



1 EC safety data sheet in accordance with Directive 2001/58/EC

Issue 03 of 2009-09-24

1. MATERIAL, PREPARATION AND COMPANY ID

1.1. Name of the material or preparation
KaVo CleanOil 2025
Versions:
<ul style="list-style-type: none"> ▪ Container with 2.5 l (Mat. no. 0.411.7570) ▪ Container with 20 l (Mat. no. 0.489.3459)

1.2. Use of the material or preparation
Care product for KaVo instruments (handpieces and contra-angle handpieces), turbines and pneumatic motors according to the rotation principle in connection with the KaVo spray rotor "Clinic".

1.3. Company name	Distributors in Switzerland (only for Switzerland):
Kaltenbach & Voigt GmbH Bismarckring 39 D-88400 Biberach Tel.: + 49 7351 56-0 Fax: + 49 7351 56-1488 Contact for information: Person in charge of safety for medical devices	KaVo Dental AG Steinbruchstr. 11 Postfach 5200 Brugg 3 Tel.: + 41 56 460 78 7 Fax: + 41 56 460 78 79

2. COMPOSITION/INFORMATION ON COMPONENTS

- Paraffin oil with active ingredients
- Dissolved in organic solvents

Components requiring identification	CAS No.	EINECS No.	Mass content	Symbol	R phrases
C(9-12)-Isoalkane	90622-57-4	292-459-0	1 - <10 %	Xn	R10, R65, R66
2-Propanol	67-63-0	200-661-7	1 - <10 %	F, Xi	R11, R36, R67

3. POSSIBLE HAZARDS

Risk phrase:

- Flammable
- Preparation is rated hazardous according to Directive 1999/45/EC.

Additional hazard instructions for people and the environment:

- Explosive air/vapour mixtures may form.

4. FIRST AID

After inhalation	▶ Supply fresh air.
	▶ If symptoms remain, consult a doctor and bring the safety data sheet/label.
After skin contact	▶ Wash immediately with soap and water and rinse thoroughly.
	▶ Apply skin care cream.
	▶ Remove any clothing that has been splashed.
After eye contact	▶ Keep eyes open and rinse them for several minutes with running water.
	▶ Remove any contact lenses.
	▶ If symptoms remain, consult a doctor and bring the safety data sheet/label.
After swallowing	▶ Drink plenty of water immediately.
	▶ Do not induce vomiting.
	▶ Consult a doctor and keep the safety data sheet/label to hand.

5. FIREFIGHTING MEASURES

Suitable extinguishing agents	<ul style="list-style-type: none"> ▪ Foam ▪ Dry powder ▪ Carbon dioxide ▪ Water spray jet
	▶ Fight a large fire with a water spray jet or alcohol-resistant foam.
Unsuitable extinguishing agents	▶ Do not use full water jet.
Special hazards	none known
Special protective equipment	No special measures are required.

**Note**

Container must be removed from the area threatened by fire if this is possible without endangerment. Otherwise cool with water. Do not inhale vapours and smoke fumes.

6. MEASURES FOR UNINTENTIONAL RELEASE

Personal precautionary measures	▶ Keep away from sources of ignition – do not smoke.
	▶ Ensure sufficient ventilation.
	▶ Avoid inhaling vapours.
	▶ Avoid contact with eyes and skin.
Environmental measures	▶ May not enter the sewer system, surface water and/or ground water; e.g. install oil booms made of universal bonding agent
Cleaning procedure	▶ Absorb leaked product using hygroscopic material (sand, silica earth, universal binder, sawdust, wipes), as described in item 13.
	▶ Identify and dispose of leaky containers, as described in item 13.

7. HANDLING AND STORAGE**7.1. Handling**

- ▶ Keep away from sources of ignition – do not smoke.
- ▶ Only use in well-ventilated areas.
- ▶ Ensure extractor unit at the workplace, if natural ventilation is not sufficient.
- ▶ Prevent electrostatic charging.

7.2 Storage

- ▶ Store in a cool and dry place.
- ▶ Store containers in a well-ventilated place.
- ▶ Do not store near doorways, in passages, stairwells or generally accessible corridors.

7.2 Storage	
▶	Keep containers tightly closed.
▶	Observe official regulations (national: Ordinance on Industrial Safety and Health).
▶	Respect maximum storage times in accordance with printed instructions.

7.3. Specified use	
▶	Use only for intended purpose.
See also: Processing instructions	

8. RESTRICT EXPOSURE AND WEAR PERSONAL PROTECTIVE GEAR

8.1. Exposure threshold	
Workplace thresholds:	<ul style="list-style-type: none"> ▪ C(9-12)-Isoalkane: 1000 mg/m³, 200 ppm ▪ 2-Propanol: 500 mg/m³, 200 ppm ▪ 1-Methoxy-2 propanol): 370 mg/m³, 100 ppm



Note

The indicated limits agree with TRGS 900 (EH40/2002 Occupational Exposure Limits 2002) and can be checked with industrial hygiene measurements. Exposure is limited during proper use; it is therefore not anticipated that the workplace threshold will be reached.

8.2. Limiting and monitoring exposure	
8.2.1. Limiting and monitoring exposure at the workplace	▶ Wash hands before breaks and at the end of the working day.
	▶ Do not eat, drink or smoke or use snuff at the workplace.
	▶ Do not store with food, drinks or animal feed.
8.2.1.1. Respiratory protection	Not necessary if the room ventilation is sufficient. ▶ If the MAC values are exceeded, wear breathing equipment with filter A (DIN EN 141).
8.2.1.2. Gloves	Not necessary if used properly. ▶ Wear protective gloves made of nitrile rubber/ nitrile latex NBR (DIN EN 374) to avoid direct skin contact.
	▶ Use protective skin cream.

8.2. Limiting and monitoring exposure	
8.2.1.3. Safety goggles	Not necessary if used properly. ▶ Wear safety glasses with closable side flaps (DIN EN 166).
8.2.1.4. Personal protective equipment	Not necessary if used properly.
8.2.2. Limiting and monitoring environmental exposure	Not necessary if used properly.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information	
Appearance	Shape: liquid Colour: yellow - clear
Odour	characteristic

9.2. Important information on health, environmental protection and safety	
pH	not applicable
Boiling point	158 - 175 °C
Flashpoint	40 °C in accordance with DIN 51757
Flammability	approx. 265 °C
Explosion hazard	The product is non-explosive, however explosive vapour/air mixtures may form. - bottom explosion limit: 0.6 vol.% - top explosion limit: 7.0 vol.%
Flammable properties	not applicable
Vapour pressure	not applicable
Relative density	0.826 g/ml at 20 °C in accordance with DIN 51757
Solubility	in water: insoluble
Distribution coefficient	not determined
Viscosity	5.39 cSt at 40 °C
Vapour density	not applicable
Evaporation speed	not applicable

9.3. Other information
none known

10. STABILITY AND REACTIVITY

10.1. Conditions to be avoided
<ul style="list-style-type: none"> ▪ Ignition sources ▪ Open flame ▪ Heat

10.2. Substances to be avoided
<ul style="list-style-type: none"> ▪ Oxidant

10.3. Hazardous decomposition products
None when used properly.

11. TOXICOLOGICAL INFORMATION

Inhalation	Inhalation can irritate mucous membrane. Long-term effect: Can damage the central nervous system.
Swallowing	Aspiration hazard. Can cause lung damage.
Skin contact	Skin contact can cause irritation of the skin and mucosa.
Eye contact	Irritation

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity
No data known
12.2. Mobility
No data known
12.3. Persistence and biodegradability
No data known
12.4. Bioaccumulation potential
No data known
12.5. Other harmful effects
Contains no AOX according to recipe. Water pollution class 1 (self rating): slightly water polluting. ▶ Do not let the product enter the sewage system/surface water.

13. DISPOSAL INSTRUCTIONS



Note

Observe local and national regulations.

Waste code according to the European waste catalog (national: Ordinance on the list of wastes AVV):



Note

Bottles must be completely emptied before disposal.
Recycle empty plastic bottles and packaging cardboard.

Product	07 04 01 Aqueous washing liquids and mother liquors
Packaging cardboard	15 01 01 Paper and cardboard packaging
Drained bottle	20 01 04 Other plastics
Leaked product that was bound with liquid-binding material	15 02 02 Absorbent and filter materials (including oil filters n.o.s.)

14. INFORMATION ON TRANSPORTING

Maritime traffic (IMDG)	
Surface and rail traffic (ADR/RID)	
Air traffic (ICAO/IATA)	

15. REGULATIONS

The product is classified and labelled according to EC Directives and the Gef-StoffV (Hazardous Substance Ordinance).

15.1. EU regulations	
Hazard symbol/ hazard ID	-
R phrases	<ul style="list-style-type: none"> ▪ R10 – Flammable
S phrases	<ul style="list-style-type: none"> ▪ S2 – Keep out of the reach of children ▪ S16 – Keep away from sources of ignition - no smoking. ▪ S7 – Keep containers sealed.
Special ID	-

15.2. National regulations	
TRGS 905	CAS No.: not applicable
Malfunction V	not applicable
Water pollution class	WGK 1 (VwVwS): slightly water polluting
Information on Directive 1999/13/EC on the restriction of emissions of volatile organic compounds (VOC Directive)	25% w/w (VOC-CH: 625 g/2.5 l)
Restriction and prohibitions	not applicable
Workplace identifications according to BGV A8	-

16. OTHER INFORMATION

R phrases	<ul style="list-style-type: none"> ▪ R10 – Flammable. ▪ R65 – Harmful to health: Can cause lung damage when swallowed. ▪ R66 – Repeated contact can lead to brittle or cracked skin. ▪ R11 – Highly flammable. ▪ R36 – Irritates eyes. ▪ R67 – Vapours can cause drowsiness and dazedness.
Training instructions	-

Sources	<ul style="list-style-type: none"> ▪ Directive 1999/45/EC ▪ Directive 67/548/EEC (materials list) ▪ Restriction Directive 76/769/EEC ▪ Directive 91/155/EEC
Revision of the safety data sheet	<ul style="list-style-type: none"> ▪ 2008-09-18: Revised according to Directive 2001/58/EC.



Note

This information was compiled in good conscience according to our best knowledge. We make no claims in regard to completeness, and this document should only be understood by the user as a guideline. The information does not represent a warranted quality. We expressly refer to our sales and delivery conditions. Paper printouts and file copies may only be created for internal use. They are not subject to revision and updating.



Note

Only for use in conjunction with the corresponding KaVo products according the instructions for use. Not to be used in homes or for other purposes. In case of contact or mixture with other products, check if other hazards may arise. The presented information does not free the user of the product from observing all guidelines regarding safety, hygiene, health and environmental protection.

1.1



KaVo. Dental Excellence.

2 Material Safety Data Sheet MSDS

Version date: 2010-11-12

1. PRODUCT AND COMPANY

1.1. Name of the material or preparation
KaVo Dental Öl 122 (Dental Oil)
Versions: <ul style="list-style-type: none"> ▪ Steel drum containing 200 l / 180 kg Mat. no. (.100.44792)

1.2. Use of the material or preparation
Care product for KaVo instruments (handpieces and contra-angle handpieces), turbines and pneumatic motors according to the rotation principle in connection with the KaVo spray rotor "Clinic".

1.3. Company name	Distributors in Switzerland (only for Switzerland):
Kaltenbach & Voigt GmbH Bismarckring 39 D-88400 Biberach Tel.: + 49 7351 56-0 Fax: + 49 7351 56-1488 Contact for information: Person in charge of safety for medical devices	KaVo Dental AG Steinbruchstr. 11 Postfach 5200 Brugg 3 Tel.: + 41 56 460 78 7 Fax: + 41 56 460 78 79

2. COMPOSITION OF THE PRODUCT

Chemical characterisation	
Description:	Mineral oil Ester oil
Hazardous contents:	N/A
Additional instructions:	For the hazard instructions, please refer to chapter 16.

3. POTENTIAL HAZARDS

Risk phrase:	N/A
Special hazard instructions for people and the environment:	The product does not have to be identified due to the calculation method in most recent version of "General classification guideline for preparations in the EC".
Classification system:	The classification corresponds to current EC lists and is supplemented by information from the technical literature and company information.

4. FIRST AID

After inhalation:	<ul style="list-style-type: none"> ▪ Supply fresh air ▪ If symptoms arise, consult a doctor and take along the material safety data sheet/label.
After exposure of the skin:	<ul style="list-style-type: none"> ▪ Carefully wash the skin with soap and copious amounts of water. ▪ In case of persistent irritation of the skin, consult a doctor.
After exposure of the eyes:	<ul style="list-style-type: none"> ▪ Rinse for at least 15 minutes with copious amounts of water (eyelids open). ▪ If symptoms persist, consult a doctor.
After swallowing:	<ul style="list-style-type: none"> ▪ If symptoms persist, consult a doctor.

5. FIREFIGHTING MEASURES

Suitable extinguishing agents:	<ul style="list-style-type: none"> ▪ Water fog ▪ Foam ▪ Dry powder ▪ Carbon dioxide
Unsuitable extinguishing agents:	<ul style="list-style-type: none"> ▪ Fully applied water jet
Special hazards from the product, its combustion products or gases generated:	<p>The following can be released in the event of a fire:</p> <ul style="list-style-type: none"> ▪ Carbon monoxide (CO) ▪ Hydrocarbons
Special safety equipment:	<ul style="list-style-type: none"> ▪ Do not inhale fumes from explosions and fires ▪ Follow standard procedures for chemical fires
Further information:	<ul style="list-style-type: none"> ▪ Cool containers at risk with a jet of spray water ▪ Dispose of combustion residues and contaminated extinguishing agent in accordance with local official regulations.

6. MEASURES IN CASE OF UNINTENTIONAL RELEASE

Safety measures for personal protection:	<ul style="list-style-type: none"> ▪ Caution - spilled product may be slippery.
Safety measures for environmental protection:	<ul style="list-style-type: none"> ▪ Do not allow to enter into sewage systems/ surface waterways/ground water.
Methods for limitation of damage and cleaning:	<ul style="list-style-type: none"> ▪ Use liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust) to absorb spilled product. ▪ The absorbed product must be disposed of in compliance with regulations.

7. HANDLING AND STORAGE

Handling:	
Instructions on safe handling:	<ul style="list-style-type: none"> ▪ Prevent the formation of an aerosol.
Instructions on fire and explosion protection:	<ul style="list-style-type: none"> ▪ No special measures required.
Storage	
Requirements for storage rooms and containers:	<ul style="list-style-type: none"> ▪ Store in properly sealed drums in a cool and dry place.
Storage in the presence of other materials:	<ul style="list-style-type: none"> ▪ Keep separate from food items. ▪ Keep separate from oxidants.

Storage	
VCI storage class:	10
Classification according to the Ordinance on Industrial safety and Health:	-

8. EXPOSURE LIMITATION / PERSONAL PROTECTION

Components having maximum allowable concentrations that are subject to monitoring:	The product contains no relevant amounts of substances having maximum allowable concentrations that are subject to monitoring.
Additional instructions:	Based on the lists that were effective at the time of preparation.
General protective and hygiene measures:	<ul style="list-style-type: none"> ▪ Do not inhale gases/vapours/aerosols. ▪ Remove contaminated, soaked clothing immediately. ▪ Avoid prolonged and intensive exposure of the skin. ▪ Wash the skin thoroughly after work and before work breaks.
Eye protection:	<ul style="list-style-type: none"> ▪ Wear protective goggles when transferring the product.
Gloves:	<ul style="list-style-type: none"> ▪ Preventative protection of the skin through skin protection means is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Yellow
Odour:	Product-specific
Change of state:	~-30 °C (DIN ISO 3016)
Flashpoint:	150 °C (DIN ISO 2592)
Explosion hazard:	none
Density at 20 °C:	~ 0.86 g/cm ³
Solubility:	Insoluble
Viscosity:	~ 15 mm ² /s (DIN 51562)

10. STABILITY AND REACTIVITY

Thermal decomposition/conditions to be avoided:	No decomposition upon proper storage and handling.
Materials to be avoided:	Oxidants
Hazardous reactions:	No known hazardous reactions
Hazardous decomposition products:	The following can be released in the event of a fire: Hydrocarbons Carbon monoxide and carbon dioxide

11. TOXICOLOGICAL PARTICULARS

Additional toxicological instructions:	Prolonged exposure of the skin can lead to irritation and/or dermatitis.
----------------------------------------	--------------------------------------------------------------------------

12. ECOLOGICAL INFORMATION

Ecotoxic effects:	
Behaviour in sewage plants:	The product can be separated by mechanical means.
General instructions:	<ul style="list-style-type: none"> ▪ Do not allow to enter into the ground water, waterways or sewage system. ▪ Water pollution class 1 (self rating): slightly water polluting.

13. DISPOSAL

Product:	
Recommendation:	Can be re-used after reprocessing.
Waste code:	A waste code according to the European waste catalogue (EWC) cannot be specified for this product, as codes are assigned on the basis of use by the consumer. The waster code must be specified in agreement with the local disposal contractor.

Uncleaned packaging:	
Recommendation:	Contaminated packaging must be emptied optimally and can then be recycled after appropriate cleaning.

14. TRANSPORT INFORMATION

Proper shipping name (PSN)	
Street:	ADR
Rail:	RID
Ship:	IMDG
Air:	ICAO/IATA
Further information:	Not a hazardous product according to the ordinances specified above

15. REGULATORY INFORMATION

Labelling according to EC guidelines	
The product does not have to be labelled due to the calculation method in the most recent version of "General classification guideline for preparations in the EC".	

National regulations:	-
Classification according to the Ordinance on Industrial safety and Health (German: BetrSichV):	
Water pollution class:	according to VwVwS 17.5.99 appendix 4 WGK 1 (self-rated): slightly water-polluting

16. Miscellaneous



Note

This information was compiled to the best of our knowledge and belief with no claims in regard to completeness, and should only be considered to be a guideline by the user. The information is no formal guarantee of quality. We expressly refer to our sales and delivery conditions. Paper printouts and file copies may only be created for internal use and are not subject to revision and updating.



Note

Only for use in conjunction with the corresponding KaVo products according to the instructions for use. Not to be used in private homes or for other purposes. In case of contact or mixture with other products, check if other hazards may arise. The presented information does not relieve the user of the product from complying with all guidelines regarding safety, hygiene, health, and environmental protection.

