



Safety Data Sheet

KaVo. Dental Excellence.

according to WHMIS

KaVo QUATTROcare plus Spray North America - Canada

Page 1 of 7

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: <http://www.kavo.com/>

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



Safety Data Sheet

KaVo. Dental Excellence.

according to WHMIS

KaVo QUATTROcare plus Spray North America - Canada

Page 2 of 7

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 (CO₂), 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.



Safety Data Sheet

KaVo. Dental Excellence.

according to WHMIS

KaVo QUATTROcare plus Spray North America - Canada

Page 3 of 7

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



Safety Data Sheet

KaVo. Dental Excellence.

according to WHMIS

KaVo QUATTROcare plus Spray North America - Canada

Page 4 of 7

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

pH-Value (at 20 °C):	not determined	Test method 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 ³	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 ² /s
------------------------	-------------------------

Vapour density:	not determined
-----------------	----------------

Evaporation rate:	not determined
-------------------	----------------

Other information

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



Safety Data Sheet

KaVo. Dental Excellence.

according to WHMIS

KaVo QUATTROcare plus Spray North America - Canada

Page 5 of 7

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				
	Exposure routes	Method	Dose	Species	Source
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.



Safety Data Sheet

KaVo. Dental Excellence.

according to WHMIS

KaVo QUATTROcare plus Spray North America - Canada

Page 6 of 7

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>	-



Safety Data Sheet

KaVo. Dental Excellence.

according to WHMIS

KaVo QUATTROcare plus Spray North America - Canada

Page 7 of 7

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.