

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 08/31/2025

Version number 1

Revision: 08/21/2025

1 Identification

- **Product identifier**
- **Trade name: SG250**
- **Other means of identification**
- **Application of the substance / the mixture** Coating agent
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Hottinger Brüel & Kjaer GmbH
Im Tiefen See 45
D-64293 Darmstadt
Germany
Tel: +49 6151 803 0
E-Mail: info@hbkworld.com
<https://www.hbkworld.com>
- **Information department:**
Tel. +49(0)6131 19240
EMail support-esa@hbkworld.com
- **Emergency telephone number:**
Canada:
+1 800 332 1414 (Alberta, NW Territories);
+1 866 454 1212 (Saskatchewan);
+1 403 944 1414 (Calgary, outside Alberta, VOIP users)
Poison and Drug Information Services
Foothills Medical Centre
1403 29th Street N.W.
T2N 2T9 Calgary

National Capital Poison Center, U.S.A.:
1-800-222-1222
3201 New Mexico Ave Ste 310
20016 Washington, DC
USA
CHEMTREC: +1 703-741-5970 (24h emergency call).
Outside continental USA please call CHEMTREC at +1-703-527-3887 (R-calls are accepted).

2 Hazard identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Reproductive Toxicity - Category 2

H361 Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (repeated exposure) – Category 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 labeled according to the Globally Harmonized System (GHS).

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- **Hazard pictograms**



GHS08

- **Signal word** Warning

- **Hazard-determining components of labeling:**

Silicon dioxide, highly dispersed, amorphous, hydrophobic
Octamethylcyclotetrasiloxane

- **Hazard statements**

H361 Suspected of damaging fertility or the unborn child.

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

- **Precautionary statements**

P260 Do not breathe mist/vapors/spray.

P273 Avoid release to the environment.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P405 Store locked up.

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

- **Additional information:**

Please refer to additional labeling elements in Section 15 of this Safety Data Sheet, if applicable.

3 Composition/Information on ingredients

- **Chemical characterization: Mixtures**

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

- **Dangerous components:**

CAS: 68909-20-6	Silicon dioxide, highly dispersed, amorphous, hydrophobic	10 - 30% w/w *
CAS: 1185-55-3 RTECS: VV 4650000	Trimethoxy(methyl)silane	1 - 5% w/w *
CAS: 67-56-1 RTECS: PC 1400000	Methanol	≥ 1 - < 3% w/w *
CAS: 540-97-6	Dodecamethylcyclohexasiloxane	0 - 1% w/w *
CAS: 556-67-2 RTECS: GZ 4397000	Octamethylcyclotetrasiloxane	≥ 0.1 - ≤ 1% w/w *
CAS: 541-02-6	Decamethylcyclopentasiloxane	0 - 1% w/w *

* Actual concentration ranges are withheld as a trade secret.

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 complaints.

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- **After skin contact:**
Immediately 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 a doctor.
Remove contact lenses if possible.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting.
If symptoms persist 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 full jet
- **Special hazards arising from the substance or mixture**
Inhalation of combustion gases may cause serious health hazards.
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide
- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
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 respiratory protective device 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, sawdust).
Dispose of the collected material 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 disposal information.

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7 Handling and storage

- **Precautions for safe handling**
Do not eat, drink, smoke or sniff 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, smoke or sniff while working.
Avoid direct contact with eyes, skin and clothing.
Wash hands before breaks and at the end of work.
Wash contaminated clothing before re-use.
Keep away from foodstuffs, beverages and feed.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
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:**
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
TLV: Threshold Limit Value

67-56-1 Methanol

EL	STEL: 250 ppm TWA: 200 ppm Skin
EV	STEL: 325 mg/m ³ , 250 ppm TWA: 260 mg/m ³ , 200 ppm Skin

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.
Avoid direct contact with eyes, skin and clothing.
Immediately remove all soiled and contaminated clothing.
Wash contaminated clothing before re-use.
Keep away from foodstuffs, beverages and feed.
- **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

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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.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Physical state**

Liquid

- **Color:**

Whitish

- **Odor:**

undistinguishable

- **Odor threshold:**

Not determined.

- **Melting point/Melting range:**

Undetermined.

- **Boiling point/Boiling range:**

> 65 °C

- **Flammability:**

Not applicable.

- **Explosion limits:**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

- **Flash point:**

> 101 °C

- **Auto igniting:**

Product is not selfigniting.

- **Decomposition temperature:**

Not determined.

- **SADT**

- **pH-value:**

Not determined.

- **Viscosity:**

Not determined.

- **Kinematic:**

Not determined.

- **Dynamic:**

Not determined.

- **Solubility in / Miscibility with**

- **Water:**

Not miscible or difficult to mix.

- **Segregation coefficient (n-octanol/water):**

Not determined.

- **Vapor pressure:**

Not determined.

- **Density:**

Not determined.

- **Relative density**

Not determined.

- **Vapor density**

Not determined.

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- | | |
|--|---|
| · Particle characteristics | No further details. |
| · Other information | |
| · Appearance: | |
| · Form: | Fluid |
| · Important information on protection of health and environment, and on safety. | |
| · Ignition temperature: | Product is not selfigniting. |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Change in condition | |
| · Evaporation rate | Not determined. |

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:**
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 Estimate)

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)

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541-02-6 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 internally approved calculation methods for preparations:

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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)
EC50 (static)	22,000 mg/l/96h (Raphidocelis subcapitata) (OECD 201)
	18,260 mg/l/96h (Daphnia magna)
	15,400 mg/l/96h (Lepomis macrochirus)

556-67-2 Octamethylcyclotetrasiloxane

EC50	> 0.022 mg/l/96h (Oncorhynchus mykiss) (OTS 797.1400)
LC50 (dynamic)	> 0.022 mg/l/96h (Oncorhynchus mykiss) (EPA OTS 797.1400)

- **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	Decamethylcyclopentasiloxane

- **vPvB:**

540-97-6	Dodecamethylcyclohexasiloxane
556-67-2	Octamethylcyclotetrasiloxane
541-02-6	Decamethylcyclopentasiloxane

- **Other adverse effects** No further relevant information available.

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15 Regulatory information

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

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**

67-56-1 | Methanol

- **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

- **Canadian substance listings:**

- **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

- **Canadian Non-Domestic Substances List (NDSL)**

None of the ingredients is listed.

- **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

- **Canadian Ingredient Disclosure list (limit 1%)**

1185-55-3 | Trimethoxy(methyl)silane

67-56-1 | Methanol

- **Per- and polyfluoroalkyl substances (PFAS)**


None of the ingredients is listed.

- **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:**

 **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.

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- **Kit-Components:**

- **Date of preparation** 08/31/2025

- **Abbreviations and acronyms:**

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative

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

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