This SDS packet was issued with item:
070373266

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

070398388 074128500 273030094
1.1. Product identifier

QUATTROcare plus Spray AMERICA 2141

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

1.3. Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Company name:</th>
<th>KaVo Dental GmbH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street:</td>
<td>Bismarckring 39</td>
</tr>
<tr>
<td>Place:</td>
<td>D-88400 Biberach/Riß</td>
</tr>
<tr>
<td>Telephone:</td>
<td>+49 (0) 7351 56-0</td>
</tr>
<tr>
<td>Telefax:</td>
<td>+49 (0) 7351 56-1488</td>
</tr>
<tr>
<td>e-mail:</td>
<td><a href="mailto:info@kavo.com">info@kavo.com</a></td>
</tr>
<tr>
<td>Internet:</td>
<td><a href="http://www.kavo.de">www.kavo.de</a></td>
</tr>
</tbody>
</table>

1.4. Emergency telephone number:

+ 49 (0) 30 / 30 686 790 (Poison Centre Berlin)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: F+ - Extremely flammable

R phrases:

F+ - Extremely flammable

2.2. Label elements

<table>
<thead>
<tr>
<th>Danger symbols:</th>
<th>F+ - Extremely flammable</th>
</tr>
</thead>
</table>

2.3. Special labelling of certain mixtures

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. Keep out of the reach of children.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Never give anything by mouth to an unconscious person or a person with cramps. Remove persons to safety.

After inhalation
Provide fresh air.

After contact with skin
Wash with plenty of water. Change contaminated clothing.

After contact with eyes
Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion
Rinse mouth immediately and drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed
Headache, nausea, dizziness, fatigue, skin irritation

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Carbon dioxide (CO2). Foam. Extinguishing powder.

Unsuitable extinguishing media
Full water jet

5.2. Special hazards arising from the substance or mixture
Combustible. Vapours may form explosive mixtures with air.

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus.

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.
6.2. Environmental precautions
Do not allow uncontrolled discharge of product into the environment. Explosion hazard.

6.3. Methods and material for containment and cleaning up
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.

6.4. Reference to other sections
See chapter 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Dust must be exhausted directly at the point of origin. When using do not eat, drink, smoke, sniff.

Advice on protection against fire and explosion
Do not spray on naked flames or any incandescent material. Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Vapours may form explosive mixtures with air.

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 sources of ignition. - No smoking.

Advice on storage compatibility
Do not store together with: Material, rich in oxygen, oxidizing.

Further information on storage conditions
Protect from frost. Protect against direct sunlight.

7.3. Specific end use(s)
No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>8042-47-5</td>
<td>White mineral oil (petroleum)</td>
<td>5</td>
<td>5</td>
<td></td>
<td>TWA (8 h)</td>
<td>TWA</td>
</tr>
<tr>
<td>106-97-8</td>
<td>Butane</td>
<td>600</td>
<td>1450</td>
<td></td>
<td>STEL (15 min)</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>750</td>
<td>1810</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

Additional advice on limit values
a no restriction
b End of exposure or shift
c in long-term exposure: after several shifts
d prior to next shift

TWA (EC): time-weighted average
U: Urea

8.2. Exposure controls
### Protective and hygiene measures
Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

### Eye/face protection
Suitable eye protection: Tightly sealed safety glasses.

### Hand protection
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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.

Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480min
Thickness of the glove material 0.45 mm

### Skin protection
No special measures are necessary.

### Respiratory protection
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Suitable respiratory protective equipment: Combination filter device (DIN EN 141).
Filtering device with filter or ventilator filtering device of type: AX

### SECTION 9: Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Aerosol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>slightly yellow</td>
</tr>
<tr>
<td>Odour:</td>
<td>characteristic</td>
</tr>
<tr>
<td>pH-Value (at 20 °C):</td>
<td>not applicable</td>
</tr>
<tr>
<td>Changes in the physical state</td>
<td></td>
</tr>
<tr>
<td>Melting point:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>-40 °C</td>
</tr>
<tr>
<td>Sublimation point:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Softening point:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flash point:</td>
<td>-80 °C</td>
</tr>
<tr>
<td>Lower explosion limits:</td>
<td>1 vol. %</td>
</tr>
<tr>
<td>Upper explosion limits:</td>
<td>11 vol. %</td>
</tr>
<tr>
<td>Ignition temperature:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Density (at 20 °C):</td>
<td>0.853 g/cm³ DIN 51757</td>
</tr>
<tr>
<td>Bulk density:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Water solubility:</td>
<td>insoluble</td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity / dynamic:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity / kinematic:</td>
<td>15,5 mm²/s</td>
</tr>
<tr>
<td>Flow time:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapour density:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>No information available.</td>
</tr>
</tbody>
</table>
9.2. Other information

Solid content: No information available.

density: Data apply to technical substance.

pressure: ca. 4.3 bar (20°C)

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with: Oxidising agent

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No information available.

Further information

Do not mix with other chemicals.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure routes</th>
<th>Method</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>8042-47-5</td>
<td>White mineral oil (petroleum)</td>
<td>oral</td>
<td>LD50</td>
<td>&gt; 5000</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 2000</td>
<td>Rabbit</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) aerosol</td>
<td>LC50</td>
<td>&gt;5000 mg/l</td>
<td>Rat</td>
<td></td>
</tr>
</tbody>
</table>
No indications of human reproductive toxicity exist.

**Specific effects in experiment on an animal**

No information available.

**Additional information on tests**

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

### SECTION 12: Ecological information

#### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Aquatic toxicity</th>
<th>Method</th>
<th>Dose</th>
<th>h</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil (petroleum)</td>
<td>8042-47-5</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>&gt; 100 mg/l</td>
<td>96 h</td>
<td>Brachydanio rerio (zebra-fish)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>&gt; 100 mg/l</td>
<td>72 h</td>
<td>Desmodesmus subspicatus.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>&gt; 100 mg/l</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

There are no data available on the mixture itself.

#### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Partition coefficient n-octanol/water</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil (petroleum)</td>
<td>8042-47-5</td>
<td>&gt; 3,5</td>
<td></td>
</tr>
</tbody>
</table>

#### 12.4. Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

#### 12.6. Other adverse effects

No information available.

### Further information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Advice on disposal**

Dispose of waste according to applicable legislation.

**Waste disposal number of waste from residues/unused products**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances

Classified as hazardous waste.

**Waste disposal number of used product**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances

Classified as hazardous waste.
Waste disposal number of contaminated packaging

150104  WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Water (with cleaning agent). Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:  UN1950
14.2. UN proper shipping name:  AEROSOLS
14.3. Transport hazard class(es):  2
   Hazard label:  2.1
   Classification code:  5F
   Special Provisions:  190 327 344 625
   Limited quantity:  1 L
   Transport category:  2
   Tunnel restriction code:  D

Other applicable information (land transport)

Limited quantity: E0

Inland waterways transport (ADN)

14.1. UN number:  UN1950
14.2. UN proper shipping name:  AEROSOLS
14.3. Transport hazard class(es):  2
   Hazard label:  2.1
   Classification code:  5F
   Special Provisions:  190 327 344 625
   Limited quantity:  1 L

Other applicable information (inland waterways transport)

Limited quantity: E0

Marine transport (IMDG)

14.1. UN number:  UN1950
14.2. UN proper shipping name:  AEROSOLS
14.3. Transport hazard class(es):  2
14.4. Packing group:  -
   Hazard label:  2, see SP63
   Special Provisions:  63, 190, 277, 327, 344, 959
   Limited quantity:  See SP277
   EmS:  F-D, S-U

Other applicable information (marine transport)

Limited quantity: E0

Air transport (ICAO)

14.1. UN number:  UN1950
14.2. UN proper shipping name:  AEROSOLS, flammable
14.3. Transport hazard class(es):  2.1
   Hazard label:  2.1
SECTION 15: Regulatory information

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

EU regulatory information
1999/13/EC (VOC): VOC-CH: 0,197 kg/500ml Dose (59,82 % w/w)
VOC 1999/13/EG: 59,82 % w/w

Additional information
Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
Information according to 1999/13/EC about limitation of emissions of volatile organic compounds
(VOC-guideline).

National regulatory information
Water contaminating class (D): 1 - slightly water contaminating

SECTION 16: Other information

Abbreviations and acronyms
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
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 (division of the American Chemical Society)
DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level
WEL (UK): Workplace Exposure Limits
TWA (EC): Time-Weighted Average
ATE: Acute Toxicity Estimate
STEL (EC) Short Term Exposure Limit
LC50: Lethal Concentration
EC50: half maximal Effective Concentration
ErC50: means EC50 in terms of reduction of growth rate

Full text of R phrases referred to under Sections 2 and 3
12 Extremely flammable.

Full text of H statements referred to under Sections 2 and 3
H304 May be fatal if swallowed and enters airways.

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.)