



Safety Data Sheet according to (EC) No 1907/2006 as amended

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Pattex SL 212 White

SDS No. : 681072
V003.1

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

1.1. Product identifier

Pattex SL 212 White

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

Intended use:

Sealant

1.3. Details of the supplier of the safety data sheet

Henkel Jebal Ali FZCO

PO Box 61341 - Jebel Ali

Dubai

Utd.Arab.Emir.

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or www.henkel-adhesives.com.

1.4. Emergency telephone number

HAAD Poison and Drug Information Center UAE, TOLL FREE TEL. NUMBER 800-424

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin sensitizer

Category 1

H317 May cause an allergic skin reaction.

Chronic hazards to the aquatic environment

Category 3

H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

4,5-Dichloro-2-octyl-2H-isothiazol-3-one

Signal word:

Warning

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Hazard statement:	H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.
Supplemental information	EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
Precautionary statement:	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.
Precautionary statement: Prevention	P261 Avoid breathing mist/vapours. P273 Avoid release to the environment. P280 Wear protective gloves.
Precautionary statement: Response	P302+P352 IF ON SKIN: Wash with plenty of soap and water.
Precautionary statement: Disposal	P501 Dispose of contents/container in accordance with national regulation.

2.3. Other hazards

Evolves acetic acid during cure.
Self-classification according to Article 12(b) of (EU) 1272/2008.

Following substances are present in a concentration \geq the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

octamethylcyclotetrasiloxane 556-67-2	PBT/vPvB
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number	content	Classification
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics 1335203-17-2		20- 40 %	Asp. Tox. 1 H304
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics		5- < 10 %	Asp. Tox. 1 H304
Titanium dioxide 13463-67-7	236-675-5	1- < 5 %	Carc. 2; Inhalation H351
octamethylcyclotetrasiloxane 556-67-2	209-136-7	0,25- < 2,5 % O	Aquatic Chronic 1 H410 Repr. 2 H361f Flam. Liq. 3 H226 ===== EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC)
4,5-Dichloro-2-octyl-2H-isothiazol-3-one 64359-81-5	264-843-8	15- < 250 PPM	Acute Tox. 4; Oral H302 Aquatic Acute 1 H400 Acute Tox. 2; Inhalation H330 Eye Dam. 1 H318 Aquatic Chronic 1 H410 Skin Sens. 1A H317 Skin Corr. 1 H314

For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

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4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO₂) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

Ensure adequate ventilation.

Danger of slipping on spilled product.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure that workrooms are adequately ventilated.

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

< + 50 °C

> + 5 °C

Store in a dry place.

Store in a cool, well-ventilated place.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)

Sealant

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Utd.Arab.Emir.

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Silicon dioxide 112945-52-5 [SILICA (RESPIRABLE PARTICULATE)]		3	Time Weighted Average (TWA):		AD TLV
Silicon dioxide 112945-52-5 [SILICA (INHALABLE PARTICLE)]		10	Time Weighted Average (TWA):		AD TLV
Silicon dioxide 112945-52-5 [UN-CRYSTALLIZE SILICA (GRAPHITE) (TOTAL DUST)]		10	Time Weighted Average (TWA):		DB OEL
Silicon dioxide 112945-52-5 [UN-CRYSTALLIZE SILICA (GRAPHITE) (RESPIRABLE DUST)]		2,5	Time Weighted Average (TWA):		DB OEL
Silicon dioxide 112945-52-5 [SILICA DUST (RESPIRABLE)]		3	Time Weighted Average (TWA):		DB OEL
Acetic acid 64-19-7 [ACETIC ACID]	15	37	Short Term Exposure Limit (STEL):		AD TLV
Acetic acid 64-19-7 [ACETIC ACID]	10	25	Time Weighted Average (TWA):		AD TLV
Acetic acid 64-19-7 [ACETIC ACID]	10	25	Time Weighted Average (TWA):		GCC TLV
Acetic acid 64-19-7 [ACETIC ACID]	15	37	Short Term Exposure Limit (STEL):		GCC TLV
Acetic acid 64-19-7 [ACETIC ACID]	10	25	Time Weighted Average (TWA):		UAE OEL
Acetic acid 64-19-7 [ACETIC ACID]	15	37	Short Term Exposure Limit (STEL):		UAE OEL
Acetic acid 64-19-7 [ACETIC ACID]	15		Short Term Exposure Limit (STEL):		DB OEL
Acetic acid 64-19-7 [ACETIC ACID]	10		Time Weighted Average (TWA):		DB OEL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		AD TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		GCC TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		UAE OEL

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Occupational Exposure Limits

Valid for
Bahrain

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		BH TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		GCC TLV
Acetic acid 64-19-7 [ACETIC ACID]	10	25	Time Weighted Average (TWA):		BH TLV
Acetic acid 64-19-7 [ACETIC ACID]	15	37	Short Term Exposure Limit (STEL):		BH TLV
Acetic acid 64-19-7 [ACETIC ACID]	10	25	Time Weighted Average (TWA):		GCC TLV
Acetic acid 64-19-7 [ACETIC ACID]	15	37	Short Term Exposure Limit (STEL):		GCC TLV

Occupational Exposure Limits

Valid for
Egypt

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS]			Time Weighted Average (TWA):		EG OEL
Acetic acid 64-19-7 [ACETIC ACID]	10	25	Time Weighted Average (TWA):		EG OEL
Acetic acid 64-19-7 [ACETIC ACID]	15	37	Short-term Exposure Limit (STEL):		EG OEL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		EG OEL

Occupational Exposure Limits

Valid for
Jordan

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]	100	375	Time Weighted Average (TWA):		JO TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]	450	560	Short Term Exposure Limit (STEL):		JO TLV
Acetic acid 64-19-7 [ACETIC ACID [ENTRY 2]]	20	20	Time Weighted Average (TWA):		JO TLV
Acetic acid 64-19-7 [ACETIC ACID]	15	37	Short Term Exposure Limit (STEL):		JO TLV
Acetic acid	30	45	Short Term Exposure		JO TLV

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64-19-7 [ACETIC ACID [ENTRY 2]]			Limit (STEL):		
Acetic acid 64-19-7 [ACETIC ACID]	10	25	Time Weighted Average (TWA):		JO TLV

Occupational Exposure Limits

Valid for
Kuwait

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS]		3.000	Harmful Concentration for risk to health and life:		KW OEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS]		6	Time Weighted Average (TWA):		KW OEL
Silicon dioxide 112945-52-5 [PARTICULATES, INHALED]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Silicon dioxide 112945-52-5 [PARTICULATES, TOTAL]		15	Time Weighted Average (TWA):		KW OEL
Silicon dioxide 112945-52-5 [PARTICULATES, INHALED]		5	Time Weighted Average (TWA):		KW OEL
Silicon dioxide 112945-52-5 [PARTICULATES, TOTAL]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Acetic acid 64-19-7 [ACETIC ACID]	10	25	Time Weighted Average (TWA):		GCC TLV
Acetic acid 64-19-7 [ACETIC ACID]	15	37	Short Term Exposure Limit (STEL):		GCC TLV
Acetic acid 64-19-7 [ACETIC ACID]	50		Harmful Concentration for risk to health and life:		KW OEL
Acetic acid 64-19-7 [ACETIC ACID]	10	25	Time Weighted Average (TWA):		KW OEL
Acetic acid 64-19-7 [ACETIC ACID]	15	37	Short-term Exposure Limit (STEL):		KW OEL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		GCC TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		KW OEL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		5.000	Harmful Concentration for risk to health and life:		KW OEL

Occupational Exposure Limits

Valid for
Israel

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Silicon dioxide 112945-52-5 [Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles]		10	Time Weighted Average (TWA):		IL OEL
Silicon dioxide		3	Time Weighted Average		IL OEL

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112945-52-5 [Particles (insoluble or poorly soluble) not otherwise specified, respirable particles]			(TWA):		
Acetic acid 64-19-7 [ACETIC ACID]	10		Time Weighted Average (TWA):		IL OEL
Acetic acid 64-19-7 [ACETIC ACID]	15		Short-term exposure limit (STEL):		IL OEL
Titanium dioxide 13463-67-7 [Titanium dioxide, finescale particles, respirable fraction]		2,5	Time Weighted Average (TWA):		IL OEL
Titanium dioxide 13463-67-7 [Titanium dioxide, nanoscale particles, respirable fraction]		0,2	Time Weighted Average (TWA):		IL OEL

Occupational Exposure Limits

Valid for
Kenya

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS TOTAL INHALABLE DUST]		6	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS RESPIRABLE DUST]		3	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Acetic acid 64-19-7 [ACETIC ACID]	15	37	Short-term OEL-RL:		KE OEL-RL
Acetic acid 64-19-7 [ACETIC ACID]	10	25	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE RESPIRABLE DUST]		5	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE TOTAL INHALABLE DUST]		10	Time-weighted average (TWA) OEL-RL:		KE OEL-RL

Biological Exposure Indices:

None

8.2. Exposure controls:

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

Combination filter: ABEKP (EN 14387)

This recommendation should be matched to local conditions.

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Hand protection:

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.
material thickness > 0.1 mm
Perforation time > 30 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Goggles which can be tightly sealed.
Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	cartridges paste white
Odor	of acetic acid
Odour threshold	No data available / Not applicable
pH	Not applicable, Product is non-soluble (in water).
Initial boiling point	No data available / Not applicable
Flash point	Not applicable
Decomposition temperature	No data available / Not applicable
Vapour pressure (20 °C (68 °F))	< 0,5 Pa
Density (20 °C (68 °F))	0,94 g/cm ³
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Insoluble
Solidification temperature	No data available / Not applicable
Melting point	Lower limit DSC
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	No data available / Not applicable
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	Not applicable, Product is a solid.
Oxidising properties	No data available / Not applicable

9.2. Other information

No data available / Not applicable

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SECTION 10: Stability and reactivity

10.1. Reactivity

None if used for intended purpose.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

None if used for intended purpose.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

Evolves acetic acid during cure.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics 1335203-17-2	LD50	> 5.000 mg/kg	oral		rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	LD50	> 5.000 mg/kg	oral		rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Titanium dioxide 13463-67-7	LD50	> 5.000 mg/kg	oral		rat	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)
octamethylcyclotetrasilox ane 556-67-2	LD50	> 4.800 mg/kg	oral		rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
4,5-Dichloro-2-octyl-2H- isothiazol-3-one 64359-81-5	Acute toxicity estimate (ATE)	567 mg/kg	oral			Expert judgement

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Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics 1335203-17-2	LC50	> 5,266 mg/l	dust/mist	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	LC50	> 5,266 mg/l	dust/mist	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Titanium dioxide 13463-67-7	LC50	> 6,82 mg/l	dust	4 h	rat	not specified
octamethylcyclotetrasiloxane 556-67-2	LC50	36 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
4,5-Dichloro-2-octyl-2H-isothiazol-3-one 64359-81-5	Acute toxicity estimate (ATE)	0,16 mg/l	dust/mist	4 h		Expert judgement

Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics 1335203-17-2	LD50	> 3.160 mg/kg	dermal		rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	LD50	> 3.160 mg/kg	dermal		rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Titanium dioxide 13463-67-7	LD50	> 10.000 mg/kg	dermal		rabbit	not specified
octamethylcyclotetrasiloxane 556-67-2	LD50	> 2.375 mg/kg	dermal		rat	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
4,5-Dichloro-2-octyl-2H-isothiazol-3-one 64359-81-5	LD50	> 652 mg/kg	dermal		rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics 1335203-17-2	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Titanium dioxide 13463-67-7	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
octamethylcyclotetrasiloxane 556-67-2	not irritating		rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

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Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics 1335203-17-2	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Titanium dioxide 13463-67-7	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
octamethylcyclotetrasilox ane 556-67-2	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics 1335203-17-2	not sensitising	Guinea pig maximisa tion test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	not sensitising	Guinea pig maximisa tion test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
Titanium dioxide 13463-67-7	not sensitising	Mouse local lymphnod e assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Titanium dioxide 13463-67-7	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
octamethylcyclotetrasilox ane 556-67-2	not sensitising	Guinea pig maximisa tion test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

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Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	negative	oral: gavage		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Titanium dioxide 13463-67-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
	negative	in vitro mammalian cell micronucleus test	without		equivalent or similar to OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
Titanium dioxide 13463-67-7	negative	oral: gavage		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
octamethylcyclotetrasiloxane 556-67-2	negative	bacterial gene mutation assay	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
octamethylcyclotetrasiloxane 556-67-2	negative	inhalation		rat	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
	negative	oral: gavage		rat	equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)

Carcinogenicity:

Hazardous components CAS-No.	Result	Species	Sex	Exposure time/Frequency of treatment	Route of application	Method
Titanium dioxide 13463-67-7	not carcinogenic	rat	male/female	103 w daily	oral: feed	not specified

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Reproductive toxicity:

Hazardous substances CAS-No.	Result / Classification	Species	Exposure time	Species	Method
Titanium dioxide 13463-67-7	NOAEL P = >= 1.000 mg/kg NOAEL F1 = >= 1.000 mg/kg	one- generation study oral: feed		rat	OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study)
octamethylcyclotetrasilox ane 556-67-2	NOAEL P = 300 ppm NOAEL F1 = 300 ppm	two- generation study inhalation		rat	equivalent or similar to OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)

Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics 1335203-17-2	NOAEL=5.000 mg/kg	oral: gavage	13 weeksdaily	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOAEL=5.000 mg/kg	oral: gavage	13 weeksdaily	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Titanium dioxide 13463-67-7	NOAEL=> 1.000 mg/kg	oral: gavage	92 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
octamethylcyclotetrasilox ane 556-67-2	LOAEL=35 ppm	inhalation	6 h nose only inhalation5 days/week for 13 weeks	rat	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
octamethylcyclotetrasilox ane 556-67-2	NOAEL=960 mg/kg	dermal	3 w5 d/w	rabbit	equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.
Self-classification according to Article 12(b) of (EU) 1272/2008.

Ecotoxicity

Acute fish toxicity: LC50 (fish) > 100 mg/l (expert judgement)
NOEC (fish) > 1 mg/l (expert judgement)
Acute fish toxicity: LC50 (fish) > 100 mg/l (expert judgement)
NOEC (fish) > 1 mg/l (expert judgement)
Acute invertebrate toxicity: EC50 (dafnia) >100 mg/l (OECD 211)

Chronic invertebrate toxicity:

NOEC (dafnia) > 1 mg/l (OECD 211)
NOEC (dafnia) > 1 mg/l (OECD 211)

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Aquatic plant/algae toxicity:

EC50 (Algae) > 100 mg/l (OECD 201)

NOEC (Algae) > 1 mg/l (OECD 201)

12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics 1335203-17-2	LC50	> 1.028 mg/l	Fish	96 h	Scophthalmus maximus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics 1335203-17-2	LL50	> 3.193 mg/l	Daphnia	48 h	Acartia tonsa	other guideline:
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics 1335203-17-2	EL50	> 10.000 mg/l	Algae	72 h	Skeletonema costatum	ISO 10253 (Water quality)
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics 1335203-17-2	EC 50	> 100 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	LC50	> 1.028 mg/l	Fish	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC50	> 3.193 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC50	> 3.198 mg/l	Algae	72 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOELR	5 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test)
Titanium dioxide 13463-67-7	LC50	Toxicity > Water solubility	Fish	48 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Titanium dioxide 13463-67-7	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Titanium dioxide 13463-67-7	EC50	Toxicity > Water solubility	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Titanium dioxide 13463-67-7	NOEC	Toxicity > Water solubility	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Titanium dioxide 13463-67-7	EC0	Toxicity > Water solubility	Bacteria	24 h	Pseudomonas fluorescens	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)
Titanium dioxide 13463-67-7	NOEC	Toxicity > Water solubility	chronic Daphnia	21 d	Daphnia magna	OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test)
octamethylcyclotetrasiloxane 556-67-2	NOEC	0,0044 mg/l	Fish	93 d	Salmo gairdneri (new name: Oncorhynchus mykiss)	EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)
	LC50	Toxicity > Water solubility	Fish	96 h	Oncorhynchus mykiss	EPA OTS 797.1400 (Fish

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octamethylcyclotetrasiloxane 556-67-2	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	Acute Toxicity Test) EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)
octamethylcyclotetrasiloxane 556-67-2	EC50	Toxicity > Water solubility	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
	EC10	0,022 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
octamethylcyclotetrasiloxane 556-67-2	EC50	Toxicity > Water solubility	Bacteria	3 h	activated sludge	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
octamethylcyclotetrasiloxane 556-67-2	NOEC	7.9 µg/l	chronic Daphnia	21 d	Daphnia magna	EPA OTS 797.1330 (Daphnid Chronic Toxicity Test)
4,5-Dichloro-2-octyl-2H-isothiazol-3-one 64359-81-5	NOEC	0,00056 mg/l	Fish	97 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early lite stage toxicity test)
	LC50	0,0027 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
4,5-Dichloro-2-octyl-2H-isothiazol-3-one 64359-81-5	EC50	0,0057 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
4,5-Dichloro-2-octyl-2H-isothiazol-3-one 64359-81-5	EC50	0,077 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
4,5-Dichloro-2-octyl-2H-isothiazol-3-one 64359-81-5	EC 50	5,7 mg/l	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
4,5-Dichloro-2-octyl-2H-isothiazol-3-one 64359-81-5	NOEC	0,00063 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

12.2. Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics 1335203-17-2	readily biodegradable	aerobic	74 %	OECD Guideline 306 (Biodegradability in Seawater)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	readily biodegradable	aerobic	74 %	OECD 301 A - F
octamethylcyclotetrasiloxane 556-67-2	not readily biodegradable.	aerobic	3,7 %	OECD Guideline 310 (Ready Biodegradability/CO ₂ in Sealed Vessels (Headspace Test)
4,5-Dichloro-2-octyl-2H-isothiazol-3-one 64359-81-5	not readily biodegradable.	not specified	> 0 - < 60 %	OECD 301 A - F

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
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octamethylcyclotetrasiloxane 556-67-2		12.400	28 d	Pimephales promelas		EPA OTS 797.1520 (Fish Bioconcentration Test- Rainbow Trout) other guideline:
octamethylcyclotetrasiloxane 556-67-2	6,98				21,7 °C	
4,5-Dichloro-2-octyl-2H- isothiazol-3-one 64359-81-5		< 13				not specified
4,5-Dichloro-2-octyl-2H- isothiazol-3-one 64359-81-5	2,8					not specified

12.5. Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics 1335203-17-2	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Titanium dioxide 13463-67-7	According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall not be conducted for inorganic substances.
octamethylcyclotetrasiloxane 556-67-2	Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
4,5-Dichloro-2-octyl-2H-isothiazol-3-one 64359-81-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

080409

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SECTION 14: Transport information

14.1. UN number or ID number

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.2. UN proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.3. Transport hazard class(es)

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.4. Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Maritime transport in bulk according to IMO instruments

not applicable

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SECTION 15: Regulatory information

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

No information available:

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H351 Suspected of causing cancer.
- H361f Suspected of damaging fertility.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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