according to UK REACH Regulation

Revision date: 15.04.2024

Revision No: 1,07 - Replaces version: 1,06

SilaPress Vario Liquid



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

Product identifier

Commercial product name: SilaPress Vario Liquid Product group: Liquid component Y8SY-219S-M00D-AMU4 UFI:

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

Use of the substance/mixture: Manufacture of dental products.

1.3 Details of the supplier of the safety data sheet

> Manufacturer: retec® Kunststofftechnik GmbH

Street / mailbox: Industriestraße 2

Country code. / postal code / city: D-61191 Rosbach v.d.H Phone: +49 (0) 6007 - 9157 0 Fax: +49 (0) 6007 - 9157 29 E-mail: info@retec-dent.de Contact person:

Research & Development

Department

E-mail: info@retec-dent.de Website: www.retec-dent.de

Supplier: SILADENT Dr. Böhme & Schöps GmbH

Street / mailbox: Im Klei 26 Country code. / postal code / city: D - 38644 Goslar Phone: 0 53 21 / 37 79 - 0 Fax: 0 53 21 / 38 96 32

E-mail / Website: info@siladent.de / www.siladent.de

1.4 **Emergency telephone number:** +49 (0) 6007-91570

SECTION 2: Hazards identification

Classification of the substance or mixture:

GB CLP Regulation Flam. Liq. 2; H225

Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

2.2 Label elements:

GB CLP Regulation

Hazard components for labelling: Methyl methacrylate

1,4-Butandiol dimethacrylate

Signal word: Danger

Pictograms:





Hazard statements:

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. May cause respiratory irritation. H335

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Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P321 Specific treatment (see ... on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use carbon dioxide (CO2), foam or dry powder to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to as hazardous waste - in accordance with local and

national legislation - suitable, approved incinerator for combustible organic waste.

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical characterisation:

Mixture based on methyl methacrylate.

CAS No	Chemical name	Quantity		
	EC No	EC No Index No REACH No		
	Classification (GB CLP Regu	lation)		
80-62-6	Methyl methacrylate	90 - < 95 %		
	201-297-1		01-2119452498-28	
	Flam. Liq. 1, Skin Irrit. 2, Skin	Sens. 1, STOT SE 3; H2	224 H315 H317 H335	
2082-81-7	1,4-Butandiol dimethacrylate	5 - < 10 %		
	218-218-1		01-2119967415-30	
	Skin Sens. 1; H317			

Full text of H- and EUH-phrases: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name				
	Specific Conc. Limits, M-facto					
80-62-6	201-297-1	Methyl methacrylate	90 - < 95 %			
	inhalation: LC50 = 29,8 mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral:					
	LD50 = >5000 mg/kg					
2082-81-7	218-218-1	1,4-Butandiol dimethacrylate	5 - < 10 %			
	dermal: LD50 = > 3000 mg/kg; oral: LD50 = > 10000 mg/kg					

SECTION 4: First aid measures

4.1 Description of first aid measures:

General information: Remove contaminated, saturated clothing immediately. If

skin irritation or rash occurs, get medical advice/attention. If

eye irritation persists, get medical advice/attention.

After inhalation: Provide fresh air. When in doubt or if symptoms are

observed, get medical advice.

After contact with skin: After contact with skin, wash immediately with plenty of

water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin irritation,

consult a physician.

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After contact with eyes: After contact with the eyes, rinse with water with the eyelids

open for a sufficient length of time, then consult an

ophthalmologist immediately.

After ingestion: Do NOT induce vomiting. Rinse mouth. Call a physician

immediately.

4.2 Most important symptoms and effects, both

acute and delayed:

Causes skin irritation. May cause respiratory irritation. May

cause an allergic skin reaction.

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 (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media: Full water jet.

5.2 Special hazards arising from the substance

or mixture:

Highly flammable liquid and vapour. Can polymerise exothermically if heated, exposed to air, sunlight or by addition or free radical initiators. Vapours can form explosive

mixtures with air

5.3 Advice for firefighters: Wear a self-contained breathing apparatus and chemical

protective clothing. Full protection suit.

Additional information: Use water spray jet to protect personnel and to cool

endangered containers. Suppress gases/vapours/mists with water spray jet. 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.

6.2 Environmental precautions:Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and

cleaning up:

Absorb with liquid-binding material (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: Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Advice on safe handling:

When using do not eat, drink, smoke, sniff. Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and

explosion:

Keep away from sources of ignition - No smoking.

Flammable vapours can accumulate in headspace of closed systems. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

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Advice on general occupational hygiene: Remove contaminated, saturated clothing immediately. Draw

up and observe skin protection programme.

Wash hands and face before breaks and after work and take

a shower if necessary. When using do not eat or

drink.

Further information on handling: Caution! Transport usually takes place at temperatures

above the flash point.

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. Protect from direct sunlight.

Advice on storage compatibility: Do not store together with: Material, oxygen-rich, Oxidising.

Pyrophoric or self-heating substances.

Further information on storage conditions: Keep away from heat.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
80-62-6	Methyl methacrylate					
Worker DNEL, long-term		inhalation		208 mg/m ³		
Worker DNEL, long-term		dermal		17 mg/kg bw/day		

8.2 Exposure controls:

Appropriate engineering controls: If handled uncovered, arrangements with local exhaust ventilation

have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear eye/face protection.

Hand protection: Wear suitable protective gloves. To protect against splashes: butyl;

EN 374. For protection against immersion:

Butyl; 0.7 mm or stronger, EN 374. The suitability of gloves should be agreed with the manufacturer. In case of contamination or if the breakthrough time is exceeded, change gloves. Resistance of the glove material: see information from the glove manufacturer.

Skin protection: Flame-retardant protective clothing. Wear anti-static footwear and

clothing.

Respiratory protection: Wear suitable respiratory protection if technical measures are

inadequate or not available and exposure is

expected to exceed the DNEL (derived exposure level below which the substance does not cause any adverse effects on human health). A suitable breathing mask with filter type A (EN141 or EN405) is recommended. If particularly high vapour concentrations form, a self-

contained breathing apparatus may be necessary.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: characteristic
Melting point/freezing point: -48 °C

Boiling point or initial boiling point and boiling

range:

Flammability:

Lower explosion limits:

Upper explosion limits:

12,5 vol. %

Flash point:

10 °C

Auto-ignition temperature:

421 °C

Decomposition temperature: not determined pH-Value: not determined

Water solubility: 12,5 g/L

(at 20 °C)

Solubility in other solvents: not determined

Partition coefficient n-octanol/water: 1,38 Vapour pressure: 36 hPa

(at 20 °C)

Density (at 15,5 °C): 0,949 g/cm³

Relative vapour density: 3,5

(at 20 °C)

9.2 Other information

Information with regard to physical hazard classes

Self-ignition temperature

Solid: not applicable
Gas: not applicable
Oxidizing properties: Not oxidising.

Other safety characteristics

Evaporation rate:

Solid content:

Viscosity / dynamic:

not determined
not determined
0,53 mPa·s

(at 20 °C)

SECTION 10: Stability and reactivity

10.1 Reactivity: Highly flammable, Vapours can form explosive mixtures with

100,5 °C

air.

10.2 Chemical stability: The product is stable under storage at normal ambient

temperatures.

10.3 Possibility of hazardous reactions: Can polymerise exothermically if heated, exposed to air,

sunlight or by addition or free radical initiators.

10.4 Conditions to avoid: Keep away from sources of heat (e.g. hot surfaces), sparks

and open flames. Can polymerise exothermically if heated,

exposed to air, sunlight or by addition or free radical

initiators. Protect from direct sunlight.

10.5 Incompatible materials: Polymerization with heat evolution may occur in the

presence of radical forming substances (e.g. peroxides),

reducing substances, and/or heavy metal ions.

10.6 Hazardous decomposition products No known hazardous decomposition products.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Acute toxicity: Based on available data, the classification criteria are not

met.

ATEmix tested

Dose Species Source

LD50, oral 7870 mg/kg Rat
LD50, dermal > 5000 mg/kg Rabbit
LC50, inhalative (vapour) (4h) 78 mg/l Rat

CAS No	Chemical name									
	Exposure routes	Dose		Species	Source	Method				
80-62-6	Methyl methacrylate									
	oral	LD50	>5000 mg/kg	Rat	OECD 401					
	dermal	LD50	>5000 mg/kg	Rabbit						
	inhalative vapour	LC50	29,8 mg/l	Rat						
2082-81-7	1,4-Butandiol dimetha	crylate								
	oral	LD50	>10000 mg/kg	Rat						
	dermal	LD50	>3000 mg/kg	Rabbit						

Irritation and corrosivity: Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Based on available data,

the classification criteria are not met.

Sensitising effects: May cause an allergic skin reaction. (Methyl methacrylate;

1,4-Butandiol dimethacrylate)

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not

met.

Carcinogenicity: Based on available data, the classification criteria are not

met.

Reproductive toxicity: Based on available data, the classification criteria are not

met.

STOT-single exposure: May cause respiratory irritation.

(Methyl methacrylate)

STOT-repeated exposure Based on available data, the classification criteria are not

met.

Aspiration hazard: Based on available data, the classification criteria are not

met.

Additional information on tests: This mixture is classified as hazardous according to

regulation (EC) No. 1272/2008 [CLP].

SECTION 12: Ecological information

12.1 Toxicity Acute (short-term) fish toxicity

CAS No	Chemical name									
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method			
80-62-6	Methyl methacrylate									
	Acute fish toxicity	LC50	> 79mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	OECD 203				
	Acute algae toxicity	ErC50	> 110 mg/l	72 h	Selenastrum capricornutum	OECD 201				

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	Acute crustacea toxicity	EC50	69 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202	
	Crustacea toxicity	NOEC	37 mg/l	21 d	Daphnia magna (Big waterflea)	OECD 202	
2082-81-7	1,4-Butandiol dime	ethacrylat	е				
	Acute fish toxicity	LC50	32,5 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute crustacea toxicity	EC50	7,51 mg/l	48 h	Daphnia magna (Big water flea)	OECD 211	
	Crustacea toxicity	NOEC	7,51 mg/l		Selenastrum capricornutum		

12.2 Persistence and degradability: Biodegradable.

12.3 Bioaccumulative potential: On the basis of existing data about the

elimination/degradation and bioaccumulation potential longer

term damage to the environment is unlikely.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
80-62-6	Methyl methacrylate	1,38
2082-81-7	1,4-Butandiol dimethacrylate	3,1

12.4 Mobility in soil: Mobility in soil: No adsorption in soil or sediment.

12.5 Results of PBT and vPvB assessment: The substances in the mixture do not meet the PBT/vPvB

criteria according to UK REACH.

This substance does not meet the PBT/vPvB criteria of

REACH, Annex XIII.

12.6 Endocrine disrupting properties: This product does not contain a substance that has

endocrine disrupting properties with respect to non-target

organisms as no components meets the criteria.

12.7 Other adverse effects: No information available.

Further information: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Disposal recommendations: Do not allow to enter into surface water or drains. Dispose of

waste according to applicable legislation.

List of Wastes Code - residues/unused products:

070208: WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of

plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues

Classified as hazardous waste.

Contaminated packaging: Non-contaminated packages may be recycled. Handle

contaminated packages in the same way as the substance

itself.

SECTION 14: Transport information

Land transport (ADR/RID):

14.1 UN number: UN 1247

14.2 UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

14.3 Transport hazard class(es): 3

14.4 Packing group:

Hazard label: 3

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Classification code: F1
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 339
Tunnel restriction code: D/E

Other applicable information (land SAPT: > 60 °C

transport)

Inland waterways transport (ADN)

14.1 UN number: UN 1247

14.2 UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

14.3Transport hazard class(es):314.4Packing group:IIHazard label:3Classification code:F1Limited quantity:1 LExcepted quantity:E2

Other applicable information (inland SAPT: > 60 °C

waterways transport)

Marine transport (IMDG)

14.1 UN number: UN 1247

14.2 UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

14.3Transport hazard class(es):314.4Packing group:IIHazard label:3Special Provisions:-Limited quantity:1 L

Excepted quantity: E2
EmS: F-E, S-D

Other applicable information (marine

transport) SAPT: > 60 °C

Air transport (ICAO-TI/IATA-DGR)

14.1 UN number: UN 1247

14.2 UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

14.3 Transport hazard class(es): 3
14.4 Packing group: ||

Hazard label: 3 Limited quantity Passenger: 1 L Y-341 Passenger LQ: Excepted quantity: E2 IATA-packing instructions - Passenger: 353 IATA-max. quantity - Passenger: 5 L IATA-packing instructions - Cargo: 364 IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport) SAPT: > 60 °C

14.5 Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6 Special precautions for user

Warning: Combustible liquids.

14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code not applicable

according to UK REACH Regulation

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SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII): Entry 3, Entry 40

Directive 2010/75/EU on industrial emissions: 90 % (854,1 g/l)
Directive 2004/42/EC on VOC in paints and 90 % (854,1 g/l)

varnishes:

Information according to 2012/18/EU

(SEVESO III):

P5c FLAMMABLE LIQUIDS

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according

to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing

mothers.

Water contaminating class (D): 1 - slightly water contaminating

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2 Chemical safety assessment Chemical safety assessments for substances in this mixture

were not carried out.

SECTION 16: Other information

16.1 Abbreviations and acronyms

Flam. Liq: Flammable liquids
Skin Irrit: Skin irritation
Skin Sens: Skin sensitisation

STOT SE: Specific target organ toxicity - single exposure

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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 LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Irrit. 2; H315	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method

Relevant H and EUH statements (number and full text):

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H335 May cause respiratory irritation.

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16.2 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.)