Safety Data Sheet

according to Regulation (EC) No 1907/2006

Packung KaVo Spray AMERICA 2113

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

1.1. Product identifier

Packung KaVo Spray AMERICA 2113

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

Company name:	KaVo Dental GmbH	
Street:	Bismarckring 39	
Place:	D-88400 Biberach/Riß	
Telephone:	+49 (0) 7351 56-0	Telefax: +49 (0) 7351 56-1488
e-mail:	info@kavo.com	
Internet:	www.kavo.de	

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:
Extremely flammable.

2.2. Label elements

Danger symbols: F+ - Extremely flammable

F+ - Extremely flammable

R phrases

12	Extremely flammable.

S phrases

23	Do not breathe Aerosol .
51	Use only in well-ventilated areas.

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.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

~Verified on 2014-11 by Henry Schein to be the most current version of the SDS. To be verified again on 2017-11. ~

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
232-455-8	White mineral oil (petroleum)	25 - < 50 %
8042-47-5		
	Asp. Tox. 1; H304	
01-2119487078-27		

Full text of R and H phrases: see Section 16.

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 (CO_2). 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)

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

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

Physical state:	Aerosol
Colour:	slightly yellow
Odour:	characteristic

		Test method
pH-Value (at 20 °C):	not applicable	
Changes in the physical state		
Melting point:	No information available.	
Initial boiling point and boiling range:	-40 °C	
Sublimation point:	No information available.	
Softening point:	No information available.	
:	No information available.	
Flash point:	-80 °C	
Lower explosion limits:	1 vol. %	
Upper explosion limits:	11 vol. %	
Ignition temperature:	No information available.	
Vapour pressure:	No information available.	
Vapour pressure:	No information available.	
Density (at 20 °C):	0,853 g/cm³	DIN 51757
Bulk density:	No information available.	
Water solubility:	insoluble	
Partition coefficient:	No information available.	
Viscosity / dynamic:	No information available.	
Viscosity / kinematic:	15,5 mm²/s	
Flow time:	No information available.	
Vapour density:	No information available.	
Evaporation rate:	No information available.	

Solvent separation test: No information available.

Solvent content: No information available.

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

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

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

Irritation and corrosivity

No information available.

Sensitising effects

No information available.

Severe effects after repeated or prolonged exposure

No information available.

Carcinogenic/mutagenic/toxic effects for reproduction

No indication of human carcinogenicity.
No indications of human germ cell mutagenicity exist.

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

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

12.2. Persistence and degradability

There are no data available on the mixture itself. AOX (mg/l): 0

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
8042-47-5	White mineral oil (petroleum)	> 3,5

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

Special Provisions:	A145 A167 A802
Limited quantity Passenger:	30 kg G
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

Other applicable information (air transport)

Limited quantity: E0
Passenger-LQ: Y203

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

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.)

~Verified on 2014-11 by Henry Schein to be the most current version of the SDS. To be verified again on 2017-11. ~