

SAFETY DATA SHEET

REPLISET-F1, -F5, -T1, -T3, -GF1, -GT1 - Part B



Section 1. Identification of the substance/mixture and of the company/undertaking

Product identifier : REPLISET-F1, -F5, -T1, -T3, -GF1, -GT1 - Part B
Cat. No. : 40900046, 40900047, 40900048, 40900049, 40900050, 40900051, 40900052, 40900053, 40900068, 40900069, 40900070, 40900071, 40900076, 40900077, 40900078, 40900079
Container size : 50 ml
Other means of identification : Not available.
Product type : Liquid.

Recommended use of the chemical and restrictions on use

Product use : Replication system for materialographic surfaces.
Area of application : Professional applications.

Supplier's details : Struers ApS
Pederstrupvej 84
DK-2750 Ballerup

Telephone: +45 44 600 800

e-mail address of person responsible for this SDS : sdsquestions@struers.dk
Emergency telephone number (with hours of operation) : 112 (24/7)

Section 2. Hazards identification

Classification of the substance or mixture : H360 REPRODUCTIVE TOXICITY - Category 1B
H373 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 9.9%

GHS label elements

Hazard pictograms :



Signal word : Danger
Hazard statements : May damage fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure. (lungs)

Precautionary statements

Prevention : P203 - Obtain, read and follow all safety instructions before use.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.
P260 - Do not breathe vapour.

Date of issue/Date of revision : 2026/03/20 **Date of previous issue** : 2025/01/13 **Version** : 1.01 1/14



Section 2. Hazards identification

Response	: P318 - IF exposed or concerned, get medical advice. P319 - Get medical help if you feel unwell.
Storage	: P405 - Store locked up.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

Ingredient name	%	Identifiers
Silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	≥5 - <10	CAS: 68909-20-6
Platinum, 1,3-diethenyl-1,1,3,3-tetramethyldisiloxane complexes	≥1 - <3	-
1,1,3,3-tetramethyl-1,3-divinyldisiloxane	≥0.1 - <1	CAS: 2627-95-4
2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane	≥0.1 - <0.3	CAS: 2554-06-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : Defatting to the skin. May cause skin dryness and irritation.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
Inhalation : Adverse symptoms may include the following:
 reduced foetal weight
 increase in foetal deaths
 skeletal malformations
Skin contact : Adverse symptoms may include the following:
 irritation
 dryness
 cracking
 reduced foetal weight
 increase in foetal deaths
 skeletal malformations
Ingestion : Adverse symptoms may include the following:
 reduced foetal weight
 increase in foetal deaths
 skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments : No specific treatment.
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO₂.
Unsuitable extinguishing media : Do not use water jet.

Section 5. Firefighting measures

Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Dispose of via a licensed waste disposal contractor. Absorb spill with inert material (e.g. dry sand or earth) and place in a chemical waste container.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
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Section 7. Handling and storage

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Recommended: Nitrile gloves. (thickness: 1.25 mm), Neoprene gloves. (thickness: 0.198 mm). It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.

Section 8. Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : Liquid. [Viscous.]
- Colour** : Translucent.
- Odour** : Slight.
- Odour threshold** : Not available.
- pH** : Not applicable.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : Not available.
- Flash point** : Closed cup: >150°C (>302°F) [Afnor T 60103]
- Evaporation rate** : Not available.
- Flammability** : Not considered to be flammable .
- Lower and upper explosion limit/flammability limit** : Not available.
- Vapour pressure** : Not available.
- Relative vapour density** : Not available.
- Relative density** : 1.12 [at 20°C]
- Solubility(ies)** :
- | Media | Result |
|-------|-------------|
| water | Not soluble |
- Solubility in water** : Not available.
- Miscible with water** : No.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : 400°C (752°F)
- Decomposition temperature** : >200°C (>392°F)
- Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): 18000 mm²/s (18000 cSt)
Kinematic (40°C (104°F)): Not available.

Particle characteristics

- Median particle size** : Not applicable.

Refer to section 3 for further detail on nanoform particle characterisation.

Other information

- Physical/chemical properties comments** : No additional information.



Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Hazardous reactions or instability may occur under certain conditions of storage or use. Hazardous polymerization may occur under certain conditions of storage or use. Product may release hydrogen gas – increased storage temperatures will accelerate this process. (<4 l/kg - Product).
Conditions to avoid	: Avoid high temperatures. Keep away from open flames.
Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials and alkalis.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	
1,1,3,3-tetramethyl-1,3-divinyl-disiloxane	Rat - Oral - LD50 >10 g/kg	Toxic effects: Olfaction - Other changes Behavioral - Somnolence (general depressed activity) Other - Hair
2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane	Rat - Oral - LD50 >15 g/kg Rabbit - Male, Female - Dermal - LD50 >2000 mg/kg	OECD 402 [Acute Dermal Toxicity]

Conclusion/Summary[Product] : Not available.

Skin corrosion/irritation

Product/ingredient name	Result	
1,1,3,3-tetramethyl-1,3-divinyl-disiloxane	Rabbit - Skin - Not irritant	OECD 404 [Acute Dermal Irritation/Corrosion]
2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane	Rabbit - Skin - Not irritant Amount/concentration applied: similar material	OECD 404 [Acute Dermal Irritation/Corrosion]

Conclusion/Summary[Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name	Result
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Section 11. Toxicological information

1,1,3,3-tetramethyl- 1,3-divinyldisiloxane	Rabbit - Eyes - Not irritant Amount/concentration applied: similar material	OECD 405 [Acute Eye Irritation/Corrosion]
2,4,6,8-tetramethyl- 2,4,6,8-tetravinylcyclotetrasiloxane	Rabbit - Eyes - Not irritant Amount/concentration applied: similar material	OECD 405 [Acute Eye Irritation/Corrosion]

Conclusion/Summary[Product] : Not available.

Respiratory corrosion/irritation

Conclusion/Summary[Product] : Not available.

Respiratory or skin sensitization

Product/ingredient name	Result	
1,1,3,3-tetramethyl- 1,3-divinyldisiloxane	Guinea pig - skin <u>Result:</u> Not sensitizing	OECD 406 [Skin Sensitization]
2,4,6,8-tetramethyl- 2,4,6,8-tetravinylcyclotetrasiloxane	Guinea pig - skin <u>Result:</u> Not sensitizing	

Skin

Conclusion/Summary[Product] : Not available.

Respiratory

Conclusion/Summary[Product] : Not available.

Germ cell mutagenicity

Product/ingredient name	Result	
1,1,3,3-tetramethyl- 1,3-divinyldisiloxane	In vitro - Bacteria <u>Result:</u> Negative In vivo - Mammalian-Animal <u>Result:</u> Negative	OECD 471 [Bacterial Reverse Mutation Test] OECD 476 [In vitro Mammalian Cell Gene Mutation Test]
2,4,6,8-tetramethyl- 2,4,6,8-tetravinylcyclotetrasiloxane	In vitro - Bacteria <u>Result:</u> Negative In vitro - Mammalian-Animal <u>Result:</u> Positive	OECD 471 [Bacterial Reverse Mutation Test] <u>Metabolic activation:</u> Metabolic activation OECD 476 [In vitro Mammalian Cell Gene Mutation Test]
	In vitro - Mammalian-Animal <u>Result:</u> Negative In vivo - Mammalian-Animal <u>Result:</u> Negative	OECD 476 [In vitro Mammalian Cell Gene Mutation Test] OECD 474 [Mammalian Erythrocyte Micronucleus Test]

Conclusion/Summary[Product] : Not available.

Carcinogenicity

Conclusion/Summary[Product] : Not available.

Reproductive toxicity

Product/ingredient name	Result
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Section 11. Toxicological information

2,4,6,8-tetramethyl-
2,4,6,8-tetravinylcyclotetrasiloxane

Rat - Oral
15 mg/kg - NOAEL
Fertility effects: Positive

OECD 421 [Reproduction/
Developmental Toxicity Screening
Test]

Conclusion/Summary[Product] : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-,
hydrolysis products with silica

Result

SPECIFIC TARGET ORGAN TOXICITY - REPEATED
EXPOSURE (lungs) (inhalation) - Category 2

Aspiration hazard

Not available.

Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : Defatting to the skin. May cause skin dryness and irritation.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations
Skin contact : Adverse symptoms may include the following:
irritation
dryness
cracking
reduced foetal weight
increase in foetal deaths
skeletal malformations
Ingestion : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Section 11. Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Result	
Platinum, 1,3-diethenyl-1,1,3,3-tetramethyldisiloxane complexes	Chronic - Rat - Oral - NOAEL 125 mg/kg	OECD 422 [Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test] <u>Toxic effects:</u> liver, kidney
1,1,3,3-tetramethyl-1,3-divinyldisiloxane	Chronic - Rat - Oral - LOAEL 150 mg/kg [28 days]	OECD 422 [Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test] <u>Toxic effects:</u> liver, kidney
	Chronic - Rat - Oral - NOAEL 50 mg/kg [28 days]	OECD 422 [Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test] <u>Toxic effects:</u> liver, kidney
	Chronic - Rat - Oral - LOAEL 300 mg/kg [90 days]	OECD 408 [Repeated Dose 90-Day Oral Toxicity Study in Rodents] <u>Toxic effects:</u> liver, kidney
	Chronic - Rat - Oral - NOAEL 65 mg/kg [90 days]	OECD 408 [Repeated Dose 90-Day Oral Toxicity Study in Rodents] <u>Toxic effects:</u> liver, kidney
2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane	Chronic - Rat - Male, Female - Inhalation - NOAEL Vapour 250 ppm [14 days]	OECD 412 [Repeated Dose Inhalation Toxicity: 28-day or 14-day Study] <u>Toxic effects:</u> ovary
	Chronic - Rat - Male, Female - Oral - NOAEL 15 mg/kg [13 weeks]	OECD 408 [Repeated Dose 90-Day Oral Toxicity Study in Rodents] <u>Toxic effects:</u> ovary
	Chronic - Rat - Male, Female - Oral - LOAEL 150 mg/kg [13 weeks]	OECD 408 [Repeated Dose 90-Day Oral Toxicity Study in Rodents] <u>Toxic effects:</u> ovary

Conclusion/Summary[Product] : Not available.

General : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : May damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	
Platinum, 1,3-diethenyl-1,1,3,3-tetramethyldisiloxane complexes	Acute - NOEC	
	Fish - <i>Danio rerio</i>	
	≥10 mg/l [96 hours]	
	Acute - NOEC	
	Daphnia - <i>Daphnia magna</i>	
	≥10 mg/l [48 hours]	
	Acute - IC50	
	Algae - <i>Selenastrum capricornutum</i>	
	≥10 mg/l [72 hours]	
	Acute - NOEC	
1,1,3,3-tetramethyl-1,3-divinyldisiloxane	Algae - <i>Selenastrum capricornutum</i>	
	≥10 mg/l [72 hours]	
	EC10	OECD 209 [Activated Sludge, Respiration Inhibition Test]
	Micro-organism	
	20 mg/l [3 minutes]	
	Acute - LC50	OECD 203 [Fish, Acute Toxicity Test]
	Fish - <i>Oncorhynchus mykiss</i>	
	>0.13 mg/l - No toxicity at the limit of water solubility. [96 hours]	
	Acute - EC50	OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test]
	Daphnia - <i>Daphnia magna</i>	
2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane	>0.1 mg/l - No toxicity at the limit of water solubility. [48 hours]	
	Acute - ErC50	OECD 201 [Alga, Growth Inhibition Test]
	Algae - <i>Pseudokirchneriella subcapitata</i>	
	>0.12 mg/l - No toxicity at the limit of water solubility. [72 hours]	
	Acute - NOEC	OECD 201 [Alga, Growth Inhibition Test]
	Algae - <i>Pseudokirchneriella subcapitata</i>	
	≥0.12 mg/l [72 hours]	
	Chronic - EC50	OECD 211 [Daphnia Magna Reproduction Test]
	Daphnia - <i>Daphnia magna</i>	
	≥0.12 mg/l - No toxicity at the limit of water solubility. [21 days]	
	Acute - LL50	OECD 203 [Fish, Acute Toxicity Test]
	Fish - <i>Cyprinodon variegatus</i>	
	>1000 mg/l [96 hours]	
	Acute - LL50	
	Daphnia - <i>Acartia tonsa</i> ;	
	272 mg/l [48 hours]	
	Acute - NOELR	
	Daphnia - <i>Acartia tonsa</i> ;	
	100 mg/l [48 hours]	
	Chronic - NOEC	OECD 211 [Daphnia Magna Reproduction Test]
	Daphnia - <i>Daphnia magna</i>	
	0.0079 mg/l - (similar material) [21 days]	
	Chronic - NOEC	OECD 210 [Fish, Early-Life Stage Toxicity Test]
	Fish - <i>Oncorhynchus mykiss</i>	
	≥0.0044 mg/l - (similar material) [93 days]	

Section 12. Ecological information

Conclusion/Summary[Product] : Not available.

Persistence and degradability

Product/ingredient name	Result	
1,1,3,3-tetramethyl-1,3-divinyldisiloxane	Aerobic - 2 mg/l 0.9% [28 days] - Not readily	OECD 301 D [Ready Biodegradability - Closed Bottle Test]
2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane	Aerobic 3.7% [29 days] - Not readily	OECD 310 [Ready Biodegradability - CO ₂ in Sealed Vessels (Headspace Test)]

Conclusion/Summary[Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Platinum, 1,3-diethenyl-1,1,3,3-tetramethyldisiloxane complexes	-	-	Not readily
1,1,3,3-tetramethyl-1,3-divinyldisiloxane	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Platinum, 1,3-diethenyl-1,1,3,3-tetramethyldisiloxane complexes	5.96	-	High
1,1,3,3-tetramethyl-1,3-divinyldisiloxane	-	1971	High
2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane	-	12400	High

Mobility in soil

Soil/water partition coefficient : Not available.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

History

Date of issue/Date of revision : 3/20/2026

Date of previous issue : 1/13/2025

Version : 1.01



Section 16. Other information

Key to abbreviations

- : ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- IMO = International Maritime Organization
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- SGG = Segregation Group
- UN = United Nations

Procedure used to derive the classification

Classification	Justification
REPRODUCTIVE TOXICITY - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Calculation method

References : GHS - Globally Harmonised System of Classification and Labelling of Chemicals
International transport regulations

🔵 Indicates information that has changed from previously issued version.

Notice to reader

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