**

- 2.1 **Classification of the substance or mixture**  
**Classification and labelling according to Directive 1272/2008/EC:**  
 Flam. Aerosol 1; H222 / Skin Irrit. 2; H315 /Eye Irrit. 2; H319 / Skin Sens. 1; H317 / STOT SE 3; H336 /  
 Aquatic Acute 1; H400 / Aquatic Chronic 1; H410  
**Classification and labelling according to Directive 1999/45/EC:**  
 Extremely flammable; R12 / Irritant; R36/38 / Dangerous for the environment ; R50/53 /  
 sensitizing; R43 / R66-67
- 2.2 **Label elements**  
 Classification according to 1272/2008/EC: Yes.  
 Applicable Exemptions: No.  
 Signal word(s): Danger  
 Component(s): contains Permethrin
- H - Phrases:**  
 H222: Extremely flammable aerosol.  
 H315: Causes skin irritation.  
 H317: May cause an allergic skin reaction.  
 H319: Causes serious eye irritation.  
 H336: May cause drowsiness or dizziness.  
 H410: Very toxic to aquatic life with long lasting effects.
- P - Phrases:**  
 P102: Keep out of reach of children.  
 P260: Do not breathe spray.  
 P262: Do not get in eyes, on skin, or on clothing.
- Additional Markings:**  
 Pressurised container: May burst if heated. Protect from sunlight. Do not expose to temperatures exceeding  
 50°C/122°F. Do not pierce or burn, even after use. Keep away from heat, hot surfaces, sparks, open flames  
 and other ignition sources. No smoking.  
 In use, may form flammable / explosive vapour - air mixture.
- The above mentioned labelling is valid for distribution to private consumer.
- 2.3 **Other hazards**  
 This mixture contains no substances which are assessed to be PBT or vPvB.

Hazard pictogram(s):



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**SECTION 3: Composition/information on ingredients****3.1 Substances****Dangerous Ingredients:****3.2 Mixtures****Chemical Characterisation:**

Aerosol

**Dangerous Ingredients:**

CAS - No.	Index - No.	EC - No.	Material	m% - range	Symbol	R / H - phrases
106-97-8	601-004-00-0	203-448-7	Butan REACH_01-2119474691-32-xxxx	25 - 35%	F+ ; GHS02 GHS04 Dgr	R 12 ; H220
74-98-6	601-003-00-5	200-827-9	Propan REACH_01-2119486944-21-xxxx	25 - 35%	F+ ; GHS02 GHS04 Dgr	R 12 ; H220
64742-49-0	649-328-00-1	265-151-9	Naphtha (Erdöl), mit Wasserstoff behandelt, leicht	15 - 20%	F, Xn, N ; GHS02 GHS07 GHS08 GHS09	R 11-38-51/53-65-67 ; H225 H304 H315 H336 H411
64-17-5	603-002-00-5	200-578-6	Ethanol REACH_01-2119457610-43-xxxx	5 - 10%	F ; GHS02 Dgr	R 11 ; H225
67-63-0	603-117-00-0	200-661-7	Propan-2-ol REACH_01-2119457558-25-xxxx	5 - 10%	F, Xi ; GHS02 GHS07 Dgr	R 11-36-67 ; H225 H319 H336
67-64-1	606-001-00-8	200-662-2	Aceton REACH_01-2119471330-49-xxxx	5 - 10%	F, Xi ; GHS02 GHS07 Dgr	R 11-36-66-67 ; H225 H319 H336 EUH066
31807-55-3	n.av.	250-816-8	Isododecan	5 - 10%	Xn ; GHS02 GHS08	R 10-65 ; H226 H304
1330-20-7	601-022-00-9	215-535-7	Xylol (o, m, p) REACH_01-2119488216-32-xxxx	1 - 5%	Xn ; GHS02 GHS07 Wng	R 10-20/21-38 ; H226 H332 H312 H315
51-03-6	n.av.	200-076-7	2-(2-Butoxyethoxy)ethyl-6-propylpiperonylether REACH_01-2119537431-46-xxxx	1 - 2,5%	Xn, N ; GHS07 GHS09	R 21-50/53 ; H312 H400 H410
52645-53-1	613-058-00-2	258-067-9	m-Phenoxybenzyl-3-(2, 2-dichlorvinyl)-2, 2-dimethylcyclopropanocarboxylat	0,1 - 1%	Xn, N ; GHS07 GHS09 Wng	R 20/22-43-50/53 ; H332 H302 H317 H410
8003-34-7	613-022-00-6	232-319-8	Pyrethrine und Pyrethroide (Pyrethrum)	0,1 - 1%	Xn, N ; GHS07 GHS09 Wng	R 20/21/22-50/53 ; H332 H312 H302 H410

Text of R-/H- phrases: see section 16

**SECTION 4: First aid measures****4.1 Description of first aid measures****4.1.1 Inhalation:**

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

If symptoms persist, call a physician.

**4.1.2 Skin Contact:**

Wash off with soap and water. If symptoms persist, call a physician.

**4.1.3 Eye Contact:**

Rinse immediately with plenty of water, also under the eyelids. Consult a physician. Consult a physician.

**4.1.4 Ingestion:**

Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting.

Consult a physician if necessary.

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

headache, Dizziness, Daze

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

Treat symptomatically. Later control for pneumonia and lung oedema.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****5.1.1 Suitable Extinguishing Media:**Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.**5.1.2 Extinguishing Media to Avoid:**

high volume water jet

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

In the event of fire the following can be released: Carbon oxides

**5.3 Advice for firefighters****5.3.1 Special Protective Equipment:**

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

**5.3.2 Additional Information:**

In the event of fire, cool tanks with water spray.

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**SECTION 6: Accidental release measures**

- 6.1 **Personal precautions, protective equipment and emergency procedures**  
See chapter 8.2.2  
Ensure adequate ventilation. Keep away from sources of ignition - No smoking.  
Vapours are heavier than air and may spread along floors.
- 6.2 **Environmental precautions**  
Do not let product enter drains. Local authorities should be advised if significant spillages cannot be contained.
- 6.3 **Methods and material for containment and cleaning up**  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- 6.4 **Reference to other sections**  
Contaminated surfaces will be extremely slippery.

**SECTION 7: Handling and storage**

- 7.1 **Precautions for safe handling**
- 7.1.1 **Precautions for Safe Handling:**  
Do not inhale aerosol. Avoid contact with skin and eyes. Take off all contaminated clothing immediately. When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Avoid contact with skin.
- 7.1.2 **Precautions in Case of Fire and Explosion:**  
Vapours may form explosive mixture with air. Keep away from sources of ignition - No smoking.
- 7.2 **Conditions for safe storage, including any incompatibilities**
- 7.2.1 **Storage Instructions:**  
Jointless smooth floor Provide adequate ventilation.
- 7.2.2 **Store away from:**  
Incompatible with oxidizing agents.
- 7.2.3 **Further Information on Storage Conditions:**  
Keep away from direct sunlight.
- 7.3 **Specific end use(s)**  
n.av.

**SECTION 8: Exposure controls/personal protection**

- 8.1 **Control parameters**
- | <b>Material</b>                                    | <b>Limit Value</b>  |
|--|---|
| Butan  | AGW: 1000 ppm   2400 mg/m <sup>3</sup>  |
| Propan   | AGW: 1000 ppm   1800 mg/m <sup>3</sup>  |
| Naphtha (Erdöl), mit Wasserstoff behandelt, leicht | AGW: 200 ppm   500 mg/m <sup>3</sup>  |
| Ethanol  | AGW: 500 ppm   960 mg/m <sup>3</sup>  |
| Propan-2-ol  | AGW: 200 ppm   500 mg/m <sup>3</sup>  |
| Aceton   | AGW: 500 ppm   1200 mg/m <sup>3</sup> , TWA: 500 ppm   1210 mg/m <sup>3</sup> |
| Xylol (o, m, p)                                    | AGW: 100 ppm   440 mg/m <sup>3</sup> , TWA: 50 ppm   221 mg/m <sup>3</sup>    |
| Pyrethrine und Pyrethroide (Pyrethrum)             | AGW: 1 E mg/m <sup>3</sup> , TWA: - ppm   1 mg/m <sup>3</sup>                 |
- 8.2 **Exposure controls**
- 8.2.1 **Appropriate engineering controls**  
Ensure adequate ventilation, especially in confined areas. Take precautionary measures against static discharges.
- 8.2.2 **Individual protection measures**
- 8.2.2a **Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter. (AX)
- 8.2.2b **Hand Protection:** solvent-resistant gloves: Viton, PVC, Break through time: > 6h  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- 8.2.2c **Eye Protection:** safety glasses
- 8.2.2d **Skin Protection:** protective suit
- 8.2.2e **Further Information:** Observe wearing time limits:
- 8.2.3 **Environmental exposure controls:**  
n.av.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

9.1.1	<b>Form:</b> aerosol	<b>Colour:</b> colourless	<b>Odour:</b> characteristic
			<b>Odour threshold:</b> n.av.
9.1.2	pH-value, undiluted:	n.ap.,	pH-value, 1% aqueous solution: n.ap.
9.1.3	Boiling point / Boiling - range (°C):	n.av.,	Melting point / Melting range (°C): n.av.
9.1.4	Flash point (°C):	< 21, closed cup	
9.1.5	Flammability (EEC A10/A13):	n.av.	
9.1.6	Ignition temperature (°C):	n.av.	
9.1.7	Autoflammability (EEC A16):	n.ap.	
9.1.8	Oxidising properties:	None.	
9.1.9	Explosion hazard:	n.av.	
9.1.10	Explosion limits (Vol.%) lower:	n.av., upper: n.av.	
9.1.11	Vapour pressure: / Vapour density (Air = 1):	n.av. / > 1; Vapours are heavier than air and may spread along floors.	
9.1.12	Density (g/ml):	< 1	
9.1.13	Solubility (in Water):	practically insoluble	Soluble in: miscible with most organic solvents
9.1.14	Partition coefficient, n-Octanol / Water:	n.av.	
9.1.15	Viscosity:	n.av.	
9.1.16	Solvent content (m %):	> 80	
9.1.17	Thermal decomposition (°C):	n.av.	
9.1.18	Evaporation rate:	n.av.	
9.2	<b>Other information</b>	n.av.	

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

Risk of receptacle bursting. at high temperatures.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No dangerous reaction known under conditions of normal use.

**10.4 Conditions to avoid**

Heat, flames and sparks. Vapours may form explosive mixtures with air.

**10.5 Incompatible materials**

Incompatible with oxidizing agents.

**10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****11.1.1 Substances:** n.ap.**11.1.2 Mixtures**

Acute Toxicity:

Inhalation:

n.av.

Ingestion:

n.av.

Skin Contact:

n.av.

Irritation / corrosion (to skin / eye):

Irritating to skin.

Sensitisation:

May cause sensitization by skin contact.

Carcinogenicity:

n.av.

Mutagenicity:

n.av.

Teratogenicity:

n.av.

Narcotic Effects:

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**11.1.3 – Practical Experience**

11.1.12 n.av.

**11.1.13 Practical Experience**

Observations relevant for classification:

None.

Further Observations:

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Classification of the preparation has been done by calculation in accordance with EEC directives.

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

Very toxic to aquatic organisms.

**12.2 Persistence and degradability**

The product is slightly soluble in water. It can be eliminated from water by abiotic processes.

**12.3 Bioaccumulative potential**

May cause long-term adverse effects in the aquatic environment.

**12.4 Mobility in soil**

n.av.

**12.5 Results of PBT and vPvB assessment**

This mixture contains no substances which are assessed to be PBT or vPvB.

**12.6 Other adverse effects**

12.6.1 COD-Value, mg/g:

n.av.

12.6.2 BOD5-Value, mg/g:

n.av.

12.6.3 AOX-Remarks:

Not relevant

12.6.4 Significant Components:

None.

12.6.5 Other adverse effects:

None.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

13.1.1 Recommendation: D 10 / R 1

Waste - Code - No.: 16 05 04

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

In addition comply with the regional authorities.

**13.2 Contaminated Packaging**

13.2.1 Recommendation: Wash with suitable cleaner. Otherwise as described under Residues. Offer rinsed packaging material to local recycling facilities.




13.2.2 Safe Handling: As described under Residues. Handle in accordance with good industrial hygiene and safety practice.

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**SECTION 14: Transport information**

	ADR	IMDG	IATA
14.1	<b>UN number</b> 1950	1950	1950
14.2	<b>UN proper shipping name</b> UN 1950 Aerosol	Aerosols & MARINE POLLUTANT(Permethrin)	Aerosols, flammable
14.3	<b>Transport hazard class(es)</b> 2 	2 	2.1 
14.4	<b>Packing group</b> n.ap.	n.ap.	n.ap.
14.5	<b>Environmental hazards</b>	Yes.	
14.6	<b>Special precautions for user</b> Transport category: 2 Classification Code: 5F Hazard - No.: LQ: 1 L	F-D, S-U	Packing Instructions (Passenger) 203 Packing Instructions (Cargo) 203
14.7	<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	n.av.	

**SECTION 15: Regulatory information**

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
n.av.
- 15.2 **Chemical safety assessment :**  
A chemical safety assessment has not been carried out.

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**SECTION 16: Other information****Text of R / H phrases mentioned in Section 3**

R 10: Flammable.

R 11: Highly flammable.

R 12: Extremely flammable.

R 20/21: Harmful by inhalation and in contact with skin.

R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R 20/22 Harmful by inhalation and if swallowed.

R 21: Harmful in contact with skin.

R 36: Irritating to eyes.

R 38: Irritating to skin.

R 43: May cause sensitization by skin contact.

R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65: Harmful: may cause lung damage if swallowed.

R 66: Repeated exposure may cause skin dryness or cracking.

R 67: Vapours may cause drowsiness and dizziness.

EUH066: Repeated exposure may cause skin dryness or cracking.

H220: Extremely flammable gas.

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H336: May cause drowsiness or dizziness.

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.

This datasheet has been compiled in accordance with EU regulation 453/201.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

Prepared by:

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