

SAFETY DATA SHEET

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

Section 1. Identification

GHS 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.

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

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

Supplier's details : Struers Inc.
24766 Detroit Rd. Westlake
Cleveland, OH 44145
United States
Telephone: +1 (440) 871 0071

e-mail address of person responsible for this SDS : sdsquestions@struers.dk

Emergency telephone number (with hours of operation) : National Capital Poison Center: 1-800-222-1222
Infotrac: 1-800-535-5053
Struers US:
1-440-871-0071

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture : H360 TOXIC TO REPRODUCTION - Category 1B
H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H360 - May damage fertility or the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure. (lungs)

Precautionary statements

Date of issue/Date of revision : 03/20/2026 **Date of previous issue** : 01/13/2025 **Version** : 3.01 1/16



Section 2. Hazards identification

Prevention	: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P260 - Do not breathe vapor.
Response	: P308 + P313 - IF exposed or concerned: Get medical advice or attention.
Storage	: P405 - Store locked up.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Avoid contact with skin and clothing. Wash thoroughly after handling.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.
Hazards identified when used	:  No known significant effects or critical hazards.

Section 3. Composition/information on ingredients

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

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

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

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 recognized 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 fetal weight
 increase in fetal deaths
 skeletal malformations
Skin contact : Adverse symptoms may include the following:
 irritation
 dryness
 cracking
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations
Ingestion : Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal 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. Fire-fighting 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.

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.

Remark : Not considered to be flammable.

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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized 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 spilled 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 materials 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 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 spilled 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 vapor 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.
- 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 unlabeled 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

Ingredient name	Exposure limits
Silanameine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	None.
Platinum, 1,3-diethenyl-1,1,3,3-tetramethyldisiloxane complexes	None.
1,1,3,3-tetramethyl-1,3-divinyldisiloxane	None.
2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane	None.

Biological exposure indices

No exposure indices known.

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor 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.



Section 8. Exposure controls/personal protection

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.
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.]
Color	: Translucent.
Odor	: Slight.
Odor 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.
Vapor pressure	: Not available.
Relative vapor density	: Not available.
Relative density	: 1.12 [at 20°C]
Density	: Not available.
Solubility(ies)	:



Section 9. Physical and chemical properties

Media	Result
water	Not soluble

Miscible with water	: No.
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: 400°C (752°F)
Decomposition temperature	: >200°C (>392°F)
SADT	: Not available.
Viscosity	: Dynamic (room temperature): Not available. Kinematic (room temperature): 18000 mm ² /s (18000 cSt) Kinematic (40°C (104°F)): Not available.
Flow time (ISO 2431)	: Not available.
<u>Particle characteristics</u>	
Median particle size	: Not applicable.
<u>Additional information</u>	
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: oxidizing 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
-------------------------	--------



Section 11. Toxicological information

 1,1,3,3-tetramethyl-
1,3-divinyldisiloxane

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-divinyldisiloxane

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

 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
Result: Not sensitizing

OECD 406 [Skin Sensitization]

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

Guinea pig - skin
Result: Not sensitizing

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.



Section 11. Toxicological information

Germ cell mutagenicity

Product/ingredient name

1,1,3,3-tetramethyl-
1,3-divinyl-disiloxane

Result

In vitro - Bacteria

Result: Negative

In vivo - Mammalian-Animal

Result: Negative

2,4,6,8-tetramethyl-

2,4,6,8-tetravinylcyclotetrasiloxane

In vitro - Bacteria

Result: Negative

In vitro - Mammalian-Animal

Result: Positive

OECD 471 [Bacterial Reverse Mutation Test]

OECD 476 [In vitro Mammalian Cell Gene Mutation Test]

OECD 471 [Bacterial Reverse Mutation Test]

Metabolic activation: Metabolic activation

OECD 476 [In vitro Mammalian Cell Gene Mutation Test]

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

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

Result

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

Silaneamine, 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 the likely routes of exposure

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

Potential acute health effects



Section 11. Toxicological information

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 fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Long term exposure

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



Section 11. Toxicological information

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

**Chronic - Rat - Male, Female -
Inhalation - NOAEL Vapor**

250 ppm [14 days]

**Chronic - Rat - Male, Female - Oral -
NOAEL**

15 mg/kg [13 weeks]

**Chronic - Rat - Male, Female - Oral -
LOAEL**

150 mg/kg [13 weeks]

Oral Toxicity Study in Rodents]
OECD 412 [Repeated Dose Inhalation
Toxicity: 28-day or 14-day Study]

Toxic effects: ovary
OECD 408 [Repeated Dose 90-Day
Oral Toxicity Study in Rodents]

Toxic effects: ovary
OECD 408 [Repeated Dose 90-Day
Oral Toxicity Study in Rodents]

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

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane	N/A	2500	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name

Platinum, 1,3-diethenyl-
1,1,3,3-tetramethyldisiloxane
complexes

Result

Acute - NOEC

Fish - *Danio rerio*
≥10 mg/l [96 hours]

Acute - NOEC

Daphnia - *Daphnia magna*
≥10 mg/l [48 hours]

Acute - IC50

Algae - *Selenastrum capricornutum*
≥10 mg/l [72 hours]

Acute - NOEC

Algae - *Selenastrum capricornutum*
≥10 mg/l [72 hours]

EC10

Micro-organism
20 mg/l [3 minutes]

Acute - LC50

Fish - *Oncorhynchus mykiss*
>0.13 mg/l - No toxicity at the limit of
water solubility. [96 hours]

Acute - EC50

OECD 209 [Activated Sludge,
Respiration Inhibition Test]

OECD 203 [Fish, Acute Toxicity Test]

OECD 202 [Daphnia sp. Acute

Date of issue/Date of revision

: 03/20/2026

Date of previous issue

: 01/13/2025

Version : 3.01

11/16



Section 12. Ecological information

2,4,6,8-tetramethyl- 2,4,6,8-tetravinylcyclotetrasiloxane	Daphnia - <i>Daphnia magna</i> >0.1 mg/l - No toxicity at the limit of water solubility. [48 hours]	Immobilization Test and Reproduction Test]
	Acute - ErC50 Algae - <i>Pseudokirchneriella subcapitata</i> >0.12 mg/l - No toxicity at the limit of water solubility. [72 hours]	OECD 201 [Alga, Growth Inhibition Test]
	Acute - NOEC Algae - <i>Pseudokirchneriella subcapitata</i> ≥0.12 mg/l [72 hours]	OECD 201 [Alga, Growth Inhibition Test]
	Chronic - EC50 Daphnia - <i>Daphnia magna</i> ≥0.12 mg/l - No toxicity at the limit of water solubility. [21 days]	OECD 211 [Daphnia Magna Reproduction Test]
	Acute - LL50 Fish - <i>Cyprinodon variegatus</i> >1000 mg/l [96 hours]	OECD 203 [Fish, Acute Toxicity Test]
	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 Daphnia - <i>Daphnia magna</i> 0.0079 mg/l - (similar material) [21 days]	OECD 211 [Daphnia Magna Reproduction Test]
	Chronic - NOEC Fish - <i>Oncorhynchus mykiss</i> ≥0.0044 mg/l - (similar material) [93 days]	OECD 210 [Fish, Early-Life Stage Toxicity Test]

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



Section 12. Ecological information

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 minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

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



Section 14. Transport information

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) PAIR**: 1,1,3,3-tetramethyl-1,3-divinyl-disiloxane; dodecamethylcyclotetrasiloxane; decamethylcyclopentasiloxane; 2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane; octamethylcyclotetrasiloxane
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): All components are active or exempted.

TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : TOXIC TO REPRODUCTION - Category 1B
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
 HNOC - Defatting irritant

Composition/information on ingredients

Name	%	Classification
Silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	≥5 - <10	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HNOC - Defatting irritant
Platinum, 1,3-diethenyl-1,1,3,3-tetramethyldisiloxane complexes	≥1 - ≤5	FLAMMABLE LIQUIDS - Category 2 TOXIC TO REPRODUCTION - Category 2
1,1,3,3-tetramethyl-1,3-divinyl-disiloxane	≥0.1 - <1	FLAMMABLE LIQUIDS - Category 2 TOXIC TO REPRODUCTION - Category 2
2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane	≥0.1 - <1	TOXIC TO REPRODUCTION - Category 1B

SARA 313

Not applicable.

State regulations

Massachusetts : None of the components are listed.

Date of issue/Date of revision

: 03/20/2026

Date of previous issue

: 01/13/2025

Version : 3.01

14/16



Section 15. Regulatory information

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

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

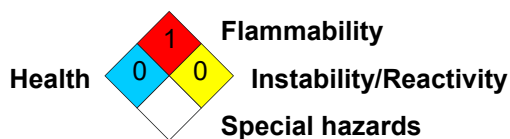
Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		1
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Procedure used to derive the classification

Classification	Justification
TOXIC TO REPRODUCTION - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

History

Date of issue/Date of revision : 03/20/2026



Section 16. Other information

Date of previous issue	: 01/13/2025
Version	: 3.01
Prepared by	: Sphera Solutions
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 TDG = Transportation of Dangerous Goods UN = United Nations
References	: HCS (U.S.A.)- Hazard Communication Standard International transport regulations

▀ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

