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

1.3. Details of the supplier of the safety data sheet
Company name: Hottinger Baldwin Messtechnik GmbH
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(0)6131 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Regulation (EC) No. 1272/2008
This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.
The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements
Regulation (EC) No. 1272/2008
Precautionary statements
P233 Keep container tightly closed.
P202 Do not handle until all safety precautions have been read and understood.
P102 Keep out of reach of children.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.

Special labelling of certain mixtures
EUH210 Safety data sheet available on request.

2.3. Other hazards
No hazardous reaction when handled and stored according to provisions.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1185-55-3</td>
<td>Trimethoxymethylsilan</td>
<td>&gt;=1 - &gt;10 %</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>214-685-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Flam. Liq. 2; H225</td>
</tr>
<tr>
<td>556-67-2</td>
<td>octamethylcyclotetrasiloxane</td>
<td>&gt;= 0,1-&lt;0,25 %</td>
<td></td>
<td></td>
<td></td>
<td>Repr. 2, Aquatic Chronic 4; H361f H413</td>
</tr>
</tbody>
</table>

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
alcohol resistant foam, Carbon dioxide (CO2), 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. 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.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

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

Requirements for storage rooms and vessels
Store in accordance with: Betriebssicherheitsverordnung (BetriebsSichV).

Hints on joint storage
Do not store together with: Oxidizing agent, Strong acid, Strong alkali

Further information on storage conditions
Keep container tightly closed in a cool, well-ventilated place. When using do not smoke.
Always close containers tightly after the removal of product.

7.3. Specific end use(s)

Plating agent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Additional advice on limit values
To date, no national critical limit values exist.

8.2. Exposure controls

Appropriate engineering controls
Provide adequate ventilation.

Protective and hygiene measures
Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

Eye/face protection
Avoid contact with eyes.

Hand protection
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Replace when worn.
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. See information supplied by the manufacturer.
Use protective skin cream before handling the product.

Skin protection
Wear suitable protective clothing.

Respiratory protection
not applicable

Environmental exposure controls
Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Paste</td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>whitish</td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td>neutral</td>
<td></td>
</tr>
<tr>
<td>pH-Value</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Changes in the physical state</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Sublimation point</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Softening point</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Pour point</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 100 °C DIN 53213</td>
<td></td>
</tr>
<tr>
<td>Sustaining combustion</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solid</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Gas</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>not relevant</td>
<td></td>
</tr>
</tbody>
</table>
Lower explosion limits: not relevant
Upper explosion limits: not relevant
Ignition temperature: not relevant

**Auto-ignition temperature**
- Solid: not relevant
- Gas: not relevant

Deamination temperature: not relevant

**Oxidizing properties**
- not relevant

Vapour pressure:
- (at 20 °C): not determined
- (at 50 °C): not determined

Density (at 20 °C): not determined
Bulk density: not determined
Water solubility: not determined

**Solubility in other solvents**
- not determined

Partition coefficient: not determined
Viscosity / dynamic: not determined
Viscosity / kinematic: not determined
Flow time:
- (at 23 °C): not determined

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.

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**SECTION 10: Stability and reactivity**

**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

**10.6. Hazardous decomposition products**
- Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO2), Carbon monoxide

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**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**
- Based on available data, the classification criteria are not met.
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
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
Observations relevant to classification
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.

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

Advice on disposal
Do not allow to enter into surface water or drains.
Recycle according to official regulations.

Contaminated packaging
Completely emptied packages can be recycled.
Recycle according to official regulations.

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.

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. Transport in bulk according to Annex II of Marpol and the IBC Code
No dangerous good in sense of this transport regulation.

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):
Enter 70: octamethylcyclotetrasiloxane

2004/42/EC (VOC): 0,2 %
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 juvenils 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. Observe employment restrictions for women of child-bearing age.

Water contaminating class (D): 1 - slightly water contaminating

Additional information
Observe in addition any national regulations!

15.2. Chemical safety assessment
For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Relevant H and EUH statements (number and full text)
H225 Highly flammable liquid and vapour.
H361f Suspected of damaging fertility.
H413 May cause long lasting harmful effects to aquatic life.
EUH210 Safety data sheet available on request.
Further Information

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

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