SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : **TECKNIT 00002**

Product Code(s) : 72EU00002; 72EU00229; 72EU00155; 72EU00359; 72EU00112F; 72EU00146B; 72EU00146C; 72EU00182; **72EU11004**; 72EU00309; 72EU90016

SDS No. : PHC-010 EU

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

: Moisture cure adhesive / sealant.
Use pattern: professional use.
No restrictions on use known.

1.3 Details of the supplier of the safety data sheet:

Parker Hannifin France
SAS-Etablissement de Saint Ouen l'Aumone-PA du vert
Galant-6/8 avenue du Vert
Galant-95310 Saint Ouen l'Aumone-France

Chomerics Europe
Parker Hannifin Ltd., Seal Group
Unit 6 Century Point
Halifax Road, High Wycombe
Bucks, HP12 3SL
United Kingdom

E-Mail: parker.france@parker.com
Website: www.parkerfrance.fr

Telephone : +33 (01) 34 32 39 00 (France); +44 (0) 1494 455 400 (UK)

1.4 Emergency Telephone Number

: 001-352-323-3500 (INFOTRAC - U.S.)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Paste - silver / tan. Vinegar odour.

Most important hazards:
Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008. Classification:
Skin corrosion/irritation - Category 2; H315
Eye damage/irritation - Category 2; H319
Specific target organ toxicity, single exposure - Category 3; H335

2.2 Label elements

Hazard pictogram(s)

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Signal word:
Warning!

Hazard statements:
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.

Precautionary statements:
P261 - Avoid breathing vapours.
P280 - Wear protective gloves and eye/face protection.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists, get medical advice/attention.
P403 + P233 - Store in a well-ventilated area. Keep container tightly closed.
P501 - Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

Other hazards which do not result in classification:
May slowly hydrolyze in the presence of water to: acetic acid. Acetic acid is harmful. When heated above 150°C in air, may release formaldehyde gas. Burning produces obnoxious and toxic fumes. Inhalation of fumes may result in metal fume fever, a flu-like illness. May cause gastrointestinal irritation. Silver in the form of a finely divided dust may cause discoloration in contact with skin, and argyrosis in case of inhalation.

PBT assessment:
This mixture contains substances considered to be very persistent and very bioaccumulating (vPvB).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature - Mixture of: Inorganic substances in powdered form; silane compounds.

The following substances shall be indicated according to legislation:

Chemical name	CAS #	EC No.	Concentration	CLP Classification
Silver	7440-22-4	231-131-3	**65.0 - 80.0**	Not hazardous. Substances for which there are Community workplace exposure limits.
Siloxanes and silicones, di-Me, hydroxy-terminated	70131-67-8	Polymer	**15.0 - 30.0**	Eye Irrit. 2; H319 (self classified)
Silicon dioxide	7631-86-9	231-545-4	**3.0 - 7.0**	Not hazardous. Substances for which there are Community workplace exposure limits.
Methylsilanetriyl triacetate	4253-34-3	224-221-9	**1.0 - 3.0**	Acute Tox. 4; H302 Skin Corr. 1C; H314 EUH014 (self classified)
Octamethylcyclotetrasiloxane	556-67-2	209-136-7	**1.0 - 2.5**	Repr. 2; H361f Aquatic Chronic 4; H413 vPvB substance
Possible decomposition products in case of hydrolysis are:				
acetic acid	64-19-7	200-580-7	Not known.	Flam. Liq. 3; H226 Skin Corr. 1A; H314

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The following ingredient may be released from the product only when heated above 150°C:				
Formaldehyde	50-00-0	200-001-8	Not known.	Carc. 1B; H350 Muta. 2; H341 *Acute Tox. 3; H301 *Acute Tox. 3; H311 *Acute Tox. 3; H331 Skin Corr. 1B; H314 Skin Sens. 1; H317

*The above CLP Acute toxicity Classifications for the following chemicals are 'Minimum Classifications': formaldehyde.

For the full text of the H phrases not mentioned in this Section or in Section 2, see Section 16.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Ingestion : Do NOT induce vomiting. Never give anything by mouth to a person who is unconscious or is having convulsions. When symptoms persist or in all cases of doubt, seek medical advice.

Inhalation : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel unwell.

Skin contact : If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

: Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.
Causes skin irritation. Contact may cause redness, swelling and a painful sensation.
May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Silver in the form of a finely divided dust may cause discoloration in contact with skin, and argyrosis in case of inhalation.
When heated above 150°C in air, may release formaldehyde gas. Formaldehyde is an eye and throat irritant and acute toxicant. Formaldehyde may cause sensitisation by skin contact. Formaldehyde is classified as carcinogenic. Formaldehyde may cause mutations to non-reproductive (somatic) cells, based on animal data.
May slowly hydrolyze in the presence of water to: acetic acid. Acetic acid is harmful.

4.3 Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

: Carbon dioxide (CO_2); Dry chemical; Alcohol resistant foam.

Unsuitable extinguishing media

: May react with water. Do not use water if possible.

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

5.2 Special hazards arising from the substance or mixture

: May react with water, generating heat. May slowly hydrolyze in the presence of water to: acetic acid. Upon completion of the curing process, these hydrolysis products are no longer released. The pressure in sealed containers can increase under the influence of heat. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Metal oxides; formaldehyde; Silicon oxides

5.3 Advice for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not get water inside containers. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

: Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Wear appropriate protective equipment.

6.2 Environmental precautions

: Avoid release to the environment. Prevent product from entering drains, sewers, waterways and soil.

6.3 Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

6.4 Reference to other sections

: Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

: Use only outdoors or in a well-ventilated area. Wear suitable protective equipment during handling. Wear protective gloves and eye/face protection. Avoid breathing vapors, fumes or dust. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Protect from moisture. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

7.2 Conditions for safe storage, including any incompatibilities

: Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Do not store near any incompatible materials (see Section 10). Keep containers dry and tightly closed to avoid moisture absorption and contamination.

7.3 Specific end use(s) : Adhesives and/or sealants

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:

Chemical Name	Exposure Limits	Type	Notes
acetic acid	10 ppm (25 mg/m³) (TWA)	European Union (OEL)	None.
	5 ppm (13 mg/m³) (TWA) 10 ppm (25 mg/m³) (STEL)	Finland (OEL)	None.
	10 ppm (25 mg/m³) (TWA)	France (OEL)	None.
	10 ppm (25 mg/m³) (TWA)	Germany (OEL)	(exposure factor 2)
	25 mg/m³ (TWA) 25 mg/m³ (STEL)	Hungary (OEL)	None.
	10 ppm (25 mg/m³) (TWA) 15 ppm (37 mg/m³) (STEL)	Ireland (OEL)	None.
	15 mg/m³ (TWA) 30 mg/m³ (STEL)	Poland (OEL)	None.
	10 ppm (25 mg/m³) (TWA) 15 ppm (37 mg/m³) (STEL)	Spain (OEL)	None.
Formaldehyde	0.3 ppm (0.37 mg/m³) (TWA) 1 ppm (1.2 mg/m³) (STEL)	Finland (OEL)	None.
	0.5 ppm (TWA) 1 ppm (STEL)	France (OEL)	None.
	0.6 mg/m³ (TWA) 0.6 mg/m³ (STEL)	Hungary (OEL)	Potential for cutaneous absorption
	0.5 mg/m³ (TWA) 1 mg/m³ (STEL)	Poland (OEL)	Skin notation
	0.3 ppm (0.37 mg/m³) (STEL)	Spain (OEL)	None.
	2 ppm (2.5 mg/m³) (TWA) 2 ppm (2.5 mg/m³) (STEL)	The United Kingdom (The United Kingdom (WELs))	None.
Methylsilanetriyl triacetate	None known.	European Union (OEL)	None.
Octamethylcyclotetrasiloxane	None known.	European Union (OEL)	None.
Silicon dioxide	4 mg/m³ (inhalable); 0.3 mg/m³ (respirable dust) (TWA)	Austria (OEL)	None.
	0.1 mg/m³ (TWA)	Bulgaria (OEL)	None.
	4 mg/m³ (inhalable) (TWA)	Germany (OEL)	None.
	6 mg/m³ (inhalable); 2.4 mg/m³ (respirable dust) (TWA) 18 mg/m³ (inhalable); 7.2 mg/m³ (respirable dust) (STEL)	The United Kingdom (The United Kingdom (WELs))	None.

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Siloxanes and silicones, di-Me, hydroxy-terminated			
	None known.	European Union (OEL)	None.
Silver	0.1 mg/m³ (TWA)	European Union (OEL)	None.
	0.1 mg/m³ (TWA)	Finland (OEL)	None.
	0.1 mg/m³ (TWA)	France (OEL)	None.
	0.1 mg/m³ (inhalable) (TWA)	Germany (OEL)	(exposure factor 8)
	0.1 mg/m³ (TWA) 0.4 mg/m³ (STEL)	Hungary (OEL)	None.
	0.1 mg/m³ (TWA)	Italy (OEL)	None.
	0.05 mg/m³ (TWA)	Poland (OEL)	None.
	0.1 mg/m³ (TWA)	Spain (OEL)	None.
	0.1 mg/m³ (TWA)	The United Kingdom (The United Kingdom (WELs))	None.

Biological Exposure Indices:
No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL):
No information available.

Predicted No Effect Concentration (PNEC):
No information available.

8.2 Exposure controls

Ventilation and engineering measures
: Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. Advice should be sought from respiratory protection specialists.

Skin protection : Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it. Wear sufficient clothing to prevent skin contact.

Eye / face protection : Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary. See also EN 166.

Other protective equipment
: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations
: Avoid breathing vapors, fumes or dust. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance : Medium paste (Solid.) - silver / tan
Odour : vinegar-like
Odour threshold : No information available.
pH : No information available.
Flash point : None.
Flashpoint (Method) : No information available.
Lower flammable limit (% by vol.)
: No information available.
Upper flammable limit (% by vol.)
: No information available.
Flammability (solid, gas) : Not applicable.
Auto-ignition temperature
: No information available.
Decomposition temperature
: No information available.
Oxidizing properties : None known.
Explosive properties : Not explosive
Initial boiling point and boiling range
: No information available.
Melting/Freezing point : No information available.
Relative density : 2.8
Solubility in water : Insoluble. May react with water.
Other solubility(ies) : No information available.
Vapour pressure : No information available.
Vapour density : Heavier than air.
Partition coefficient: n-octanol/water
: No information available.
Viscosity : No information available.
Evaporation rate (BuAe = 1)
: No information available.

9.2 Other Information

Volatiles (% by weight) : < 2.0%
Volatile organic Compounds (VOC's)
: No information available.
Other physical/chemical comments
: No additional information.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : May react with water. May slowly hydrolyze in the presence of water to: acetic acid. Upon completion of the curing process, these hydrolysis products are no longer released.

10.2 Chemical stability : When heated above 150°C in air, may release formaldehyde gas. Stable under normal conditions.

10.3 Possibility of hazardous reactions
: Hazardous polymerization does not occur.

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

10.4 Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials. Avoid excessive moisture.

10.5 Incompatible materials

: Strong oxidizing agents; Strong acids; Strong bases; Water

10.6 Hazardous decomposition products

: Peroxides
Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Metal oxides; formaldehyde; Silicon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.

Skin corrosion/Irritation : This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008.
Classification:
Skin corrosion/irritation - Category 2. Causes skin irritation.

Serious eye damage/irritation

: This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008.
Classification:
Eye damage/irritation - Category 2. Causes serious eye irritation.

Respiratory or skin sensitisation

: According to the classification criteria of the European Union, this product is not considered as being an allergic respiratory sensitiser.
According to the classification criteria of the European Union, this product is not considered as being an allergic skin sensitiser.
Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde may cause sensitisation by skin contact.

Germ cell mutagenicity : Contains no ingredient listed as a mutagen.
Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde may cause mutations to non-reproductive (somatic) cells, based on animal data.

Carcinogenicity : Contains no ingredient listed as a carcinogen
Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde is classified as carcinogenic.

Reproductive toxicity : Contains no ingredient listed as toxic to reproduction.

STOT-single exposure : This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008.
Classification:
Specific target organ toxicity, single exposure - Category 3. May cause respiratory irritation.

STOT-repeated exposure : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.

Aspiration hazard : According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.

Toxicological data : No data is available on the product itself. The calculated ATE values for this mixture are:
ATE dermal = 114 428 mg/kg

See below for individual ingredient acute toxicity data.

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Chemical name	LC_{50}(4hr) inh, rat	LD_{50} (Oral, rat)	LD_{50} (Rabbit, dermal)
Silver	> 5.16 mg/L (dust) (No mortality)	> 2000 mg/kg (No mortality)	> 2000 mg/kg (No mortality)
Siloxanes and silicones, di-Me, hydroxy-terminated	> 11.59 mg/L (mist)	> 15 400 mg/kg	> 2000 mg/kg
Silicon dioxide	No information available.	3160 mg/kg	> 5000 mg/kg
Methylsilanetriyl triacetate	No information available.	1602 mg/kg	No information available.
Octamethylcyclotetrasiloxane	36 mg/L (aerosol)	> 4800 mg/kg	> 2400 mg/kg (No mortality)
Possible decomposition products in case of hydrolysis are:			
acetic acid	11.4 mg/L	3310 mg/kg	1060 mg/kg
The following ingredient may be released from the product only when heated above 150°C:			
Formaldehyde	287 ppm	800 mg/kg (rat) The estimated human lethal dose is: 317 - 475 mg/kg	300 mg/kg

Routes of exposure : Eye contact; Skin contact; Inhalation; Ingestion

Effects of acute exposure : *Inhalation:* May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath. Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde causes severe respiratory irritation, lung inflammation and pulmonary edema.

Skin contact: Causes skin irritation. Contact may cause redness, swelling and a painful sensation.

Eye contact: Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potential Chronic Health Effects : Silver in the form of a finely divided dust may cause discoloration in contact with skin, and argyrosis in case of inhalation.

Other important hazards : May slowly hydrolyze in the presence of water to: acetic acid. Acetic acid is harmful.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity : No data is available on the product itself. Should not be released into the environment. Contains: Silver. The acute toxicity of silver to aquatic species varies drastically by the chemical form and correlates with the availability of free ionic silver. Aquatic toxicity is highly variable not only by organism but with physical and chemical characteristics of the water itself.

See the following tables for individual ingredient ecotoxicity data.

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Ecotoxicity data:

Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Silver	7440-22-4	No information available.	No information available.	None.
Siloxanes and silicones, di-Me, hydroxy-terminated	70131-67-8	No information available.	No information available.	No information available.
Silicon dioxide	7631-86-9	No information available.	No information available.	None.
Methylsilanetriyl triacetate	4253-34-3	No information available.	No information available.	None.
Octamethylcyclotetrasiloxane	556-67-2	> 500 mg/L (Zebra fish)	No information available.	None.
Formaldehyde	50-00-0	6,7 mg/L (Striped bass)	≥ 48 mg/L/28-day (Japanese ricefish)	None.
acetic acid	64-19-7	> 300.82 mg/L (Zebra fish)	No information available.	None.

Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Silver	7440-22-4	No information available.	No information available.	None.
Siloxanes and silicones, di-Me, hydroxy-terminated	70131-67-8	No information available.	No information available.	No information available.
Silicon dioxide	7631-86-9	No information available.	No information available.	None.
Methylsilanetriyl triacetate	4253-34-3	No information available.	No information available.	None.
Octamethylcyclotetrasiloxane	556-67-2	25.2 mg/L/24hr (Daphnia magna)	No information available.	None.
Formaldehyde	50-00-0	5,8 mg/L (Daphnia magna)	No information available.	None.
acetic acid	64-19-7	65 mg/L (Daphnia magna)	37.9 mg/L	None.

Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Silver	7440-22-4	No information available.	No information available.	None.
Siloxanes and silicones, di-Me, hydroxy-terminated	70131-67-8	No information available.	No information available.	No information available.
Silicon dioxide	7631-86-9	No information available.	No information available.	None.
Methylsilanetriyl triacetate	4253-34-3	No information available.	No information available.	None.
Octamethylcyclotetrasiloxane	556-67-2	No information available.	No information available.	None.
Formaldehyde	50-00-0	14,7 mg/L/24hr (Green algae)	No information available.	None.
acetic acid	64-19-7	No information available.	No information available.	None.

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

12.2 Persistence and degradability

: The product itself has not been tested.
The following ingredients are considered to be readily biodegradable: Methylsilanetriyl triacetate.
Contains the following chemicals which are not readily biodegradable: silver; Silicon dioxide; Octamethylcyclotetrasiloxane.

12.3 Bioaccumulation potential

: The product itself has not been tested. See the following data for ingredient information.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Octamethylcyclotetrasiloxane (CAS 556-67-2)	6.49	12 400 (steady-state) (Fathead minnow) 13 400 (kinetic) (Fathead minnow)
Formaldehyde (CAS 50-00-0)	0.35	3
acetic acid (CAS 64-19-7)	- 0.17	3.2

12.4 Mobility in soil : The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

: This mixture contains substances considered to be very persistent and very bioaccumulating (vPvB).
Contains: Octamethylcyclotetrasiloxane.
Octamethylcyclotetrasiloxane has a half life in sediment of > 728 days (Canadian Environmental Protection Agency).
Octamethylcyclotetrasiloxane has a half-life in water of 37.5 days (Canadian Environmental Protection Agency).

12.6 Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way.

Methods of Disposal : Empty containers may contain hazardous residues. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken for local recycling or waste disposal.
Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. Waste codes should be assigned by the user based on the application for which the product was used. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	**14.1 UN Number**	**14.2 UN proper shipping name**	**14.3 Transport hazard class(es)**	**14.4 Packing Group**	*Label*
ADR/RID	None.	Not regulated	Not regulated	None	
EU ADR/RID Classification Code	Not applicable.				
EU ADR / RID Hazard Identification Number	Not applicable.				
ADR/RID Additional information	Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.				
ICAO/IATA	None.	Not regulated.	Not regulated	None	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	Not regulated	None	
IMDG Additional information	None.				

14.5 Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

14.6 Special precautions for user

: Appropriate advice on safety must accompany the package. Keep containers dry and tightly closed to avoid moisture absorption and contamination.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 15. REGULATORY INFORMATION

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

: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures.

Authorisations
Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:
None of the components are specifically listed.

Restrictions on use
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended:
None of the components are specifically listed.

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances:
None.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:
Polydimethylsiloxane (CAS # 70131-67-8)
Methylsilanetriyl triacetate (CAS # 4253-34-3)
Octamethylcyclotetrasiloxane (CAS # 556-67-2)

Directive 94/33/EC on the protection of young people at work:
Methylsilanetriyl triacetate (CAS # 4253-34-3)

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2015/830].

Follow national regulation for work with chemical agents.

German legislation on water endangering substances VwVwS - Water contaminating class (Germany): 1 (self classified)

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 16. OTHER INFORMATION

Legend : ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE: Acute Toxicity Estimate
CAS: Chemical Abstract Services
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
EC: European Community
EC50: Effective Concentration 50%.
EEC: European Economic Community
EN: European Standard
ERG: Emergency Response Guidebook
EU: European Union
HSDB: Hazardous Substances Data Bank
IATA: International Air Transport Association
IBC: Intermediate Bulk Container
IMDG: International Maritime Dangerous Goods
LC: Lethal Concentration
LD: Lethal Dose
NOEC: No observable effect concentration
OEL: National occupational exposure limits
PEL: Permissible exposure limit
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
RTECS: Registry of Toxic Effects of Chemical Substances
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
WEL: Workplace Exposure Limit

Information Source :
1. Material Safety Data Sheet from manufacturer.
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2015 (Chempendium, RTECs, HSDB, INCHEM).
3. European Chemicals Agency, Classification Legislation, 2015.
4. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015

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Revision No. : 2

Revision Information : Minor formatting change.

H-Phrases (Full text) :
H226 - Flammable liquid and vapour.
H301 - Toxic if swallowed.
H302 - Harmful if swallowed.
H311 - Toxic in contact with skin.
H314 - Causes severe skin burns and eye damage.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H331 - Toxic if inhaled.
H335 - May cause respiratory irritation.
H341 - Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H350 - May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H361f - Suspected of damaging fertility.
H413 - May cause long lasting harmful effects to aquatic life.
EUH014 - Reacts violently with water.

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

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