

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 17.09.2009

Revision: 29.09.2008

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** ARDAP Spray PPP
- **Application of the substance / the preparation** Insecticide
- **Manufacturer/Supplier:**
 Quiko GmbH Heimtierprodukte
 Franzstr. 95
 D-46395 Bocholt
 Tel.: +49 (0) 2871 -2487-0 | Fax: -66
 Internet: www.quiko.de
 E-mail: info@quiko.de
- **Further information obtainable from:**
 Sales Department (via central phone number)
 Tel.: +49 (0) 2871 -2487-0
- **Information in case of emergency:**
 Central phone number
 Tel.: +49 (0) 2871 -2487-0

2 Hazards identification

- **Hazard description:**



F+ Extremely flammable
 N Dangerous for the environment

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Warning! Pressurized container.

Has a narcotizing effect.

R 12 Extremely flammable.

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

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

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 a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Without sufficient ventilation formation of explosive mixtures may be possible.

Keep out of the reach of children

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture: consisting of the following components.

- **Dangerous components:**

| | | |
|--------------------------------------|---|----------|
| CAS: 106-97-8 EINECS: 203-448-7 | butane F+; R 12 | 25-50% |
| CAS: 64742-49-0 EINECS: 265-151-9 | Naphtha (petroleum), hydrotreated light Xn, Xi, F, N; R 11-38-51/53-65-67 | 10 - 19% |

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| | | |
|--------------------------------------|--|---------|
| CAS: 74-98-6 EINECS: 200-827-9 | propane  F+; R 12 | 5 - 15% |
| CAS: 67-63-0 EINECS: 200-661-7 | propan-2-ol  Xi,  F; R 11-36-67 | 8 - 12% |
| CAS: 67-64-1 EINECS: 200-662-2 | acetone  Xi,  F; R 11-36-66-67 | 3 - 6% |
| CAS: 13475-82-6 EINECS: 236-757-0 | Isododekan  Xn; R 10-65-66-67 | 3 - 8% |
| CAS: 1330-20-7 EINECS: 215-535-7 | xylene  Xn,  Xi; R 10-20/21-38 | 1 - 3% |
| CAS: 75-28-5 EINECS: 200-857-2 | isobutane  F+; R 12 | 2 - 6% |
| CAS: 51-03-6 EINECS: 200-076-7 | 2-(2-butoxyethoxy)ethyl 6-propylpiperonylether  N; R 51/53 | <1.5% |
| CAS: 52645-53-1 EINECS: 258-067-9 | permethrin (ISO)  Xn,  Xi,  N; R 20/22-43-50/53 | < 1% |
| CAS: 110-54-3 EINECS: 203-777-6 | n-hexane  Xn,  Xi,  F,  N; R 11-38-48/20-62-51/53-65-67 | < 1% |
| CAS: 8003-34-7 EINECS: 232-319-8 | Pyrethrins and Pyrethroids  N; R 50/53 | <1% |

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· **General information:**

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** Do not induce vomiting; call for medical help immediately.

5 Fire-fighting measures

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards caused by the substance, its products of combustion or resulting gases:**

Risk of bursting in case of fire heat

Toxic pyrolysis products

· **Protective equipment:** Wear fully protective suit.

· **Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

· **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Avoid contact with skin / eyes and inhalation.

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- **Measures for environmental protection:**
Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
- **Measures for cleaning/collecting:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Avoid inhalation and contact with the skin and the eyes.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray onto a naked flame or any incandescent material.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidizing agents.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **Recommended storage temperature:** 15 - 35°C, max. 50°C

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

106-97-8 butane

| | |
|-----|---|
| WEL | Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene) |
|-----|---|

67-63-0 propan-2-ol

| | |
|-----|--|
| WEL | Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm |
|-----|--|

67-64-1 acetone

| | |
|-----|--|
| WEL | Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm |
|-----|--|

1330-20-7 xylene

| | |
|-----|--|
| WEL | Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV |
|-----|--|

110-54-3 n-hexane

| | |
|-----|--|
| WEL | Long-term value: 72 mg/m ³ , 20 ppm |
|-----|--|

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.

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- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**
- **Material of gloves** If contamination is possible, use gloves made of nitrile according EN 374
- **Penetration time of glove material** > 480 min / 0,4 mm thickness
- **Eye protection:** Not required.

9 Physical and chemical properties

· General Information

| | |
|----------------|------------|
| Form: | Aerosol |
| Colour: | Colourless |
| Odour: | lemon-like |

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: -44°C

· **Flash point:** Not applicable, as aerosol.

· **Ignition temperature:** 250°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Risk of bursting at temperatures > 50°C. Damage of the container may lead to the formation of explosive mixtures of gas/vapors with air.

· Explosion limits:

| | |
|------------------------|---------------|
| Lower: | 0.8 Vol % |
| Upper: | 12.0 Vol % |
| Pressure (20°C) | 3,0 - 5,0 bar |

· **Density at 20°C:** ca. 0.629 g/cm³

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Solvent content:

| | |
|--------------------------|------------|
| Organic solvents: | ca. 40.5 % |
| VOC (EC) | ca. 98 % |

· **Additional information** Vapors are heavier than air.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** Risk of bursting at temperatures >50°C.
- **Dangerous reactions** By use or incidental release the formation of explosive vapor/air mixtures is possible.
- **Dangerous decomposition products:** In case of fire the formation of toxic gases is possible.
- **Additional information:** Stable for a storage time of min. 24 months

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** low irritant - no duty to declare
- **on the eye:** low

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· **Sensitization:** Sensitization possible through skin contact.

12 Ecological information

· **Ecotoxicological effects:**· **Acquatic toxicity:**

64742-49-0 Naphtha (petroleum), hydrotreated light

LC 50 / 96 h < 10 mg / l (daphnia)

· **Remark:** Very toxic for fish· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

13 Disposal considerations

· **Product:**· **Recommendation**

empty cans: material recycling

filled cans: remove in accordance with local regulations

· **European waste catalogue**

16 00 00 WASTES NOT OTHERWISE SPECIFIED IN THE LIST

16 05 00 gases in pressure containers and discarded chemicals

16 05 04 gases in pressure containers (including halons) containing dangerous substances

· **Uncleaned packaging:**· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** 2 5F Gases.
- **Danger code (Kemler):** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Hazard label:** 2.1
- **Description of goods:** 1950 AEROSOLS
- **Limited quantities (LQ) LQ2**
- **Transport category** 2
- **Tunnel restriction code** D

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· **Remarks:** Transportation as "LIMITED QUANTITIES" (LQ2) according 3.4 ADR possible.
Sole marking: UN 1950 (rhombe)
Entry in the transportation document: Transportation according chapter 3.4 ADR

· Maritime transport IMDG:



· **IMDG Class:** 2.1
· **UN Number:** 1950
· **Label** 2.1
· **Packaging group:** -
· **EMS Number:** F-D,S-U
· **Marine pollutant:** No
· **Proper shipping name:** AEROSOLS

· Air transport ICAO-TI and IATA-DGR:



· **ICAO/IATA Class:** 2.1
· **UN/ID Number:** 1950
· **Label** 2.1
· **Packaging group:** -
· **Proper shipping name:** AEROSOLS, flammable

15 Regulatory information

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:



F+ Extremely flammable
N Dangerous for the environment

· Risk phrases:

12 Extremely flammable.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

· Safety phrases:

13 Keep away from food, drink and animal feedingstuffs.
23 Do not breathe aerosol.
24/25 Avoid contact with skin and eyes.
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.
52 Not recommended for interior use on large surface areas.

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· **Special labelling of certain preparations:**

Contains permethrin (ISO). May produce an allergic reaction.

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 a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Without sufficient ventilation formation of explosive mixtures may be possible.

Keep out of the reach of children

· **National regulations:**

· **Information about limitation of use:** Employment restrictions concerning juveniles must be observed.

| Class | Share in % |
|-------|------------|
| I | ≤ 2,5 |
| NK | 25-50 |

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant R-phrases**

10 Flammable.

11 Highly flammable.

12 Extremely flammable.

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

20/22 Harmful by inhalation and if swallowed.

36 Irritating to eyes.

38 Irritating to skin.

43 May cause sensitisation by skin contact.

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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

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

62 Possible risk of impaired fertility.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.