

Date of issue: 02.01.2019 Replaces Data Sheet of: 25.10.2018  
 "" 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.ap.
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**  
 Identified uses: aerosol, Biocidal product type
- 1.3 **Details of the supplier of the safety data sheet**
- 1.3.1 **Address of the Company / Supplier:**  
 ARDAP CARE GmbH, 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 23, 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**  
 Aerosol 1; H222 H229 / Skin Irrit. 2; H315 / Skin Sens. 1; H317 / Eye Irrit. 2; H319 / STOT SE 3; H336 / Aquatic Acute 1; H400 / Aquatic Chronic 1; H410

- 2.2 **Label elements**  
 Classification according to 1272/2008/EC: Yes.  
 Applicable Exemptions: No.  
 Signal word(s): Danger  
 Component(s): Contains Permethrin; Propan-2-ol;  
 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane.

Hazard pictogram(s):



- H - Phrases:**  
 H222: Extremely flammable aerosol.  
 H229: Pressurised container: May burst if heated.  
 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.  
 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.  
 P260f: Do not breathe spray.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313: If eye irritation persists: Get medical advice/attention.  
 P271: Use only outdoors or in a well-ventilated area.  
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
 P501: Dispose of contents/container to household waste.

**Additional Markings:**  
 In use may form flammable/explosive vapour-air mixture.

- 2.3 **Other hazards**  
 This mixture contains no substances which are assessed to be PBT or vPvB.

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**SECTION 3: Composition/information on ingredients****3.1 Substances**

n.ap.

**3.2 Mixtures****Chemical Characterisation:**

aerosol; Classification is based on 100% liquid (without propellant).

**Dangerous Ingredients:**

Material	CAS - No.	Index - No.	EC - No.	REACH - No.	m% - range
<b>Butan</b> 106-97-8 Flam. Gas 1; H220 / Liq. Press. Gas; H280		601-004-00-0	203-448-7	01-2119474691-32-xxxx	<b>40 - 50%</b>
<b>Propan</b> 74-98-6 Flam. Gas 1; H220 / Liq. Press. Gas; H280		601-003-00-5	200-827-9	01-2119486944-21-xxxx	<b>10 - 15%</b>
<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b> 92128-66-0 H225 / H315 / H304 / H336 / H411		n.av.	921-024-6	01-2119486944-21-xxxx	<b>15 - 20%</b>
<b>Propan-2-ol</b> 67-63-0 Flam. Liq. 2; H225 / Eye Irrit. 2; H319 / STOT SE 3; H336		603-117-00-0	200-661-7	01-2119457558-25-xxxx	<b>10 - 15%</b>
<b>Isododecan</b> 31807-55-3 Flam. Liq. 3; H226 / Asp. Tox. 1; H304		n.av.	250-816-8	n.av.	<b>1 - 5%</b>
<b>Aceton</b> 67-64-1 Flam. Liq. 2; H225 / Eye Irrit. 2; H319 / STOT SE 3; H336		606-001-00-8	200-662-2	01-2119471330-49-xxxx	<b>1 - 5%</b>
<b>Isobutan</b> 75-28-5 Flam. Gas 1; H220 / Liq. Press. Gas; H280		601-004-00-0	200-857-2	01-2119485395-27-xxxx	<b>1 -2,5%</b>
<b>2-(2-Butoxyethoxy)ethyl-6-propylpiperonylether</b> 51-03-6 Acute Tox. 4; H312 / Aquatic Acute 1; H400 / Aquatic Chronic 1; H410		n.av.	200-076-7	01-2119537431-46-xxxx	<b>1%</b>
<b>m-Phenoxybenzyl-3-(2, 2-dichlorvinyl)-2, 2-dimethylcyclopropanocarboxylat</b> 52645-53-1 Acute Tox. 4*; H302 / Skin Sens. 1; H317 / Acute Tox. 4*; H332 / Aquatic Acute 1; H400 / Aquatic Chronic 1; H410		613-058-00-2	258-067-9	n.av.	<b>0,82%</b>
<b>Chrysanthemum cinerariaefolium, Extrakt</b> 89997-63-7 Acute Tox. 4; H302 / Acute Tox. 4; H312 / Asp. Tox. 1; H304 / Aquatic Acute 1; H400 / Aquatic Chronic 1; H410		n.av.	289-699-3	n.av.	<b>0,1%</b>
<b>(R)-p-Mentha-1,8-dien</b> 5989-27-5 Flam. Liq. 3; H226 / Skin Irrit. 2; H315 / Skin Sens. 1; H317 / Aquatic Acute 1; H400 / Aquatic Chronic 1; H410		601-029-00-7	227-813-5	01-2119529223-47-xxxx	<b>0,01 – 0,25%</b>

Text of H - phrases: see section 16

m% - range: x – y  $\hat{=}$  x  $\geq$  – < y

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**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 immediately with soap and plenty of water. If symptoms persist, call a physician.
- 4.1.3 **Eye Contact:**  
Rinse immediately with plenty of water, also under the eyelids. If symptoms persist, call a physician.
- 4.1.4 **Ingestion:**  
Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting.  
If symptoms persist, call a physician.
- 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.

**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:**  
None.
- 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.

**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.
- 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**  
None.

**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:**  
Ensure adequate ventilation, especially in confined areas.
- 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.

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**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Material****Limit Value**

Butan	1000 ppm   2400 mg/m <sup>3</sup>
Propan	1000 ppm   1800 mg/m <sup>3</sup>
Propan-2-ol	200 ppm   500 mg/m <sup>3</sup>
Aceton	500 ppm   1200 mg/m <sup>3</sup> , TWA: 500 ppm   1210 mg/m <sup>3</sup>
Isobutan	1000 ppm   2400 mg/m <sup>3</sup>
(R)-p-Mentha-1,8-dien	20 ppm   110 mg/m <sup>3</sup>

**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Provide adequate ventilation. Take precautionary measures against static discharge.

**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: butyl-rubber ≥ 0,5mm; Break through time: ≥ 6h;

Viton ≥ 0,4mm; Break through time: ≥ 6h.

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

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:**

tightly fitting safety goggles

**8.2.2d Skin Protection:**

protective suit

**8.2.2e Further Information:**

Observe wearing time limits:

**8.2.3 Environmental exposure controls:**

n.av.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****9.1.1 Form:** aerosol**Colour:** colourless**Odour:** Zitronen**Odour threshold:** n.av.**9.1.2 pH-value, undiluted:**

n.ap.

**9.1.2 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):**

&lt; 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:**

0,8, upper: 12

**9.1.11 Vapour pressure:**

3 – 5 bar (20°C)

**Vapour density (Air = 1):**

&gt; 1; Vapours are heavier than air and may spread along floors.

**9.1.12 Density (g/ml):**

0,629

**9.1.13 Solubility (in Water):**

n.ap.

**9.1.14 Partition coefficient, n-Octanol / Water:**

n.av.

**9.1.15 Viscosity:**

n.av.

**9.1.16 Solvent content (m %):**

&gt; 90

**9.1.17 Thermal decomposition (°C):**

n.av.

**9.1.18 Evaporation rate:**

n.av.

**9.2 Other information**

n.av.

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**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.

**SECTION 11: Toxicological information**

- 11.1 **Information on toxicological effects**  
Acute Health Effects:
- |                                    |                                      |
|------------------------------------|--------------------------------------|
| Inhalation:                        | n.av.                                |
| Ingestion:                         | n.av.                                |
| Skin Contact:                      | n.av.                                |
| Skin corrosion / irritation:       | Causes skin irritation.              |
| Serious eye damage / irritation:   | Causes serious eye irritation.       |
| Respiratory or skin sensitisation: | May cause an allergic skin reaction. |
| Germ cell mutagenicity:            | n.av.                                |
| Carcinogenicity:                   | n.av.                                |
| Reproductive toxicity:             | n.av.                                |
| STOT-single exposure:              | May cause drowsiness or dizziness.   |
| STOT-repeated exposure:            | n.av.                                |
| Aspiration hazard:                 | n.av.                                |
- 11.1.1 – **Practical Experience**
- 11.1.11 n.av.
- 11.1.12 **Practical Experience**  
Observations relevant for classification: None.  
Further Observations:  
Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.  
Classification of the preparation has been done by calculation in accordance with EEC directives.

**SECTION 12: Ecological information**

- 12.1 **Toxicity**  
We have no quantitative data concerning the ecological effects of this product.  
Very toxic to aquatic organisms.
- |  |   |
|--|---|
| Piperonylbutoxid:                        | LD <sub>50</sub> (96h) fisch: 0,72 mg/l; LD <sub>50</sub> (48h) Daph. Mag.: 2,1 mg/l;   |
| Permethrin:                              | LC <sub>50</sub> (Pimephales promelas / 96h): 0,016 mg/l;<br>EC <sub>50</sub> (Daphnia magna / 48h): 0,32 µg/l ;  |
| Chrysanthemum cinerariaefolium, Extrakt: | LC <sub>50</sub> (96 h) Oncorhynchus mykiss: 0,0052 mg/l;<br>EC <sub>50</sub> (48 h) Daphnia magna: 0,012 mg/l; EC <sub>50</sub> (72 h) Alge: 1,27 mg/l |
- 12.2 **Persistence and degradability**  
No data is available on the product itself. The product is highly volatile and can be largely eliminated from the water by stripping.
- 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: | hydrocarbons |
| 12.6.5 Other adverse effects:  | None.        |

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**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.

**13.1.2 Contaminated Packaging**Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.  
Offer rinsed packaging material to local recycling facilities.Safe Handling: As described under Residues.  
Handle in accordance with good industrial hygiene and safety practice.**SECTION 14: Transport information**

	<b>ADR</b>	<b>IMDG</b>	<b>IATA</b>
<b>14.1 UN number</b>	1950	1950	1950
<b>14.2 UN proper shipping name</b>	UN 1950 Druckgaspackungen	Aerosols & MARINE POLLUTANT (enthält: Piperonylbutoxid, Permethrin; Hydrocarbons)	Aerosols, flammable
<b>14.3 Transport hazard class(es)</b>	2 	2 	2.1 
<b>14.4 Packing group</b>	n.ap.	n.ap.	n.ap.
<b>14.5 Environmental hazards</b>		Yes.	
<b>14.6 Special precautions for user</b>	Transport category: 2 Classification Code: 5F Hazard - No.: n.ap. LQ: 1 L	F-D, S-U	Packing Instructions (Passenger) 203 Packing Instructions (Cargo) 203
<b>14.7 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 :**

n.ap.

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

EUH066: Repeated exposure may cause skin dryness or cracking.

H220: Extremely flammable gas.

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H280: Contains gas under pressure; may explode if heated.

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 2015/830.

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: CoSiChem AG, Ernst-Lemmer-Straße 23, D - 35041 Marburg, info@cosichem.de, +49-6421-886563

Receipt of Data: 19.10.2018, quk\_0005

