

# SAFETY DATA SHEETS

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

074128500

N/A



## Safety Data Sheet

KaVo. Dental Excellence.

according to WHMIS

### KaVo QUATTROcare plus Spray North America - Canada

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

##### Product identifier

KaVo QUATTROcare plus Spray North America - Canada

##### Product code:

1.005.3844

1.005.4524

##### Further trade names

QUATTROcare plus Spray AMERICA+CANADA, KaVo Spray 2141, KaVo Spray 2141P

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

##### Use of the substance/mixture

The product is intended for professional use.

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

Company name:	Kaltenbach & Voigt 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	
Internet:	<a href="http://www.kavo.com/">http://www.kavo.com/</a>	

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

#### SECTION 2: Hazards identification

##### Classification of the substance or mixture

Hazard categories:  
Aerosol: Aerosol 1  
Hazard Statements:  
Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated.

##### Label elements

**Signal word:** Danger

##### **Pictograms:**



##### **Hazard statements**

Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated.

##### **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.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

##### Other hazards

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

#### SECTION 3: Composition/information on ingredients

##### Mixtures



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### Hazardous components

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

## SECTION 4: First aid measures

### 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. Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

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

#### After ingestion

Rinse mouth immediately and drink plenty of water. Observe risk of aspiration if vomiting occurs.

### Most important symptoms and effects, both acute and delayed

Headache, nausea, dizziness, fatigue, skin irritation

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing media

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

#### Unsuitable extinguishing media

Full water jet.

### Special hazards arising from the substance or mixture

Extremely flammable. Vapours can form explosive mixtures with air.

### 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

### Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation.

### Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

### 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.



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#### Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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

##### **Precautions for safe handling**

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

Do not pierce or burn, even after use.

###### **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.

##### **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.

###### **Advice on storage compatibility**

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

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

Protect from frost. Protect against direct sunlight.

#### **SECTION 8: Exposure controls/personal protection**

##### Control parameters

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

- a no restriction
- b End of exposure or end of shift
- c at long term exposure: after several previous shifts
- d before next shift

TWA (EC): time-weighted average

Y: A risk of reproductive effects needs not to be feared if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept

Z: A risk of reproductive effects cannot to be excluded if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept

Urine (U)

Whole blood (B)

##### Exposure controls

###### **Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

###### **Eye/face protection**

Wear eye/face protection.

###### **Hand protection**

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.

###### **Skin protection**

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



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### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state: liquid (Aerosol)  
Colour: light yellow  
Odour: characteristic

### Test method

pH-Value (at 20 °C): not determined DIN 19268

### Changes in the physical state

Melting point: not determined  
Initial boiling point and boiling range: - 40 °C  
Sublimation point: No information available.  
Softening point: No information available.  
Flash point: - 80 °C

### Flammability

Solid: not applicable  
Gas: not applicable

### Explosive properties

Vapours can form explosive mixtures with air.

Lower explosion limits: 1 vol. %  
Upper explosion limits: 11 vol. %  
Ignition temperature: No information available.

### Auto-ignition temperature

Solid: not applicable  
Gas: not applicable

Decomposition temperature: not determined

### Oxidizing properties

Not oxidizing.

Vapour pressure: not determined

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

Bulk density: No information available.

Water solubility: insoluble

### Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: No information available.

Viscosity / kinematic: 15,5 mm<sup>2</sup>/s

Vapour density: not determined

Evaporation rate: not determined

### Other information

Density: Data apply to the technically active substance.  
pressure: - bar (20°C)



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Odour threshold: not determined

### SECTION 10: Stability and reactivity

#### Reactivity

Extremely flammable, Ignition hazard.

#### **Chemical stability**

The product is stable under storage at normal ambient temperatures.

#### **Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.  
Vapours can form explosive mixtures with air.

#### **Incompatible materials**

No information available.

#### **Hazardous decomposition products**

No known hazardous decomposition products.

#### **Further information**

Do not mix with other chemicals.

### SECTION 11: Toxicological information

#### Information on toxicological effects

##### **Acute toxicity**

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

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

##### **STOT-single exposure**

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

##### **Severe effects after repeated or prolonged exposure**

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.

No indication of human carcinogenicity.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

##### **Aspiration hazard**

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

##### **Specific effects in experiment on an animal**

No information available.

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

No known symptoms to date.



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#### SECTION 12: Ecological information

##### Toxicity

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

No special environmental measures are necessary.

#### SECTION 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**

Completely emptied packages can be recycled.

#### SECTION 14: Transport information

##### Canadian TDG

<u>UN/ID number:</u>	UN 1950
<u>Proper shipping name:</u>	Aerosol, flammable
<u>Hazard classes:</u>	2.1
Hazard label:	2.1
Limited quantity:	1

##### Marine transport (IMDG)

<u>UN number:</u>	UN 1950
<u>UN proper shipping name:</u>	AEROSOLS
<u>Transport hazard class(es):</u>	2.1
<u>Packing group:</u>	-
Hazard label:	2.1



Limited quantity:	1000 mL
Excepted quantity:	E0
EmS:	F-D, S-U

##### Air transport (ICAO)

<u>UN number:</u>	UN 1950
<u>UN proper shipping name:</u>	AEROSOLS, flammable
<u>Transport hazard class(es):</u>	2.1
<u>Packing group:</u>	-




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Hazard label:	2.1
	
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

### SECTION 15: Regulatory information

#### Canadian regulations

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

#### **DSL/NDSL inventory status**

Substance/product listed in the following inventories: DSL/NDSL

DSL:

White mineral oil (petroleum): Yes.

butane: Yes.

isobutane: Yes.

propane: Yes.

NDSL:

White mineral oil (petroleum): No.

butane: No.

isobutane: No.

propane: No.

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

Name - Nom: Butane (all isomers - tous les isomères)

Gazette Notice Number (English): 326 - No dans l'avis de la Gazette (français): 329

NPRI Part # (Threshold Category) - No partie INRP (catégorie de seuil): 5

Mass Threshold: 1 tonne of 10-tonne total VOC air release

Seuil quantitatif: 1 tonne de 10 tonnes de COV totaux rejetées dans l'air

### SECTION 16: Other information

#### **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.