

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

074128500

N/A

# KaVo QUATTROcare plus Spray



## Safety Data Sheet

according to the Preparation of Safety data Sheets for  
Hazardous Chemicals Code of Practice

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

#### 1.1. Product identifier

KaVo QUATTROcare plus Spray

**Product code:**

1.011.4624

1.011.5720

**Further trade names**

QUATTROcare plus Spray 2140, QUATTROcare plus Spray 2140P

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

**Use of the substance/mixture**

Lubricating agent

#### 1.3. Details of the supplier of the safety data sheet

**Manufacturer**

|                          |                                                         |                                |
|--------------------------|---------------------------------------------------------|--------------------------------|
| Company name:            | KaVo Dental GmbH                                        |                                |
| Street:                  | Bismarckring 39                                         |                                |
| Place:                   | D-88400 Biberach                                        |                                |
| Telephone:               | +49 (0) 7351 56 0                                       | Telefax: + 49 (0) 7351 56 1488 |
| e-mail:                  | sdb@kavo.com                                            |                                |
| e-mail (Contact person): | support@gefahrstoff.com                                 |                                |
| Internet:                | www.kavo.com                                            |                                |
| Responsible Department:  | Questions concerning SDB: PES-Ingenieurgesellschaft mbH |                                |

**Supplier**

|               |                          |
|---------------|--------------------------|
| Company name: | Kavo Kerr Australia      |
|               | Level 4                  |
| Street:       | 7 Eden Park Drive        |
| Place:        | Macquarie Park, NSW 2113 |

#### 1.4. Emergency telephone number:

Infotrac/GBK GmbH +61-280735031

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**UN-GHS (Rev.7)**

Hazard categories:

Aerosol: Aerosol 1

Aspiration hazard: Asp. Tox. 1

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

May be fatal if swallowed and enters airways.

#### 2.2. Label elements

**UN-GHS (Rev.7)**

**Signal word:** Danger

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### Pictograms:



### Hazard statements

|      |                                               |
|------|-----------------------------------------------|
| H222 | Extremely flammable aerosol.                  |
| H229 | Pressurised container: May burst if heated.   |
| H304 | May be fatal if swallowed and enters airways. |

### Precautionary statements

|           |                                                                                                |
|-----------|------------------------------------------------------------------------------------------------|
| 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.                                                         |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor.                                         |
| P331      | Do NOT induce vomiting.                                                                        |
| P405      | Store locked up.                                                                               |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.                   |
| P501      | Dispose of waste according to applicable legislation.                                          |

### 2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

| CAS No    | Chemical name                 | Quantity    |
|-----------|-------------------------------|-------------|
| 106-97-8  | butane                        | 25 - < 50 % |
| 75-28-5   | isobutane                     | 25 - < 50 % |
| 8042-47-5 | White mineral oil (petroleum) | 10 - < 20 % |
| 74-98-6   | propane                       | 5 - < 10 %  |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

#### After inhalation

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. When in doubt or if symptoms are observed, get medical advice.

#### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

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### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Headache, Nausea, Dizziness. May cause drowsiness or dizziness. Frequently or prolonged contact with skin may cause dermal irritation.

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

Treat symptomatically. Symptoms can occur only after several hours.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder. Water mist.  
Co-ordinate fire-fighting measures to the fire surroundings.

#### **Unsuitable extinguishing media**

Full water jet.

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

Extremely flammable aerosol. Vapours can form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

In case of fire may be liberated: Gases/vapours, toxic (Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, aldehydes, carbon black)

### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Full protective suit. In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely.

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Remove persons to safety. Evacuate area. Avoid contact with skin, eyes and clothes. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Wear personal protection equipment.

### **6.2. Environmental precautions**

Do not allow uncontrolled discharge of product into the environment. Explosion risk. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

### **6.3. Methods and material for containment and cleaning up**

Ventilate affected area. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

### **6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## **SECTION 7: Handling and storage**

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### 7.1. Precautions for safe handling

#### **Advice on safe handling**

Observe instructions for use. Do not pierce or burn, even after use. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Wear personal protection equipment.

#### **Advice on protection against fire and explosion**

Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

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

#### **Requirements for storage rooms and vessels**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### **Hints on joint storage**

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Food and feedingstuffs.

#### **Further information on storage conditions**

Protect against: frost. Protect against direct sunlight. Protect from sunlight.

### 7.3. Specific end use(s)

No information 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 |
|----------|-----------|-----|-------------------|-----------|---------------|--------|
| 106-97-8 | Butane    | 600 | 1450              |           | TWA (8 h)     | WEL    |
|          |           | 750 | 1810              |           | STEL (15 min) | WEL    |

#### **Additional advice on limit values**

Occupational exposure limit values:

butane (106-97-8):

TWA: 800 ppm 1900 mg/m<sup>3</sup>

STEL: - ppm - mg/m<sup>3</sup>

propane (74-98-6):

Asphyxiant in high concentrations. (see Chapter 10 - Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment, published by Worksafe Australia)

Source: Workplace exposure standards for airborne contaminants, Publication date: 16 December 2019

### 8.2. Exposure controls



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### Appropriate engineering controls

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

### Protective and hygiene measures

Take off contaminated clothing. Draw up and observe skin protection programme. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Do not breathe gas/fumes/vapour/spray.

### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.

### Hand protection

Wear suitable gloves.

Protect skin by using skin protective cream.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Protect skin by using skin protective cream.

Suitable material: NBR (Nitrile rubber)

Breakthrough time (maximum wearing time) 480 min. Thickness of the glove material: 0,45 mm

### Skin protection

Wear suitable gloves. Flame-retardant protective clothing. Wear anti-static footwear and clothing. Wear suitable protective clothing.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Respiratory protection necessary at: exceeding exposure limit values.

Suitable respiratory protection apparatus:

Filtering device with filter or ventilator filtering device of type: AX

Observe the wear time limits as specified by the manufacturer.

### Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment. Explosion risk. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |                |
|-----------------|----------------|
| Physical state: | Aerosol        |
| Colour:         | light yellow   |
| Odour:          | characteristic |

#### Test method

|           |                          |
|-----------|--------------------------|
| pH-Value: | not determined DIN 19268 |
|-----------|--------------------------|

#### Changes in the physical state

|                                                           |                |
|-----------------------------------------------------------|----------------|
| Melting point:                                            | not determined |
| Boiling point or initial boiling point and boiling range: | -40 °C         |
| Flash point:                                              | -80 °C         |

#### Flammability

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Solid: not applicable

Gas: not applicable

### Explosive properties

Heating may cause an explosion. Vapours can form explosive mixtures with air.

Lower explosion limits: 0,9 vol. %

Upper explosion limits: 15 vol. %

### Self-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

### Oxidizing properties

Not oxidising.

Vapour pressure: not determined

Density (at 20 °C): 0,853 g/cm<sup>3</sup> DIN 51757

Water solubility: The study does not need to be conducted  
because the substance is known to be  
insoluble in water.

### Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Relative vapour density: not determined

Evaporation rate: not determined

### 9.2. Other information

Odour threshold: not determined.

Relative density, Colour, Odour, Viscosity, pH: Data apply to the technically active substance.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Extremely flammable aerosol.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Vapours can form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Protect against direct sunlight.

Protect against: Frost. Take precautionary measures against static discharges.

### 10.5. Incompatible materials

Oxidizing agent. Pyrophoric or self-heating substances.

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Gases/vapours, toxic (Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, aldehydes,

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carbon black)

### Further information

Do not mix with other chemicals.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

| CAS No    | Chemical name                 |                   |         |              |        |
|-----------|-------------------------------|-------------------|---------|--------------|--------|
|           | Exposure route                | Dose              | Species | Source       | Method |
| 8042-47-5 | White mineral oil (petroleum) |                   |         |              |        |
|           | oral                          | LD50 > 5000 mg/kg | Rat     | Manufacturer |        |
|           | dermal                        | LD50 > 2000 mg/kg | Rabbit  | Manufacturer |        |
|           | inhalation (4 h) aerosol      | LC50 > 5000 mg/l  | Rat     | Manufacturer |        |

#### Irritation and corrosivity

Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

May be fatal if swallowed and enters airways.

#### Practical experience

#### Other observations

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.

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| CAS No    | Chemical name                 |               |           |         |                                   |              |
|-----------|-------------------------------|---------------|-----------|---------|-----------------------------------|--------------|
|           | Aquatic toxicity              | Dose          | [h]   [d] | Species | Source                            | Method       |
| 8042-47-5 | White mineral oil (petroleum) |               |           |         |                                   |              |
|           | Acute fish toxicity           | LC50<br>mg/l  | > 100     | 96 h    | Brachydanio rerio<br>(zebra-fish) | Manufacturer |
|           | Acute algae toxicity          | ErC50<br>mg/l | > 100     | 72 h    | Desmodesmus<br>subspicatus        | Manufacturer |
|           | Acute crustacea toxicity      | EC50<br>mg/l  | > 100     | 48 h    | Daphnia magna (Big<br>water flea) | Manufacturer |

### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

| CAS No    | Chemical name                 | Log Pow |
|-----------|-------------------------------|---------|
| 106-97-8  | butane                        | 1,09    |
| 75-28-5   | isobutane                     | 1,09    |
| 8042-47-5 | White mineral oil (petroleum) | > 3,5   |
| 74-98-6   | propane                       | 1,09    |

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Other adverse effects

No information available.

### Further information

Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

### Land transport (ADG)

|                                          |                        |
|------------------------------------------|------------------------|
| <u>14.1. UN number:</u>                  | UN 1950                |
| <u>14.2. UN proper shipping name:</u>    | AEROSOLS               |
| <u>14.3. Transport hazard class(es):</u> | 2                      |
| <u>14.4. Packing group:</u>              | -                      |
| Special Provisions:                      | 63 190 277 327 344 381 |
| Limited quantity:                        | 1 L                    |
| Excepted quantity:                       | E0                     |

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### Other applicable information (land transport)

HAZCHEM: - HIN (1)

### Marine transport (IMDG)

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1



Special Provisions: 63, 190, 277, 327, 344, 381, 959  
Limited quantity: 1000 mL  
Excepted quantity: E0  
EmS: F-D, S-U

### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS, FLAMMABLE  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1



Special Provisions: A145 A167 A802  
Limited quantity Passenger: 30 kg G  
Passenger LQ: Y203  
Excepted quantity: E0  
IATA-packing instructions - Passenger: 203  
IATA-max. quantity - Passenger: 75 kg  
IATA-packing instructions - Cargo: 203  
IATA-max. quantity - Cargo: 150 kg

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

Warning: Flammable gases.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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### National regulatory information

AICS (AICIS/NICNAS):

CAS No. 75-28-5: Yes. (IMAP tier I assessment: available)

CAS No. 8042-47-5: Yes. (IMAP tier I assessment: available)

CAS No. 74-98-6: Yes. (IMAP tier I assessment: available)

CAS No. 106-97-8: Yes. (IMAP tier I assessment: available)

SUSMP:

CAS No. 75-28-5: No.

CAS No. 8042-47-5: No.

CAS No. 74-98-6: No.

CAS No. 106-97-8: No.

Observe in addition any national regulations!

### SECTION 16: Other information

#### Abbreviations and acronyms

ADG: Australian Dangerous Goods

AICS: Australian Inventory of Chemical Substances

AICIS: Australian Industrial Chemicals Introduction Scheme

NICNAS: National Industrial Chemicals Notification and Assessment Scheme

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

NICNAS: National Industrial Chemicals Notification and Assessment Scheme

SETEL: Short Term Exposure Limits

TWA: Time-Weighted Average

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*