

Safety data sheet
according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

1 Identification

· **Product identifier**

· **Trade name: SG250**

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

· **Product category** PC9a Coatings and paints, thinners, paint removers

· **Application of the substance / the mixture** Coating agent

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

HOTTINGER BRUEL & KJAER UK LTD
Advanced Manufacturing Park Technology Centre
Brunel Way, Catcliffe, Rotherham
South Yorkshire, S60 5WG
United Kingdom
Phone: +44 (0) 1145 512230
Email: info@uk.hbm.com

· **Informing department:**

Tel. +49(0)6131 19240
EMail support-esa@hbkworld.com

· **Emergency telephone number:**

Gift-Informationszentrum Nord, Göttingen
Poison Information Center, Göttingen
Tel.: +49 (0)551 19240
(German and English only)

United Kingdom:

National Poisons Information Service
Emergency number: +44 844 892 0111

Poisons Information Centre of Ireland:

+353 1 837 9964 for medical professionals
+353 1 809 2166 for public inquiries
CHEMTREC: +44 20 3807 3798 (24h emergency call).
Outside continental USA please call CHEMTREC at +1-703-527-3887 (R-calls are accepted).

2 Hazards identification

· **Classification of the substance or mixture**



GHS08 health hazard

STOT RE 2 H373 May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

· **Label elements**

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

(Contd. on page 2)

Safety data sheet

according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: SG250

(Contd. from page 1)

- **Hazard pictograms**



GHS08

- **Signal word** Warning

- **Hazard-determining components of labelling:**

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

- **Hazard statements**

H373 May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Precautionary statements**

P260 Do not breathe mist/vapours/spray.

P314 Get medical advice/attention if you feel unwell.

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

- **Additional information:**

Please refer to further labelling elements in section 15 of this safety data sheet, if applicable.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:**

540-97-6	Dodecamethylcyclohexasiloxane
556-67-2	octamethylcyclotetrasiloxane
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

- **vPvB:**

540-97-6	Dodecamethylcyclohexasiloxane
556-67-2	octamethylcyclotetrasiloxane
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

3 Composition/information on ingredients

- **Chemical characterisation: Mixtures**

- **Description:** Mixture of the substances listed below, possibly with undeclared additives.

- **Dangerous components:**

68909-20-6	silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica STOT RE 2, H373	10 - 25%
1185-55-3	trimethoxy(methyl)silane Flam. Liq. 2, H225	0 - 10%
67-56-1	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	≥ 2.5 - < 3%
540-97-6	Dodecamethylcyclohexasiloxane Flammable liquids 4, H227 PBT; vPvB	0 - ≤ 1%

(Contd. on page 3)

Safety data sheet

according SS 586 : Part 3

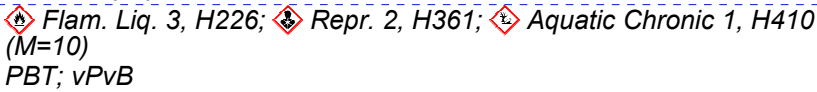
Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: SG250

(Contd. from page 2)

556-67-2	octamethylcyclotetrasiloxane 	$\geq 0.025 - < 0.25\%$
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane Flammable liquids 4, H227 PBT; vPvB	$0 - \leq 0.25\%$

- **SVHC**

540-97-6	Dodecamethylcyclohexasiloxane
556-67-2	octamethylcyclotetrasiloxane
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- **Description of first aid measures**
- **General information**
 Personal protection for the First Aider.
 If symptoms occur or in case of doubt consult a doctor.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**
 Instantly wash with water and soap and rinse thoroughly.
 Remove contaminated clothing immediately.
 If skin irritation continues, consult a doctor.
- **After eye contact**
 Rinse opened eye for several minutes under running water. Then consult doctor.
 Remove contact lenses if possible.
- **After swallowing**
 Rinse out mouth and then drink plenty of water.
 Do not induce vomiting.
 In case of persistent symptoms consult 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**
 Alcohol-resistant foam, extinguishing powder or carbon dioxide. Fight larger fire with water spray.
 Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards arising from the substance or mixture**
 Inhalation of combustion gases may cause serious health hazards.
 Can be released in case of fire:
 Carbon monoxide and carbon dioxide
- **Advice for firefighters**
- **Protective equipment:**
 Wear self-contained breathing apparatus.

(Contd. on page 4)

Safety data sheet

according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: SG250

(Contd. from page 3)

Wear protective clothing.

- **Additional information** Remove goods in stock from incendiary zone, if possible.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Use breathing protection against the effects of fumes/dust/aerosol.
Ensure adequate ventilation
- **For non-emergency personnel** Avoid contact with the product.
- **For emergency responders** Put on suitable personal protective equipment.
- **Environmental precautions:** Do not allow to enter drainage system, ground/soil and water bodies.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Dispose of the material collected according to regulations.
- **Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

7 Handling and storage

- **Precautions for safe handling**
Do not eat, drink or smoke while working.
Avoid contact with eyes, skin and clothes.
Ensure sufficient ventilation.
- **Information about protection against explosions and fires:** No special measures required.
- **Handling**
Do not eat, drink or smoke while working.
Avoid direct contact with eyes, skin and clothing.
Wash hands during breaks and at the end of the work.
Wash contaminated clothing before re-use.
Keep away from foodstuffs, beverages and food.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store container tightly sealed at a cool place.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
WEL: workplace exposure limit
OEL: Occupational Exposure Limit

(Contd. on page 5)

SG

Safety data sheet

according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: SG250

(Contd. from page 4)

67-56-1 methanol

PEL (Singapore)	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm
WSH (Singapore)	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm
PEL (Malaysia)	Long-term value: 262 mg/m ³ , 200 ppm (kulit)
WEL (Great Britain)	Short-term value: 333 mg/m ³ , 250 ppm Long-term value: 266 mg/m ³ , 200 ppm Sk

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke while working.

Avoid direct contact with eyes, skin and clothing.

Take off all contaminated clothing immediately.

Wash contaminated clothing before re-use.

Keep away from foodstuffs, beverages and food.

· **Breathing equipment:**

Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure. In case of insufficient ventilation, wear suitable respiratory equipment.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

· **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.

Butyl rubber, BR

Recommended material thickness: 0.3 mm, breakthrough time: 480 min.

Nitrile rubber, NBR

Recommended material thickness: 0.4 mm, breakthrough time: 30 min.

· **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:** Safety glasses recommended if possibility of liquid splashes exists.

SG

(Contd. on page 6)

Safety data sheet

according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: SG250

(Contd. from page 5)

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Physical state	Liquid
· Colour:	Whitish
· Odour:	Not distinguishable
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Melting point/freezing point:	Not determined
· Initial boiling point and boiling range:	> 65 °C
· Flash point:	> 101 °C
· Evaporation rate	Not determined.
· Inflammability (solid, gaseous)	Not applicable.
· Critical values for explosion:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapour pressure:	Not determined.
· Vapour density	Not determined.
· Density	Not determined
· Relative density	Not determined.
· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix
· Partition coefficient: n-octanol/water:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Decomposition temperature:	Not determined.
· SADT	
· Viscosity:	
· kinematic:	Not determined.
· dynamic:	Not determined.
· Particle characteristics	No further details.

· Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.

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.

(Contd. on page 7)

SG

Safety data sheet

according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: SG250

(Contd. from page 6)

- **Hazardous decomposition products:**
None in case of intended use and storage in compliance with instructions.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimates)

Oral	LD50	> 3,333 mg/kg
Dermal	LD50	> 10,000 mg/kg
Inhalative	LC50	> 100 mg/l/4h

1185-55-3 trimethoxy(methyl)silane

Oral	LD50	12,500 mg/kg (Rat)
Dermal	LD50	> 10,000 mg/kg (Rat)

67-56-1 methanol

Oral	LD50	7,000 - 9,000 mg/kg (rhesus monkey)
		> 5,000 mg/kg (pig)
	LDL0	> 2,528 mg/kg (Rat)
Dermal	LD50	17,100 mg/kg (rabbit)
Inhalative	LC50	128.2 mg/l/4h (Rat)
	LC50	43.7 mg/l/6h (cat)

556-67-2 octamethylcyclotetrasiloxane

Oral	LD50	> 4,800 mg/kg (Rat) (OECD 401)
Dermal	LD50	> 2,400 mg/kg (Rat) (OECD 402)

541-02-6 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

Oral	LDL0	> 5,000 mg/kg (Rat) (OECD 401)
Dermal	LD0	> 2,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50	8.67 mg/l/4h (Rat) (OECD 403)

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

1185-55-3 trimethoxy(methyl)silane

EC50 (dynamic)	> 122 mg/l/48h (Daphnia magna) (OECD 202)
IC50	> 3.6 mg/l/72h (Raphidocelis subcapitata) (OECD 201)
LC50 (dynamic)	> 110 mg/l/96h (fish) (OECD 203)

67-56-1 methanol

LC50	15,400 mg/l (fish)
------	--------------------

(Contd. on page 8)

Safety data sheet

according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: SG250

(Contd. from page 7)

EC50 (static)	22,000 mg/l/96h (<i>Raphidocelis subcapitata</i>) (OECD 201) 18,260 mg/l/96h (<i>Daphnia magna</i>) 15,400 mg/l/96h (<i>Lepomis macrochirus</i>)
556-67-2 octamethylcyclotetrasiloxane	
EC50	> 0.022 mg/l/96h (<i>Oncorhynchus mykiss</i>) (OTS 797.1400)
LC50 (dynamic)	> 0.022 mg/l/96h (<i>Oncorhynchus mykiss</i>) (EPA OTS 797.1400)
<ul style="list-style-type: none"> · Persistence and degradability Heavily biodegradable · Other information: There are no data available about the preparation. · Bioaccumulative potential No further relevant information available. · Mobility in soil No further relevant information available. · Results of PBT and vPvB assessment 	
· PBT:	
540-97-6	Dodecamethylcyclohexasiloxane
556-67-2	octamethylcyclotetrasiloxane
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane
· vPvB:	
540-97-6	Dodecamethylcyclohexasiloxane
556-67-2	octamethylcyclotetrasiloxane
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane
<ul style="list-style-type: none"> · Other adverse effects No further relevant information available. · Additional ecological information: · General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water bodies or sewage system. Danger to drinking water if even small quantities leak into soil. 	

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:**
Dispose of packaging according to regulations on the disposal of packagings.
Non contaminated packagings can be used for recycling.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

14 Transport information

- **UN-Number**
- **ADR/RID, IMDG, IATA** Void
- **UN proper shipping name**
- **ADR/RID, ADN, IMDG, IATA** Void

(Contd. on page 9)

SG

Safety data sheet

according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: SG250

(Contd. from page 8)

· Transport hazard class(es)	
· ADR/RID, ADN, IMDG	
· Class	Void
· IATA	
· Class	Void Not Restricted.
· Packing group	
· ADR/RID, IMDG, IATA	Void
· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· Special precautions for user	Not applicable.
· UN "Model Regulation":	Void

15 Regulatory information

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

· **Poisons Act - Schedule 1**

None of the ingredients is listed.

· **Poisons Act - Schedule 2, Group II**

None of the ingredients is listed.

· **Health Products Act - First Schedule - Psychotropic Substances**

None of the ingredients is listed.

· **National regulations**

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

· **Substances of very high concern (SVHC) according to REACH, Article 57**

540-97-6 Dodecamethylcyclohexasiloxane

556-67-2 octamethylcyclotetrasiloxane

541-02-6 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

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

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H227 Combustible liquid.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

(Contd. on page 10)

-SG

Safety data sheet according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: SG250

(Contd. from page 9)

*H331 Toxic if inhaled.**H361 Suspected of damaging fertility or the unborn child.**H370 Causes damage to organs.**H371 May cause damage to organs.**H373 May cause damage to organs through prolonged or repeated exposure.**H410 Very toxic to aquatic life with long lasting effects.*

· **Department issuing data specification sheet:**

► **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
phone: (+49) 511 42079 - 0, reach@dekra.com.

© DEKRA Assurance Services GmbH. Changing this documents is subject to explicit acceptance by DEKRA Assurance Services GmbH.

· **Kit-Components:**

· **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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Flammable liquids 4: Flammable liquids – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Repr. 2: Reproductive toxicity – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· *** Data compared to the previous version altered.**