

# QUATTROcare plus Spray

## AMERICA 2141

### Safety Data Sheet

according to WHMIS

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Revision date: 17.01.2020

#### 1. Identification

##### Product identifier

QUATTROcare plus Spray AMERICA 2141

##### **Product code:**

1.005.3844

1.005.4524

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

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

Lubricating agent

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

|                          |   |                                |
|--------------------------|---|--------------------------------|
| 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 |                                |

**Emergency telephone number:** +49 (0) 7351 56 4000 (24 h)

#### 2. Hazard identification

##### Classification of the substance or mixture

##### **WHMIS 2015**

Aerosol: Aerosol 1

Gases under pressure: Compressed gas

Aspiration hazard: Asp. Tox. 1

##### Label elements

##### **WHMIS 2015**

**Signal word:** Danger

**Pictograms:**



##### **Hazard statements**

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

May be fatal if swallowed and enters airways.

##### **Precautionary statements**

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

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Do NOT induce vomiting.

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Store in a well-ventilated place.  
 Store locked up.  
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
 Dispose of waste according to applicable legislation.

**Other hazards**

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

### 3. Composition/information on ingredients

**Mixtures****Hazardous components**

| CAS No    | Chemical name                 | Quantity       |
|-----------|-------------------------------|----------------|
| 106-97-8  | butane                        | 15 - < 40% (*) |
| 75-28-5   | isobutane                     | 15 - < 40% (*) |
| 8042-47-5 | White mineral oil (petroleum) | 10 - < 30% (*) |
| 74-98-6   | propane                       | 5 - < 10% (*)  |

(\*) The actual concentration is withheld as a trade secret.

### 4. First-aid measures

**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.

**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!

**Most important symptoms and effects, whether acute or delayed**

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

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

Treat symptomatically. Symptoms can occur only after several hours.

### 5. Fire-fighting measures

**Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder. Water mist.

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Co-ordinate fire-fighting measures to the fire surroundings.

#### **Unsuitable extinguishing media**

Full water jet.

#### **Specific hazards arising from the hazardous product**

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)

#### **Special protective equipment and precautions for fire-fighters**

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

## **6. Accidental release measures**

#### **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.

#### **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.

#### **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.

#### **Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## **7. Handling and storage**

#### **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.

##### **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.

#### **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,

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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.

### 8. Exposure controls/Personal protection

#### Control parameters

#### Exposure limits (ACGIH)

| CAS No   | Chemical name     | ppm  | mg/m <sup>3</sup> | F/ml | Category      | Origin     |
|----------|-------------------|------|-------------------|------|---------------|------------|
| 75-28-5  | Butane: isobutane | -    | -                 |      | TWA (8 h)     | ACGIH-2019 |
|          |                   | 1000 |                   |      | STEL (15 min) | ACGIH-2019 |
| 106-97-8 | Butane: n-butane  | -    | -                 |      | TWA (8 h)     | ACGIH-2019 |
|          |                   | 1000 |                   |      | STEL (15 min) | ACGIH-2019 |
| 74-98-6  | Propane           | -    | -                 |      | Asphyxiant    | ACGIH-2019 |

#### Exposure controls



#### 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. EN ISO 374

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.

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

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vapours/dusts/aerosols. Respiratory protection necessary at: exceeding exposure limit values.  
 Suitable respiratory protection apparatus: Combination filtering device (EN 14387)  
 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.

## 9. Physical and chemical properties

### 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 |
| Initial boiling point and boiling range: | -40 °C         |
| Flash point:                             | -80 °C         |

#### Flammability

|        |                |
|--------|----------------|
| Solid: | not applicable |
| Gas:   | not applicable |

#### Explosive properties

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

|                         |            |
|-------------------------|------------|
| Lower explosive limits: | 0,9 vol. % |
| Upper explosive limits: | 15 vol. %  |

#### Auto-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: | not determined |
|------------------------|----------------|

|                      |                |
|----------------------|----------------|
| Viscosity / dynamic: | not determined |
|----------------------|----------------|

|                        |                |
|------------------------|----------------|
| Viscosity / kinematic: | not determined |
|------------------------|----------------|

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Vapour density: not determined

Evaporation rate: not determined

**Other information**

Odour threshold: not determined.

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

**10. Stability and reactivity****Reactivity**

Extremely flammable aerosol.

**Chemical stability**

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

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

**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.

**Incompatible materials**

Oxidizing agent. Pyrophoric or self-heating substances.

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

Do not mix with other chemicals.

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

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

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

**Irritation and corrosivity**

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

**Sensitizing effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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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.

#### **Name of toxicologically synergistic products**

No information available.

## 12. Ecological information

### **Ecotoxicity**

The product is not: Ecotoxic.

### **Persistence and degradability**

The product has not been tested.

### **Bioaccumulative potential**

The product has not been tested.

### **Mobility in soil**

The product has not been tested.

### **Other adverse effects**

No information available.

### **Further information**

Avoid release to the environment.

## 13. Disposal considerations

### **Waste treatment methods**

#### **Advice on disposal**

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.

## 14. Transport information

### **Canadian TDG**

|                                     |          |
|-------------------------------------|----------|
| <b><u>UN/ID number:</u></b>         | UN 1950  |
| <b><u>Proper shipping name:</u></b> | AEROSOLS |
| <b><u>Hazard classes:</u></b>       | 2.1      |
| Hazard label:                       | 2.1      |
| Limited quantity:                   | 1 L      |

### **Marine transport (IMDG)**

|  |          |
|--|----------|
| <b><u>UN number:</u></b>                           | UN 1950  |
| <b><u>United Nations proper shipping name:</u></b> | AEROSOLS |
| <b><u>Transport hazard class(es):</u></b>          | 2.1      |

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**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)

**UN number:** UN 1950  
**United Nations proper shipping name:** AEROSOLS, FLAMMABLE  
**Transport hazard class(es):** 2.1  
**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

#### Environmental hazards

**ENVIRONMENTALLY HAZARDOUS:** no

### 15. Regulatory information

#### Canadian regulations

##### DSL/NDSL inventory status

**DSL / LIS:**  
 butane: Yes.  
 isobutane: Yes.  
 White mineral oil (petroleum): Yes.  
 propane: Yes.

**NDSL / LES:**  
 butane: No.  
 isobutane: No.  
 White mineral oil (petroleum): No.  
 propane: No.

##### National Pollutant Release Inventory (NPRI)

butane: No.



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isobutane: No.  
White mineral oil (petroleum): Yes.  
propane: Yes.

#### 16. Other information

##### Changes

This data sheet contains changes from the previous version in section(s): 1,3,4,5,6,7,8,9,10,11,12,13,14,15.

##### Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists  
 DSL: Domestic Substances List  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 ICAO: International Civil Aviation Organization  
 DGR: Dangerous Goods Regulations  
 TI: Technical Instructions  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 CAS: Chemical Abstracts Service  
 LES: Liste extérieure des substances  
 LIS: Liste intérieure des substances  
 NDSL: Non-Domestic Substances List  
 SIMDUT: Système d'information sur les matières dangereuses utilisées au travail  
 STEL: Short-term exposure limit  
 TDG: Transportation of Dangerous Goods  
 TMD: Transport des marchandises dangereuses  
 TWA: time-weighted average  
 WHMIS: Workplace Hazardous Materials Information System  
 UN: United Nations  
 ATE: Acute toxicity estimate  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%  
 LL50: Lethal loading, 50%  
 EL50: Effect loading, 50%  
 EC50: Effective Concentration 50%  
 ErC50: Effective Concentration 50%, growth rate  
 NOEC: No Observed Effect Concentration  
 BCF: Bio-concentration factor  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container

##### 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.)*