



SAFETY DATA SHEET

KaVo. Dental Excellence.

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

1.1. Product identifier

Trade name or designation of the mixture	KaVo Pflegemittel
Product code	0,411,8991; 0,411,9080
Issue date	09-November-2011
Version number	2.0
Revision date	02-December-2013
Supersedes date	08-January-2013
Product use	professional use

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

Identified uses	Not available.
Uses advised against	None known

1.3. Details of the supplier of the safety data sheet

Company name	Kaltenbach & Voigt GmbH
Address	Bismarckring 39 D-88400 Biberach Germany
Telephone number	+49 (0) 7351 56-0
Fax	+49 (0) 7351 1488
Contact person	Peter Fischer
Telephone number	+49 (0) 175 30 57725
e-mail	peter.fischer@bayer.com
Emergency telephone number	+49 (0) 7351 56 4000

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification R10, Xn;R65, R66-67, N;R51/53

The full text for all R-phrases is displayed in section 16.

Hazard summary

Physical hazards	Flammable.
Health hazards	Harmful: May cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
Environmental hazards	Toxic to aquatic organisms, May cause long-term adverse effects in the aquatic environment.
Specific hazards	Not available.
Main symptoms	Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

2.2. Label elements

Label according to Directive 67/548/EEC or 1999/45/EC as amended

Contains:	Solvent naphtha (petroleum), light arom. (< 0.1% Benzene)
EC number	-
EC label	



Harmful



Dangerous for the environment

R-phrases R10 Flammable.
R65 Harmful: May cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
R51/53 Toxic to aquatic organisms, May cause long-term adverse effects in the aquatic environment.

S-phrases S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe gas/fumes/vapour/spray.
S57 Use appropriate container to avoid environmental contamination.
S60 This material and its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Authorisation number Not available.

Supplemental label information Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards Not assigned.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Naphtha (petroleum), Hydrotreated Heavy (<0,1 % Benzene)	65 - 70	64742-48-9 265-150-3	-	649-327-00-6	
Classification:	DSD: R10, Xn;R65, R66, R52/53				
	CLP: Flam. Liq. 3;H226, Asp. Tox. 1;H304, Aquatic Chronic 3;H412				
Naphtha (petroleum), hydrodesulfurized heavy (< 0,1% Benzene)	10 - 15	64742-82-1 265-185-4	-	649-330-00-2	
Classification:	DSD: R10, Xn;R65, R67, N;R51/53				
	CLP: Flam. Liq. 3;H226, Asp. Tox. 1;H304, STOT SE 3;H336, Aquatic Chronic 2;H411				
Solvent naphtha (petroleum), light arom. (< 0.1% Benzene)	10 - 15	64742-95-6 265-199-0	01-2119474196-32-xxxx 01-2119455851-35-xxxx	649-356-00-4	
Classification:	DSD: R10, Xn;R65, Xi;R37, R66-67, N;R51/53				
	CLP: Flam. Liq. 3;H226, Asp. Tox. 1;H304, STOT SE 3;H335, STOT SE 3;H336, Aquatic Chronic 2;H411				

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

#: This substance has been assigned Community workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Composition comments The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a POISON CENTRE or doctor/physician if you feel unwell.

Skin contact Take off immediately all contaminated clothing. Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice/attention.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause pulmonary oedema and pneumonitis.

4.2. Most important symptoms and effects, both acute and delayed Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

4.3. Indication of any immediate medical attention and special treatment needed Not available.

SECTION 5: Firefighting measures

General fire hazards Flammable liquid and vapour.

5.1. Extinguishing media

Suitable extinguishing media Water fog. Carbon dioxide (CO₂). Alcohol resistant foam. Powder.

Unsuitable extinguishing media Water. Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture By heating and fire, harmful vapours/gases may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.

Special fire fighting procedures In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.

6.2. Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water. Contact local authorities in case of spillage to drain/aquatic environment.

6.3. Methods and material for containment and cleaning up ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material.

Large Spills: Dike the spilled material, where this is possible. Absorb spillage with non-combustible, absorbent material. Following product recovery, flush area with water. Prevent product from entering drains.

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

6.4. Reference to other sections For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains. Avoid temperatures above °F (50°C).

7.2. Conditions for safe storage, including any incompatibilities Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in cool place. Store in a well-ventilated place. Keep container tightly closed. Keep in an area equipped with sprinklers. Keep out of the reach of children.

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

8.2. Exposure controls

Appropriate engineering controls	Explosion-proof general and local exhaust ventilation.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear eye/face protection.
Skin protection	
- Hand protection	Wear protective gloves.
- Other	Wear suitable protective clothing. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use respiratory equipment with gas filter, type A2.
Thermal hazards	Not available.
Hygiene measures	When using, do not eat, drink or smoke. Avoid contact with eyes. Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practices.
Environmental exposure controls	Contain spills and prevent releases and observe national regulations on emissions. Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid.
Form	liquid
Colour	Colourless.
Odour	Characteristic.
Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 140 °C (> 284 °F)
Flash point	> 24.00 °C (> 75.20 °F)
Evaporation rate	< 0.6 ASTM D 3539 @ 20 °C
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	0.6 %
Flammability limit - upper (%)	7 %
Vapour pressure	< 24 hPa @ 50 °C < 5 hPa @ 20 °C
Vapour density	Not applicable.
Relative density	Not available.
Solubility(ies)	< 0.1 g/l @ 20 °C
Partition coefficient (n-octanol/water)	Not available.
Ignition temperature	> 200 °C (> 392 °F)
Decomposition temperature	Not available.
Viscosity	Not applicable.
Explosive properties	Not available.
Oxidizing properties	Not available.

9.2. Other information

Density	0.79 g/cm ³ DIN 51757 @ 20 °C
Kinematic viscosity	< 7 mm ² /s EN ISO 2431
VOC (Weight %)	90 % (711 g/l @ 25 °C)

SECTION 10: Stability and reactivity

10.2. Chemical stability	Risk of ignition.
10.3. Possibility of hazardous reactions	Not available.

10.4. Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point.
10.5. Incompatible materials	Strong oxidizing agents.
10.6. Hazardous decomposition products	No dangerous reaction known under conditions of normal use.

SECTION 11: Toxicological information

General information	Not available.
Information on likely routes of exposure	
Ingestion	May be fatal if swallowed and enters airways.
Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.
Symptoms	Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
11.1. Information on toxicological effects	
Acute toxicity	May be fatal if swallowed and enters airways.
Skin corrosion/irritation	Not available.
Serious eye damage/irritation	Not available.
Respiratory sensitisation	Not available.
Skin sensitisation	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not available.
Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Narcotic effects.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	May be fatal if swallowed and enters airways.
Mixture versus substance information	Not available.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity	Toxic to aquatic life with long lasting effects.		
Components	Species	Test results	
Naphtha (petroleum), hydrodesulfurized heavy (< 0,1% Benzene) (64742-82-1)			
Aquatic			
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	8.2 mg/l, 96 hours, (ECHA-DSD24 Keystudy No.2)
Solvent naphtha (petroleum), light arom. (< 0.1% Benzene) (64742-95-6)			
<i>Acute</i>			
Algae	EC50	Algae	1 - 10 mg/l
Crustacea	EC50	Daphnia	213 mg/l, 48 hours
Fish	LC50	Oncorhynchus mykiss	18 mg/l, 96 hours
12.2. Persistence and degradability	No data is available on the degradability of this product.		
12.3. Bioaccumulative potential	Not available.		
Partition coefficient n-octanol/water (log Kow)			
Naphtha (petroleum), hydrodesulfurized heavy (< 0,1% Benzene)	3.16 - 7.15		
Bioconcentration factor (BCF)	Not available.		
12.4. Mobility in soil	Not available.		
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.		
12.6. Other adverse effects	Not available.		

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN1268
14.2. UN proper shipping name	Petroleum distillates, N.O.S. or PETROLEUM PRODUCTS, n.o.s.
14.3. Transport hazard class(es)	3
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	No
Tunnel restriction code	D/E
Labels required	3
14.6. Special precautions for user	Not available.
Hazard ID	30

IATA

14.1. UN number	UN1268
14.2. UN proper shipping name	Petroleum products, n.o.s.
14.3. Transport hazard class(es)	3
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	Not available.
Labels required	Not available.
ERG Code	3L
14.6. Special precautions for user	Not available.

IMDG

14.1. UN number	UN1268
14.2. UN proper shipping name	Petroleum distillates, N.O.S. or PETROLEUM PRODUCTS, n.o.s.
14.3. Transport hazard class(es)	3
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	
Marine pollutant	No
Labels required	Not available.
EmS No.	F-E, S-E
14.6. Special precautions for user	Not available.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This substance/mixture is not intended to be transported in bulk.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Naphtha (petroleum), hydrodesulfurized heavy (< 0,1% Benzene) (CAS 64742-82-1)

Naphtha (petroleum), Hydrotreated Heavy (<0,1 % Benzene) (CAS 64742-48-9)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Naphtha (petroleum), hydrodesulfurized heavy (< 0,1% Benzene) (CAS 64742-82-1)

Naphtha (petroleum), Hydrotreated Heavy (<0,1 % Benzene) (CAS 64742-48-9)

Solvent naphtha (petroleum), light arom. (< 0.1% Benzene) (CAS 64742-95-6)

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Naphtha (petroleum), hydrodesulfurized heavy (< 0,1% Benzene) (CAS 64742-82-1)

Naphtha (petroleum), Hydrotreated Heavy (<0,1 % Benzene) (CAS 64742-48-9)

Solvent naphtha (petroleum), light arom. (< 0.1% Benzene) (CAS 64742-95-6)

Directive 94/33/EC on the protection of young people at work

Naphtha (petroleum), hydrodesulfurized heavy (< 0,1% Benzene) (CAS 64742-82-1)

Naphtha (petroleum), Hydrotreated Heavy (<0,1 % Benzene) (CAS 64742-48-9)

Solvent naphtha (petroleum), light arom. (< 0.1% Benzene) (CAS 64742-95-6)

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations

Not available.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

Not available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R10 Flammable.
R37 Irritating to respiratory system.
R51/53 Toxic to aquatic organisms, May cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, May cause long-term adverse effects in the aquatic environment.
R65 Harmful: May cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.
H412 - Harmful to aquatic life with long lasting effects.

Training information

Not available.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.