according to Regulation (EC) No. 1907/2006 (REACH)



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Silicone paste low viscosity

article number: **4007** Version: **2.0 en** Replaces version of: 2020-09-21 Version: (1)

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

1.1 Product identifier

Identification of the substance

Article number

Registration number (REACH)

Silicone paste low viscosity

4007

not relevant (mixture)

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment sheet:

e-mail (competent person):

sicherheit@carlroth.de

1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/ EC.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP) not required

according to Regulation (EC) No. 1907/2006 (REACH)



Silicone paste low viscosity

article number: 4007

2.3 Other hazards

Results of PBT and vPvB assessment

The mixture contains a substance that was identified as a PBT (persistent, bioaccumulative and toxic). The mixture contains a substance that was identified as vPvB (very persistent and very bioaccumulative).

Endocrine disrupting properties

Contains an endocrine disruptor (EDC) in a concentration of $\ge 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Silicone oil	CAS No 63148-62-9	> 95			
	EC No 613-156-5				
Dodecamethylcyclo- hexasiloxane	CAS No 540-97-6	<1	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	× ×	PBT vPvB
	EC No 208-762-8				
	REACH Reg. No 01-2119517435- 42-xxxx				
Decamethylcyclo- pentasiloxane	CAS No 541-02-6	<1	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		PBT vPvB
	EC No 208-764-9				
	REACH Reg. No 01-2119511367- 43-xxxx				
Octamethylcyclotet- rasiloxane	CAS No 556-67-2	<1	Flam. Liq. 3 / H226 Repr. 2 / H361f		GHS-HC PBT
	EC No 209-136-7		Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		vPvB
	Index No 014-018-00-1				
	REACH Reg. No 01-2119529238- 36-xxxx				

Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/ 2008/EC, Annex VI)

PBT: The substance was identified as a PBT (persistent, bioaccumulative and toxic)

vPvB: The substance was identified as a vPvB (very persistent and very bioaccumulative)

according to Regulation (EC) No. 1907/2006 (REACH)



Silicone paste low viscosity

article number: 4007

Name of sub- stance	Identifier	Specific Conc. Limits	M-Factors	ΑΤΕ	Exposure route
Dodecamethyl- cyclohexasilox- ane	CAS No 540-97-6 EC No 208-762-8	-	M-factor (acute) = 100.0	-	
Decamethylcyc- lopentasiloxane	CAS No 541-02-6 EC No 208-764-9	-	M-factor (acute) = 100.0	-	
Octamethylcyc- lotetrasiloxane	CAS No 556-67-2 EC No 209-136-7 Index No 014-018-00-1	-	M-factor (acute) = 10.0 M-factor (chronic) = 10.0	-	

Substance of Very High Concern (SVHC)

Name of substance	Name of substance Name acc. to invent- ory		EC No	Listed in	Remarks
Dodecamethylcyclo- hexasiloxane	dodecamethylcyclo- hexasiloxane	540-97-6	208-762-8	Candidate list	PBT A57d vPvB A57e
Decamethylcyclopentas- iloxane	decamethylcyclopentas- iloxane	541-02-6	208-764-9	Candidate list	PBT A57d vPvB A57e
Octamethylcyclotet- rasiloxane	octamethylcyclotetrasilox- ane	556-67-2	209-136-7	Candidate list	PBT A57d vPvB A57e

candidate Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV list

Persistent, Bioaccumulative and Toxic (article 57d) Very Persistent and very Bioaccumulative (article 57e) PBT A57d

vPvB A57e

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 **Description of first aid measures**



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Rinse cautiously with water for several minutes.

according to Regulation (EC) No. 1907/2006 (REACH)

Silicone paste low viscosity

article number: 4007

Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

- **4.2 Most important symptoms and effects, both acute and delayed** Symptoms and effects are not known to date.
- **4.3 Indication of any immediate medical attention and special treatment needed** none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water, foam, dry extinguishing powder, ABC-powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO $_2$), May produce toxic fumes of carbon monoxide if burning.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

No special measures are necessary.

6.2 Environmental precautions

Keep away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically.



according to Regulation (EC) No. 1907/2006 (REACH)

Silicone paste low viscosity

article number: 4007

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of sufficient ventilation.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

Relevant DNELs of components of the mixture									
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time			
Dodecamethylcyclo- hexasiloxane	540-97-6	DNEL	11 mg/m ³	human, inhalat- ory	worker (industry)	chronic - systemic effects			
Dodecamethylcyclo- hexasiloxane	540-97-6	DNEL	1,22 mg/ m ³	human, inhalat- ory	worker (industry)	chronic - local ef- fects			
Dodecamethylcyclo- hexasiloxane	540-97-6	DNEL	6,1 mg/m ³	human, inhalat- ory	worker (industry)	acute - local ef- fects			
Decamethylcyclo- pentasiloxane	541-02-6	DNEL	97,3 mg/ m ³	human, inhalat- ory	worker (industry)	chronic - systemic effects			
Decamethylcyclo- pentasiloxane	541-02-6	DNEL	97,3 mg/ m ³	human, inhalat- ory	worker (industry)	acute - systemic effects			
Decamethylcyclo- pentasiloxane	541-02-6	DNEL	24,2 mg/ m ³	human, inhalat- ory	worker (industry)	chronic - local ef- fects			

according to Regulation (EC) No. 1907/2006 (REACH)



Silicone paste low viscosity

article number: 4007

Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
Decamethylcyclo- pentasiloxane	541-02-6	DNEL	24,2 mg/ m ³	human, inhalat- ory	worker (industry)	acute - local ef fects
Octamethylcyclotet- rasiloxane	556-67-2	DNEL	73 mg/m ³	human, inhalat- ory	worker (industry)	chronic - system effects
Octamethylcyclotet- rasiloxane	556-67-2	DNEL	73 mg/m ³	human, inhalat- ory	worker (industry)	acute - systemi effects
Octamethylcyclotet- rasiloxane	556-67-2	DNEL	73 mg/m ³	human, inhalat- ory	worker (industry)	chronic - local e fects
Octamethylcyclotet- rasiloxane	556-67-2	DNEL	73 mg/m ³	human, inhalat- ory	worker (industry)	acute - local ef fects
Relevant PNECs o	of compone	ents of th	ne mixture			
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure tim
Dodecamethylcyclo- hexasiloxane	540-97-6	PNEC	1 ^{mg} /l	aquatic organ- isms	sewage treatment plant (STP)	short-term (sing instance)
Dodecamethylcyclo- hexasiloxane	540-97-6	PNEC	13 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (sing instance)
Dodecamethylcyclo- hexasiloxane	540-97-6	PNEC	1,3 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (sing instance)
Dodecamethylcyclo- hexasiloxane	540-97-6	PNEC	3,77 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (sing instance)
Decamethylcyclo- pentasiloxane	541-02-6	PNEC	1,2 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (sing instance)
Decamethylcyclo- pentasiloxane	541-02-6	PNEC	0,12 ^{µg} / _l	aquatic organ- isms	marine water	short-term (sing instance)
Decamethylcyclo- pentasiloxane	541-02-6	PNEC	10 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (sing instance)
Decamethylcyclo- pentasiloxane	541-02-6	PNEC	11 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (sing instance)
Decamethylcyclo- pentasiloxane	541-02-6	PNEC	1,1 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (sing instance)
Decamethylcyclo- pentasiloxane	541-02-6	PNEC	1,27 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (sing instance)
Octamethylcyclotet- rasiloxane	556-67-2	PNEC	1,5 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (sing instance)
Octamethylcyclotet- rasiloxane	556-67-2	PNEC	0,15 ^{µg} / _l	aquatic organ- isms	marine water	short-term (sing instance)
Octamethylcyclotet- rasiloxane	556-67-2	PNEC	10 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (sing instance)
Octamethylcyclotet- rasiloxane	556-67-2	PNEC	3 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (sing instance)
Octamethylcyclotet- rasiloxane	556-67-2	PNEC	0,3 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (sing instance)

according to Regulation (EC) No. 1907/2006 (REACH)



Silicone paste low viscosity

article number: 4007

Relevant PNECs of components of the mixture									
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time			
Octamethylcyclotet- rasiloxane	556-67-2	PNEC	0,54 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)			

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

Skin protection



hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

• type of material

NBR (Nitrile rubber)

• material thickness

>0,11 mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 $^{\circ}$ C, colour code: Brown). Usually no personal respirative protection necessary.

Environmental exposure controls

Keep away from drains, surface and ground water.

according to Regulation (EC) No. 1907/2006 (REACH)

Silicone paste low viscosity

article number: 4007

SECTION 9: Physical and chemical properties

9.1	Information on basic physical and chemical pro	operties
	Physical state	solid
	Form	pasty
	Colour	whitish
	Odour	faintly perceptible
	Melting point/freezing point	not determined
	Boiling point or initial boiling point and boiling range	not determined
	Flammability	this material is combustible, but will not ignite readily
	Lower and upper explosion limit	not determined
	Flash point	>250 °C
	Auto-ignition temperature	not determined
	Decomposition temperature	not relevant
	pH (value)	not applicable
	Kinematic viscosity	not relevant
	Solubility(ies)	
	Water solubility	(insoluble (< 1 mg/l))
	Partition coefficient	
	Partition coefficient n-octanol/water (log value):	this information is not available
	Vapour pressure	not determined
	Density and/or relative density	
	Density	0,97 ^g / _{cm³} at 25 °C
	Relative vapour density	information on this property is not available
	Particle characteristics	No data available.
	Other safety parameters	
	Oxidising properties	none
9.2	Other information	
	Information with regard to physical hazard classes:	hazard classes acc. to GHS (physical hazards): not relevant
	Other safety characteristics:	There is no additional information.



according to Regulation (EC) No. 1907/2006 (REACH)

Silicone paste low viscosity

article number: 4007

SECTION 10: Stability and reactivity

10.1 Reactivity

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5. Release of: Formaldehyde.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/ EC.

Acute toxicity

Shall not be classified as acutely toxic.

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Silicone oil	63148-62-9	oral	LD50	>5.000 ^{mg} / _{kg}	rat
Silicone oil	63148-62-9	dermal	LD50	>2.000 ^{mg} / _{kg}	rabbit
Dodecamethylcyclohexasiloxane	540-97-6	oral	LD50	>2.000 ^{mg} / _{kg}	rat
Dodecamethylcyclohexasiloxane	540-97-6	dermal	LD50	>2.000 ^{mg} / _{kg}	rat
Decamethylcyclopentasiloxane	541-02-6	oral	LD50	>5.000 ^{mg} / _{kg}	rat
Decamethylcyclopentasiloxane	541-02-6	inhalation: dust/mist	LC50	8,67 ^{mg} / _l /4h	rat
Decamethylcyclopentasiloxane	541-02-6	dermal	LD50	>2.000 ^{mg} / _{kg}	rabbit
Octamethylcyclotetrasiloxane	556-67-2	oral	LD50	>4.800 ^{mg} / _{kg}	rat



according to Regulation (EC) No. 1907/2006 (REACH)



Silicone paste low viscosity

article number: 4007

A	Acute toxicity of components of the mixture								
	Name of substance	CAS No	Exposure route	Endpoint	Value	Species			
	Octamethylcyclotetrasiloxane	556-67-2	inhalation: dust/mist	LC50	36 ^{mg} / _l /4h	rat			

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

Data are not available.

• If in eyes

Data are not available.

• If inhaled

Data are not available.

• If on skin

Data are not available.

• Other information

Health effects are not known. This information is based upon the present state of our knowledge.

11.2 Endocrine disrupting properties

Contains an endocrine disruptor (EDC) in a concentration of \ge 0,1%.

according to Regulation (EC) No. 1907/2006 (REACH)

Silicone paste low viscosity



article number: 4007

Endocrine disrupting chemicals (EDC)								
Name of substance	CAS No	Combined cat- egory	Human health category	Wildlife cat- egory				
Octamethylcyclotetrasiloxane	556-67-2	CAT1	CAT1	CAT3b				
haand								

Legend CAT1 CAT3b

Category 1 - evidence of endocrine disruption in at least one species using intact animals Category 3b - no evidence of endocrine disruption or no data available

11.3 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components of the mixture										
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time					
Dodecamethylcyclo- hexasiloxane	540-97-6	ErC50	>2 ^{µg} / _l	algae	72 h					
Decamethylcyclo- pentasiloxane	541-02-6	LC50	>16 ^{µg} / _l	fish	96 h					
Decamethylcyclo- pentasiloxane	541-02-6	EC50	>2,9 ^{µg} / _l	aquatic invertebrates	48 h					
Octamethylcyclotet- rasiloxane	556-67-2	LC50	>22 ^{µg} / _l	fish	96 h					
Octamethylcyclotet- rasiloxane	556-67-2	EC50	>15 ^{µg} / _l	aquatic invertebrates	48 h					
Octamethylcyclotet- rasiloxane	556-67-2	ErC50	>22 ^{µg} / _l	algae	96 h					

Aquatic toxicity (chronic) of components of the mixture					
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Dodecamethylcyclo- hexasiloxane	540-97-6	EC50	>100 ^{mg} / _l	microorganisms	3 h
Decamethylcyclo- pentasiloxane	541-02-6	EC50	>15 ^{µg} / _l	aquatic invertebrates	21 d
Octamethylcyclotet- rasiloxane	556-67-2	EC50	>15 ^{µg} / _l	aquatic invertebrates	21 d

Biodegradation

Data are not available.

according to Regulation (EC) No. 1907/2006 (REACH)



Silicone paste low viscosity

article number: 4007

12.2 Process of degradability

Degradability of components of the mixture

Degradabilit	y or compone		cur c			
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Dodecamethyl- cyclohexasilox- ane	540-97-6	carbon dioxide generation	4,47 %	28 d		ECHA
Decamethyl- cyclopentas- iloxane	541-02-6	carbon dioxide generation	0,14 %	28 d		ECHA
Octamethylcyc- lotetrasiloxane	556-67-2	carbon dioxide generation	3,7 %	29 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture							
Name of substance	CAS No	BCF	Log KOW	BOD5/COD			
Dodecamethylcyclohexasiloxane	540-97-6	1.160	8,87 (23,6 °C)				
Decamethylcyclopentasiloxane	541-02-6	7.060	8,023 (25,3 °C)				
Octamethylcyclotetrasiloxane	556-67-2	12.400	6,488 (25,1 °C)				

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

The mixture contains a substance that was identified as a PBT (persistent, bioaccumulative and toxic). The mixture contains a substance that was identified as vPvB (very persistent and very bioaccumulative).

12.6 Endocrine disrupting properties

Contains an endocrine disruptor (EDC) in a concentration of $\geq 0,1\%$.

Endocrine disrupting chemicals (EDC)

Name of substance	CAS No	Combined cat- egory	Human health category	Wildlife cat- egory
Octamethylcyclotetrasiloxane	556-67-2	CAT1	CAT1	CAT3b

Legend

CAT1 Category 1 - evidence of endocrine disruption in at least one species using intact animals CAT3b Category 3b - no evidence of endocrine disruption or no data available

12.7 Other adverse effects

Data are not available.

according to Regulation (EC) No. 1907/2006 (REACH)



Silicone paste low viscosity

article number: 4007

SECTION 13: Disposal considerations

13.1 Waste treatment methods



Consult the appropriate local waste disposal expert about waste disposal.

Sewage disposal-relevant information

Do not empty into drains.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

not assigned

not assigned

gerous goods regulations

none

not subject to transport regulations

non-environmentally hazardous acc. to the dan-

SECTION 14: Transport information

14.1 UN number or ID r	number
------------------------	--------

- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information Not subject to ICAO-IATA.

according to Regulation (EC) No. 1907/2006 (REACH)

Silicone paste low viscosity

article number: 4007

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Dangerous substances with r	estrictions (REACH, Annex XVII)			
Name of substance	Name acc. to inventory	CAS No	Restriction	No
Dodecamethylcyclohexasiloxane	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3
Decamethylcyclopentasiloxane	decamethylcyclopentasiloxane	541-02-6	R70	70
Decamethylcyclopentasiloxane	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3
Octamethylcyclotetrasiloxane	octamethylcyclotetrasiloxane	556-67-2	R70	70
Octamethylcyclotetrasiloxane	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3
Octamethylcyclotetrasiloxane	flammable / pyrophoric		R40	40
Octamethylcyclotetrasiloxane	substances in tattoo inks and perman- ent make-up		R75	75

Legend

R3

R40

1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

- tricks and jokes,

games for one or more participants, or any article intended to be used as such, even with ornamental aspects,

Articles not complying with paragraph 1 shall not be placed on the market.
 Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume,

or both, if they

can be used as fuel in decorative oil lamps for supply to the general public, and
 present an aspiration hazard and are labelled with H304.
 Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation

(CEN).
5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and pack5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met

(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by

(c) Jamps oils and grill lighters, labelled with H304, intended for supply to the general public are legisly and intender in a kee by a December 2010 as follows: Just a sip of grill lighter fluid may lead to life threatening lung damage;
 (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;
 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended

for supply to the general public for entertainment and decorative purposes such as the following: - metallic glitter intended mainly for decoration,

- artificial snow and frost,

- 'whoopee' cushions,

silly string aerosols

- imitation excrement,

- horns for parties,

- decorative flakes and foams,

- artificial cobwebs,

- stink bombs.

2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: 'For professional users only'.

3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).

4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.



according to Regulation (EC) No. 1907/2006 (REACH)

Silicone paste low viscosity

article number: 4007

Legend R70

1. Shall not be placed on the market in wash-off cosmetic products in a concentration equal to or greater than 0,1 % by weight of either substance, after 31 January 2020. 2. For the purposes of this entry, "wash-off cosmetic products" means cosmetic products as defined in Article 2(1)(a) of Regulation (EC) No 1223/2009 that, under normal conditions of use, are washed off with water after application.



according to Regulation (EC) No. 1907/2006 (REACH)

Silicone paste low viscosity

article number: 4007



Legend R75

1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such sub-stances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:

(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category (a) In the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant equal to or greater than 0,00005 % by weight;
(b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by

weight;

(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser cat-egory 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;

(d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive cat-egory 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than: (i) 0,1 % by weight, if the substance is used solely as a pH regulator

(ií) 0,01 % by weight, in all other cases;

(e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the

(f) in the case of a substance in which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;

(ii) "Rinse-off products";
(ii) "Not to be used in products applied on mucous membranes";
(iii) "Not to be used in eye products";

(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column; (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration. (n) In the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.
3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the strictest in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.

A. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
(a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
(b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of the paragraph 1 or substance then paragraph 1 or substance to paragraph 1 or substance then paragraph 1 or substance to paragraph 1 or su plication of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, para-graph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification. 6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes affect after the date referred to in paragraph 1 or as the case may be paragraph 4 of this entry.

amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made. 7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information: (a) the statement "Mixture for use in tattoos or permanent make-up"; (b) a reference number to uniquely identify the barch:

(a) the statement "Mixture for use in tattoos or permanent make-up";
(b) a reference number to uniquely identify the batch;
(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;
(d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;
(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;

tion limit specified in Appendix 13

(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below

the concentration limit specified in Appendix 13; (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.

The information shall be clearly visible, easily legible and marked in a way that is indelible. The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.

Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this para-

graph. 8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

according to Regulation (EC) No. 1907/2006 (REACH)

Silicone paste low viscosity

article number: 4007

Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

Substance of Very Hig	h Conce	rn (SVHC)				
Name acc. to invent- ory	CAS No	Listed in	Remarks	Latest ap- plication date	Sunset date	Date of in- clusion
dodecamethylcyclo- hexasiloxane	540-97- 6	Candidate list	PBT A57d vPvB A57e			2018-06-27
decamethylcyclopentasilox- ane	541-02- 6	Candidate list	PBT A57d vPvB A57e			2018-06-27
octamethylcyclotetrasilox- ane	556-67- 2	Candidate list	PBT A57d vPvB A57e			2018-06-27

Legend

candidate list Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV PBT A57d vPvB A57e Very Persistent and very Bioaccumulative (article 57e)

Seveso Directive

2012/	12/18/EU (Seveso III)						
Νο	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements	Notes				
	not assigned						

Deco-Paint Directive

VOC content	100 % , 970 ^g / _l
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Industrial Emissions Directive (IED)

VOC content	100 %
VOC content	970 ^g /l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed



according to Regulation (EC) No. 1907/2006 (REACH)



Silicone paste low viscosity

article number: 4007

Water Framework Directive	(WFD)			
List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Octamethylcyclotetrasiloxane	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		A)	

Legend

A) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

1100	
AICS	all ingredients are listed
DSL	all ingredients are listed
IECSC	all ingredients are listed
ECSI	not all ingredients are listed
REACH Reg.	not all ingredients are listed
CSCL-ENCS	not all ingredients are listed
KECI	all ingredients are listed
INSQ	not all ingredients are listed
NZIoC	all ingredients are listed
PICCS	all ingredients are listed
CICR	not all ingredients are listed
TCSI	all ingredients are listed
	IECSC ECSI REACH Reg. CSCL-ENCS KECI INSQ NZIOC PICCS CICR

according to Regulation (EC) No. 1907/2006 (REACH)



Silicone paste low viscosity

article number: 4007

Country	Inventory	Status
US	TSCA	all ingredients are listed
CICR CSCL-ENCS DSL ECSI IECSC INSQ KECI NZIoC PICCS	Domestic Substances List EC Substance Inventory (E Inventory of Existing Chen National Inventory of Che Korea Existing Chemicals New Zealand Inventory of	ontrol Regulation hemical Substances (CSCL-ENCS) (DSL) EINECS, ELINCS, NLP) mical Substances Produced or Imported in China mical Substances Inventory Chemicals iemicals and Chemical Substances (PICCS) ces cee Inventory

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.2	Signal word: not required		yes
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Results of PBT and vPvB assessment: The mixture contains a substance that was iden- tified as a PBT (persistent, bioaccumulative and toxic). The mixture contains a substance that was identified as vPvB (very persistent and very bioaccumulative).	yes
2.3		Endocrine disrupting properties: Contains an endocrine disruptor (EDC) in a con- centration of $\ge 0,1\%$.	yes

Restructuring: section 9, section 14

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor

according to Regulation (EC) No. 1907/2006 (REACH)



Silicone paste low viscosity

article number: 4007

Abbr.	Descriptions of used abbreviations
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
SVHC	Substance of Very High Concern
VOC	Volatile Organic Compounds

according to Regulation (EC) No. 1907/2006 (REACH)



Silicone paste low viscosity

article number: 4007

Abbr.	Descriptions of used abbreviations
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H226	Flammable liquid and vapour.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.