



Page 1/7

1 Identification

- · Product identifier
- · Product Name: <u>10,000 µg/mL Silicon</u>
- · Part Number:
- PLSI9-3Y
- PLSI9-3X
- Application of the substance / the mixture For Laboratory Use Only
- Uses advised against Not for Human or Animal Use
- \cdot Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Spex CertiPrep, LLC. 203 Norcross Ave, Metuchen, NJ 08840 USA 732-549-7144 USMet-CRMSales@antylia.com
- Information department: product safety department • Emergency telephone number: Emergency Phone Number (24 hours)
- CHEMTREC (800-424-9300) Outside US: 703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

GHS06 Skull and crossbones

Acute Toxicity - Inhalation 3 H331 Toxic if inhaled.



Acute Toxicity - Oral 4 H302 Harmful if swallowed.

- · Label elements
- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



· Signal word Danger

- · Hazard-determining components of labeling:
- ammonium hexafluorosilicate
- · Hazard statements
- H302 Harmful if swallowed.
- H331 Toxic if inhaled.
- · Precautionary statements
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
- P330 Rinse mouth.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- *P311 Call a poison center/doctor.*
- P321 Specific treatment (see on this label).
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.



Product Name: 10,000 µg/mL Silicon

- · Classification system:
- · NFPA ratings (scale 0 4)

Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 1 Health = 1FIRE 0 Fire = 0Reactivity = 0**REACTIVITY** 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

16919-19-0 ammonium hexafluorosilicate

· Chemical identification of the substance/preparation

7732-18-5 water, distilled, conductivity or of similar purity

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

- Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Remove breathing apparatus only after contaminated clothing have been completely removed.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:
- Supply fresh air or oxygen; call for doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:
- Immediately call a doctor.
- Do not give anything to eat or drink Do not induce vomitting
- · Information for Doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions:
- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.
- Ensure adequate ventilation. Reference to other sections
- See Section 7 for information on safe handling.

Page 2/7

6.3%

93.7%

(Contd. of page 1)



Product Name: 10,000 µg/mL Silicon

Reviewed on 06/05/2024

(Contd. of page 2)

See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
· Protective Action Criteria for Chemicals	
• PAC-1:	
16919-19-0 ammonium hexafluorosilicate	12 mg/m ³
• PAC-2:	
16919-19-0 ammonium hexafluorosilicate	130 mg/m ³
• PAC-3:	
16919-19-0 ammonium hexafluorosilicate	780 mg/m ³

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires: Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- · Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

- Wash hands before breaks and at the end of work. Store protective clothing separately.
- · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties

• Information on basic physics • General Information	al and chemical properties
· Appearance:	
Form:	Liquid
Color:	According to product specification
· Odor:	Characteristic
· Odour Threshold:	Not applicable.
· pH-value:	Not applicable.
	(Contri on page 4

Page 3/7

Product Name: 10,000 µg/mL Silicon

Page 4/7

acc. to OSHA HCS		

	(Contd. of page
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 100 °C (212 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Decomposition temperature:	Not applicable.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not applicable. Not applicable.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Density at 20 °C (68 °F) · Relative density · Vapor density · Evaporation rate	1.00945 g/cm ³ (8.42386 lbs/gal) Not applicable. Not applicable. Not applicable.
· Solubility in / Miscibility with Water:	Fully miscible.
\cdot Partition coefficient (n-octanol/wate	er): Not applicable.
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.
· Solvent content: Water: VOC content:	93.7 % 0.00 %
Solids content:	0.0 %
• Other information	No further relevant information available.

Safety Data Sheet

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations:
- Toxic
- Harmful

· Carcinogenic categories

· IARC (International Agency for	Research on Can	cer)
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None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.



Product Name: 10,000 µg/mL Silicon

Reviewed on 06/05/2024

(Contd. of page 4)

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number · DOT, ADR, IMDG, IATA	UN3287
 UN proper shipping name DOT ADR IMDG, IATA 	Toxic liquid, inorganic, n.o.s. (Ammonium fluorosilicate) 3287 TOXIC LIQUID, INORGANIC, N.O.S. (AMMONIUM FLUOROSILICATE) TOXIC LIQUID, INORGANIC, N.O.S. (AMMONIUM FLUOROSILICATE)
· Transport hazard class(es)	
·DOT	
· Class	6.1 Toxic substances
·Label	6.1
· ADR, IMDG, IATA	
· Class	6.1 Toxic substances
·Label	6.1
· Packing group · DOT, ADR, IMDG, IATA	111
· Environmental hazards:	Not applicable.
 Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category Stowage Code 	Warning: Toxic substances 60 F-A,S-A (SGG2) Ammonium compounds A SW2 Clear of living quarters.
\cdot Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code \cdot	le Not applicable.
	(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Contd. on page 6)

Product Name: 10,000 µg/mL Silicon

Page 6/7

	(Contd. of page 5)
· Transport/Additional information:	
· ADR · Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3287 TOXIC LIQUID, INORGANIC, N.O.S. (AMMONIUM FLUOROSILICATE), 6.1, III

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. · Sara

· Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.
· TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.
· Hazardous Air Pollutants
None of the ingredients is listed.
· Proposition 65
· Chemicals known to cause cancer:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
· Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
· Carcinogenic categories
· EPA (Environmental Protection Agency)
None of the ingredients is listed.
· TLV (Threshold Limit Value)
None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling: ammonium hexafluorosilicate

- · Hazard statements
- H302 Harmful if swallowed.
- H331 Toxic if inhaled.
- · Precautionary statements
- Avoid breathing dust/fume/gas/mist/vapors/spray P261
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
- P330 Rinse mouth.



Product Name: 10,000 µg/mL Silicon

Safety Data Sheet acc. to OSHA HCS

Reviewed on 06/05/2024

(Contd. of page 6)

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P311 Call a poison center/doctor.

P321 Specific treatment (see on this label).

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: product safety department

· Contact:

Spex CertiPrep, LLC. 1-732-549-7144

· Date of preparation / last revision 06/05/2024

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Acute Toxicity - Oral 4: Acute toxicity – Category 4 Acute Toxicity - Inhalation 3: Acute toxicity – Category 3

Page 7/7

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