

# Safety Data Sheet

according to Regulation (EC) No 1907/2006



**SG250**

Revision date: 28.07.2022

Page 1 of 9

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

SG250

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

#### Use of the substance/mixture

Plating agent

#### Uses advised against

No information available.

### 1.3. Details of the supplier of the safety data sheet

Company name: Hottinger Brüel & Kjaer  
Street: Im Tiefen See 45  
Place: D-64293 Darmstadt  
Telephone: +49 (0)6151 803-0  
Internet: www.hbm.com  
Responsible Department: support@hbm.com

### 1.4. Emergency telephone number:

+49-30-18412-0

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

### 2.2. Label elements

#### Regulation (EC) No 1272/2008

##### Hazard statements

H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P273 Avoid release to the environment.

##### Special labelling of certain mixtures

Restricted to professional users.

##### Labelling of packages where the contents do not exceed 125 ml

##### Hazard statements

H412

### 2.3. Other hazards

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

# Safety Data Sheet

according to Regulation (EC) No 1907/2006



SG250

Revision date: 28.07.2022

Page 2 of 9

## Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
1185-55-3	Trimethoxymethylsilan			2,1-3,5 %
	214-685-0			
556-67-2	octamethylcyclotetrasiloxane			0,05-0,21 %
	209-136-7	014-018-00-1		
	Repr. 2, Aquatic Chronic 1; H361f H410			
67-56-1	methanol			< 1 %
	200-659-6	603-001-00-X		
	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370			

Full text of H and EUH statements: see section 16.

## Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
556-67-2	209-136-7	octamethylcyclotetrasiloxane	0,05-0,21 %
		M chron.; H410: M=10	
67-56-1	200-659-6	methanol	< 1 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: ATE = 100 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >= 3 - < 10	

## Further Information

This mixture does not contain any substances presenting a health or environmental hazard within the means of Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious but breathing normally, place in recovery position and seek medical advice.

#### After inhalation

Remove casualty to fresh air and keep warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

#### After contact with skin

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

Do not wash with: Solvents/Thinner.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical advice immediately.

#### After ingestion

If swallowed, rinse mouth with water (only if the person is conscious).

Call a physician immediately.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006



**SG250**

Revision date: 28.07.2022

Page 3 of 9

Put victim at rest, cover with a blanket and keep warm.  
Do NOT induce vomiting.

#### **4.2. Most important symptoms and effects, both acute and delayed**

No information available.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water mist  
Co-ordinate fire-fighting measures to the fire surroundings.

##### **Unsuitable extinguishing media**

Full water jet

#### **5.2. Special hazards arising from the substance or mixture**

Burning produces heavy smoke.  
Hazardous decomposition products: carbon black. Danger of serious damage to health by prolonged exposure.  
Use appropriate respiratory protection.

#### **5.3. Advice for firefighters**

Use water spray jet to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **Additional information**

No information available.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **General advice**

Avoid breathing dust/fume/gas/mist/vapours/spray.  
Safe handling: see section 7  
Personal protection equipment: see section 8

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

#### **6.3. Methods and material for containment and cleaning up**

##### **Other information**

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).  
Collect in closed and suitable containers for disposal. Disposal: see section 13  
Clean with detergents. Avoid solvent cleaners.

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapours/spray. When using do not eat, drink or smoke. Personal protection equipment: see section 8

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

#### **7.2. Conditions for safe storage, including any incompatibilities**

# Safety Data Sheet

according to Regulation (EC) No 1907/2006



## SG250

Revision date: 28.07.2022

Page 4 of 9

### Requirements for storage rooms and vessels

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).  
No special measures are necessary.

### Hints on joint storage

No special measures are necessary.

### Further information on storage conditions

No special measures are necessary.

### 7.3. Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
67-56-1	Methanol	200	260		TWA (8 h)	

#### Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
67-56-1	Methanol	Methanol	15 mg/L	Urine	End of shift

#### Additional advice on limit values

No information available.

### 8.2. Exposure controls



#### Appropriate engineering controls

No special measures are necessary.

#### Protective and hygiene measures

Wash hands before breaks and after work.  
When using do not eat or drink.  
Draw up and observe skin protection programme.  
Use protective skin cream before handling the product.  
Wear suitable protective clothing.

#### Eye/face protection

No special measures are necessary.

#### Hand protection

Use protective skin cream before handling the product.

#### Skin protection

No special measures are necessary.

#### Respiratory protection

No special measures are necessary.

#### Environmental exposure controls

No special measures are necessary.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006



SG250

Revision date: 28.07.2022

Page 5 of 9

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state: Liquid  
Colour: whitish  
Odour: neutral

#### Test method

pH-Value: not determined

#### Changes in the physical state

Melting point/freezing point: not determined  
Boiling point or initial boiling point and boiling range: not determined  
Sublimation point: not determined  
Softening point: not determined  
Pour point: not determined  
not determined:

Flash point: 100 °C

Sustaining combustion: No data available EN ISO 9038

#### Flammability

Solid/liquid: not determined  
Gas: not determined

#### Explosive properties

not relevant

Lower explosion limits: not relevant

Upper explosion limits: not relevant

Auto-ignition temperature: not relevant

#### Self-ignition temperature

Solid: not relevant  
Gas: not relevant

Decomposition temperature: not relevant

#### Oxidizing properties

not relevant

Vapour pressure: not determined  
(at 20 °C)

Vapour pressure: not determined  
(at 50 °C)

Density (at 20 °C): 1,05 g/cm<sup>3</sup> DIN 53217

Bulk density: not determined

Water solubility: not determined

#### Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Viscosity / dynamic: 300 mPa·s  
(at 25 °C)

Viscosity / kinematic: not determined

Flow time: not determined  
(at 23 °C)

# Safety Data Sheet

according to Regulation (EC) No 1907/2006



## SG250

Revision date: 28.07.2022

Page 6 of 9

Relative vapour density: not determined  
Evaporation rate: not determined  
Solvent separation test: not relevant  
Solvent content: not determined

### 9.2. Other information

Solid content: not determined  
No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidizing agent, Strong acid, Strong alkali

### 10.4. Conditions to avoid

In case of warming: Formation of: Hazardous decomposition products

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide

### Further information

No information available.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### ATEmix calculated

ATE (oral) 62500,0 mg/kg; ATE (dermal) 187500,0 mg/kg; ATE (inhalation vapour) 1875,00 mg/l; ATE (inhalation dust/mist) 312,500 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
67-56-1	methanol				
	oral	ATE 100 mg/kg			
	dermal	ATE 300 mg/kg			
	inhalation vapour	ATE 3 mg/l			
	inhalation dust/mist	ATE 0,5 mg/l			

#### Irritation and corrosivity

Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

# Safety Data Sheet

according to Regulation (EC) No 1907/2006



**SG250**

Revision date: 28.07.2022

Page 7 of 9

Based on available data, the classification criteria are not met.

#### **STOT-single exposure**

Based on available data, the classification criteria are not met.

#### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **Practical experience**

After eye contact:

Irritating to eyes. (reversible.)

#### **Further information**

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

Reference to other sections: 2, 3

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

No information available.

### **12.2. Persistence and degradability**

No information available.

### **12.3. Bioaccumulative potential**

No information available.

### **12.4. Mobility in soil**

No information available.

### **12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

No information available.

### **12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### **12.7. Other adverse effects**

No information available.

#### **Further information**

There are no data available on the mixture itself.

Do not allow to enter into surface water or drains.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Disposal recommendations**

Dispose of waste according to applicable legislation.

#### **Contaminated packaging**

Dispose of waste according to applicable legislation.

## **SECTION 14: Transport information**

### **Land transport (ADR/RID)**

#### **14.1. UN number:**

No dangerous good in sense of this transport regulation.

#### **14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

#### **14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006



## SG250

Revision date: 28.07.2022

Page 8 of 9

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

### Inland waterways transport (ADN)

**14.1. UN number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

### Marine transport (IMDG)

**14.1. UN number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

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

#### EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):  
octamethylcyclotetrasiloxane

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

2010/75/EU (VOC): 0,16 % (1,68 g/l)

2004/42/EC (VOC): 3,87 % (40,635 g/l)

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

#### National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

#### Additional information

Observe in addition any national regulations!

## SECTION 16: Other information



# Safety Data Sheet

according to Regulation (EC) No 1907/2006



**SG250**

Revision date: 28.07.2022

Page 9 of 9

## Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

### Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H361f	Suspected of damaging fertility.
H370	Causes damage to organs.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*