

Trade name: SEAM GRIP +SIL**Current version :** 5.0.0, issued: 14.06.2023**Replaced version:** 4.0.0, issued: 04.02.2022**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****SEAM GRIP +SIL****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Sealer for silicone based fabrics.

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**

Gear Aid Europe GmbH

Saarstrasse 5

29664 Walsrode

Telephone no. +49 (0)5161-41805-0

Fax no. +49 (0)5161-418-0511

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Flam. Liq. 3; H226

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS02

Signal word

Warning

Hazard statement(s)

H226

Flammable liquid and vapour.

Hazard statements (EU)

EUH208

Contains N-[3-(triethoxysilyl)propyl]ethylenediamine, trimethoxy(vinyl)silane, 3-aminopropyltriethoxysilane. May produce an allergic reaction.

Precautionary statement(s)

P102

Keep out of reach of children.

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P243	Take action to prevent static discharges.
P370+P378	In case of fire: Use sand, fire powder, carbon dioxide or foam to extinguish.
P501	Dispose of contents/container to a facility in accordance with local and national regulations.

2.3 Other hazards

Product hydrolyses to form methanol (CAS No. 67-56-1) and ethanol (CAS No. 64-17-5). Methanol and ethanol are classified with respect to physical hazards and health hazards. The rate of hydrolysis and thus the relevance for the hazard potential of the product are strongly dependent on the specific conditions.

PBT assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration
			%
1	AMINOFUNCTIONAL METHYLSILSESQUIXANE		
	128446-60-6	Eye Irrit. 2; H319	< 5.00
	-	Flam. Liq. 3; H226	wt%
	-	Skin Irrit. 2; H315	
2	N-[3-(triethoxysilyl)propyl]ethylenediamine		
	5089-72-5	Skin Irrit. 2; H315	< 2.50
	225-806-1	Skin Sens. 1B; H317	wt%
	-	Eye Dam. 1; H318	
	01-2120767929-30		
3	trimethoxy(vinyl)silane		pls. refer to footnote (2)
	2768-02-7	Skin Sens. 1B; H317	< 2.50
	220-449-8	Acute Tox. 4; H332	wt%
	014-049-00-0	Flam. Liq. 3; H226	
	01-2119513215-52		
4	3-aminopropyltriethoxysilane		pls. refer to footnote (1)
	919-30-2	Acute Tox. 4; H302	< 2.50
	213-048-4	Skin Corr. 1B; H314	wt%
	612-108-00-0	Skin Sens. 1; H317	
	-	Eye Dam. 1; H318	
5	Silicic acid (H₄SiO₄), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane		
	93925-42-9	Flam. Liq. 3; H226	< 0.50
	300-344-4	Acute Tox. 4; H302	wt%
	-	Acute Tox. 4; H332	
	01-2119560586-30	Eye Dam. 1; H318	
		Muta. 2; H341	
		Repr. 1B; H360FD	
		STOT SE 1; H370	
		STOT RE 1; H372	
		Aquatic Chronic 3; H412	
6	octamethylcyclotetrasiloxane		pls. refer to footnote (1)

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556-67-2 209-136-7 014-018-00-1 -	Aquatic Chronic 1; H410 Repr. 2; H361f*** Flam. Liq. 3; H226	< 0.10	wt%
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Full Text for all H-phrases and EUH-phrases: pls. see section 16

(*, **, ***, ****) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

(1) Aberrant from/in addition to the classification set out in Annex VI, this substance is classified according to European Regulation (EC) No 1272/2008 (CLP), Article 4 (3), paragraph 2.

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
6	-	-	-	M = 10

No	Route, target organ, concrete effect
5	H370 oral; thymus; - H372 -; Thyroid; -

Acute toxicity estimate (ATE) values

No	oral	dermal	inhalative
5	1000 mg/kg bodyweight		13,5 mg/l

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Remove contaminated clothing immediately and dispose of safely. In case of persisting adverse effects, consult a physician.

After inhalation

Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

After skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical assistance.

After ingestion

Call a doctor immediately. Rinse the mouth thoroughly with water. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Methanol (CAS 67-56-1) is well and rapidly absorbed via all routes of exposure and is toxic regardless of the route of ingestion. Methanol can cause irritation of the mucous membranes, nausea, vomiting, headache, dizziness, and visual disturbances, as well as blindness (irreversible damage to the optic nerve), acidosis, muscle cramps and coma. There may be delays in the onset of these effects after exposure. Further information on toxicology in section 11 should be noted.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Foam; Carbon dioxide; Dry chemical extinguisher; Water mist

Unsuitable extinguishing media

High power water jet

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In case of fires, hazardous combustion gases are formed: Carbon dioxide (CO₂); Carbon monoxide (CO); Nitrous oxides (NO_x)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Containers close to fire should be transferred to a safe place. Cool closed containers exposed to fire with water.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Keep away from ignition sources.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). When collected, handle material as described under the section heading "Disposal considerations". Do not flush with water or aqueous cleaning agents.

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Avoid formation of aerosols.

General protective and hygiene measures

Observe the usual precautions when handling chemicals. Do not eat, drink or smoke during work time. After worktime and during work intervals the affected skin areas must be thoroughly cleaned. Avoid contact with eyes and skin.

Advice on protection against fire and explosion

Pay attention to general rules of internal fire prevention. Keep away from ignition sources and provide for good ventilation. Vapours can form an explosive mixture with air. Product can release methanol and ethanol.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed in a cool, well-ventilated place. Protect from atmospheric moisture and water.

Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed.

Incompatible products

Do not store together with: Acids

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value

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1	Silicic acid (H₄SiO₄), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane			93925-42-9 300-344-4
	dermal	Long term (chronic)	systemic	0.006 mg/kg/day
	inhalative	Long term (chronic)	systemic	950 mg/m ³
	inhalative	Long term (chronic)	local	950 mg/m ³
	inhalative	Short term (acut)	systemic	1900 mg/m ³
	inhalative	Short term (acut)	local	1900 mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	Silicic acid (H₄SiO₄), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane			93925-42-9 300-344-4
	oral	Long term (chronic)	systemic	0.003 mg/kg/day
	oral	Short term (acut)	systemic	0.003 mg/kg/day
	dermal	Long term (chronic)	systemic	0.003 mg/kg/day
	dermal	Short term (acut)	systemic	0.003 mg/kg/day
	inhalative	Long term (chronic)	systemic	106 mg/m ³
	inhalative	Short term (acut)	systemic	212 mg/m ³
	inhalative	Long term (chronic)	local	425 mg/m ³
	inhalative	Short term (acut)	local	950 mg/m ³

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	Silicic acid (H₄SiO₄), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane		93925-42-9 300-344-4
	water	fresh water	0.001 mg/L
	water	marine water	0 mg/L
	water	Aqua intermittent	0.014 mg/L
	sewage treatment plant	-	100 mg/L
	secondary poisoning	-	0.2 mg/kg food

8.2 Exposure controls**Appropriate engineering controls**

No data available.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Multi-range filter ABEK/P2

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	butyl rubber		
Material thickness	>	0.3	mm
Breakthrough time	>	480	min
Appropriate Material	nitrile rubber		
Material thickness	>	0.4	mm
Breakthrough time	10	- 30	min

Other

Normal chemical work clothing.

Environmental exposure controls

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No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

State of aggregation		
liquid		
Form		
paste		
Colour		
colourless		
Odour		
pleasant		
pH value		
Not applicable		
Comments	insoluble	
Boiling point / boiling range		
No data available		
Melting point/freezing point		
No data available		
Decomposition temperature		
No data available		
Flash point		
Value	54	°C
Method	ISO 3679	
Source	supplier	
Ignition temperature		
No data available		
Auto-ignition temperature		
Value	419	°C
Method	DIN EN 14522	
Source	supplier	
Flammability		
No data available		
Lower explosion limit		
Value	5.5	% vol
Reference substance	Methanol	
Source	supplier	
Value	3.5	% vol
Reference substance	Ethanol	
Source	supplier	
Upper explosion limit		
Value	44	% vol
Reference substance	Methanol	
Source	supplier	
Value	15	% vol
Reference substance	Ethanol	
Source	supplier	
Vapour pressure		
No data available		
Relative vapour density		

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No data available

Relative density

No data available

Density

Value	1.01	g/cm ³
Reference temperature	23	°C
Reference pressure	1013	hPa
Method	ISO 2811	
Source	supplier	

Solubility in water

Source	supplier
Comments	essentially insoluble

Solubility

No data available

Partition coefficient n-octanol/water (log value)

No data available

Kinematic viscosity

Value	10000	mPa*s
Reference temperature	25	°C
Type	dynamic	
Method	ISO 3219	
Source	supplier	
Comments	at a shear force of 25/s	
Value	15000	mPa*s
Reference temperature	25	°C
Type	dynamic	
Source	supplier	
Comments	at a shear force of 0,5/s	

Particle characteristics

No data available

9.2 Other information**Other information**

No data available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2 Chemical stability

Stable if stored and handled properly.

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

Moisture. Heat, naked flames and other ignition sources.

10.5 Incompatible materials

Acids; Bases; Water

10.6 Hazardous decomposition products

In case of fire: see section 5. Reacts with water liberating methanol. Reacts with water liberating ethanol.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	Silicic acid (H ₄ SiO ₄), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane	93925-42-9	300-344-4
LD50		1000	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		
Acute dermal toxicity			
No data available			
Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	Silicic acid (H ₄ SiO ₄), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane	93925-42-9	300-344-4
LC50	>	13.5	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
Skin corrosion/irritation			
No data available			
Serious eye damage/irritation			
No data available			
Respiratory or skin sensitisation			
No data available			
Germ cell mutagenicity			
No data available			
Reproduction toxicity			
No data available			
Carcinogenicity			
No data available			
STOT - single exposure			
No data available			
STOT - repeated exposure			
No data available			
Aspiration hazard			
No data available			

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

The hydrolysis product methanol (CAS 67-56-1) is well and rapidly absorbed via all routes of exposure and is toxic regardless of the route of ingestion. Methanol can cause irritation of the mucous membranes, nausea, vomiting, headache, dizziness, and visual disturbances, as well as blindness (irreversible damage to the optic nerve), acidosis, muscle cramps and coma. There may be delays in the onset of these effects after exposure.

The hydrolysis product ethanol (64-17-5) is well and rapidly absorbed via all routes of exposure. Ethanol may cause irritation of the eyes and mucous membranes as well as central nervous system disorders, nausea and dizziness. Chronic exposure to larger amounts of ethanol may cause damage to the liver and central nervous system.

SECTION 12: Ecological information

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12.1 Toxicity

Toxicity to fish (acute)			
No data available			
Toxicity to fish (chronic)			
No data available			
Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane	93925-42-9	300-344-4
EC50	>	150	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
Toxicity to Daphnia (chronic)			
No data available			
Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane	93925-42-9	300-344-4
EL50	>	320	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
Toxicity to algae (chronic)			
No data available			
Bacteria toxicity			
No data available			

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT. According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.
vPvB assessment	

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information
Do not discharge into surface waters/groundwater.

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D4 (CAS 556-67-2) is an unavoidable impurity in silicone polymer production and leads to adverse effects on aquatic organisms under laboratory conditions. It has been experimentally shown that, taking into account the silicone/water partition equilibrium, no concentration can be reached in water from a polysiloxane matrix containing up to 3% D4 that would lead to effects in an OECD chronic ecotoxicity test. Accordingly, up to this limit, D4 does not contribute to a hazard from silicone polymers.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3, 40

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	3-aminopropyltriethoxysilane	919-30-2	213-048-4	75

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2	Silicic acid (H ₄ SiO ₄), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane	93925-42-9	300-344-4	20
3	trimethoxy(vinyl)silane	2768-02-7	220-449-8	75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category: P5c

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects
H360FD	May damage fertility. May damage the unborn child.
H361f	Suspected of damaging fertility.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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