1. Identification

Product identifier

SG250

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Plating agent

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
Emergency phone number: +49(0)6131 19240

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

This mixture is not classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

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

Label elements

29 CFR Part 1910.1200

Precautionary statements

Contaminated work clothing must not be allowed out of the workplace.
Use only outdoors or in a well-ventilated area.
Do not eat, drink or smoke when using this product.
Keep container tightly closed.
Do not handle until all safety precautions have been read and understood.
Keep out of reach of children.

Hazard not otherwise classified

No hazardous reaction when handled and stored according to provisions.

3. Composition/information on ingredients

Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>556-67-2</td>
<td>octamethylcyclotetrasiloxane</td>
<td>≥ 0,1&lt;&lt;0,25%</td>
</tr>
</tbody>
</table>

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.

4. First-aid measures

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.

5. Fire-fighting measures

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

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

Special protective equipment and precautions for fire-fighters
Use water spray/stream to protect personnel and to cool endangered containers.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Avoid breathing dust/fume/gas/mist/vapors/spray.
Safe handling: see section 7
Personal protection equipment (PPE): see section 8

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.

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.
SG250

Reference to other sections
Safe handling: see section 7
Personal protection equipment (PPE): see section 8
Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling
Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do not eat, drink or smoke. Personal protection equipment (PPE): 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.

Conditions for safe storage, including any incompatibilities

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

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.

8. Exposure controls/personal protection

Control parameters

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

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.

9. Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Paste</td>
</tr>
<tr>
<td>Color</td>
<td>whitish</td>
</tr>
<tr>
<td>Odor</td>
<td>neutral</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test method</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>pH-Value</td>
<td>not determined</td>
</tr>
</tbody>
</table>

Changes in the physical state

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/freezing point</td>
<td>not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>not determined</td>
</tr>
<tr>
<td>Sublimation point</td>
<td>not determined</td>
</tr>
<tr>
<td>Softening point</td>
<td>not determined</td>
</tr>
<tr>
<td>Pour point</td>
<td>not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
</tr>
<tr>
<td>Sustaining combustion</td>
</tr>
</tbody>
</table>

Flammability

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>not determined</td>
</tr>
<tr>
<td>Gas</td>
<td>not determined</td>
</tr>
</tbody>
</table>

Explosive properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower explosion limits</td>
<td>not relevant</td>
</tr>
<tr>
<td>Upper explosion limits</td>
<td>not relevant</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>not relevant</td>
</tr>
</tbody>
</table>

Auto-ignition temperature

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>not relevant</td>
</tr>
<tr>
<td>Gas</td>
<td>not relevant</td>
</tr>
</tbody>
</table>

Decomposition temperature:

Oxidizing properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor pressure</td>
<td>not determined</td>
</tr>
<tr>
<td>(at 20 °C)</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>not determined</td>
</tr>
<tr>
<td>(at 50 °C)</td>
<td></td>
</tr>
<tr>
<td>Density (at 20 °C)</td>
<td>not determined DIN 53217</td>
</tr>
<tr>
<td>Bulk density</td>
<td>not determined</td>
</tr>
<tr>
<td>Water solubility</td>
<td>not determined</td>
</tr>
</tbody>
</table>

Solubility in other solvents

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition coefficient</td>
<td>not determined</td>
</tr>
<tr>
<td>Viscosity / dynamic</td>
<td>not determined</td>
</tr>
<tr>
<td>Viscosity / kinematic</td>
<td>not determined</td>
</tr>
</tbody>
</table>
Safety Data Sheet

according to 29 CFR 1910.1200(g)

SG250

Flow time: not determined
(at 23 °C)

Vapor density: not determined

Evaporation rate: not determined

Solvent separation test: not relevant

Solvent content: not determined

Other information
Solid content: not determined

No information available.

10. Stability and reactivity

Chemical stability
The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions
Exothermic reaction with: Oxidizing agent, Strong acid, Strong alkali

Conditions to avoid
In case of warming: Formation of: Hazardous decomposition products

Hazardous decomposition products
Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO2), Carbon monoxide

11. Toxicological information

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.

Sensitizing 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.

Specific target organ toxicity (STOT) - single exposure
Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure
Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.
Carcinogenicity (IARC): No ingredient of this mixture is listed.
Carcinogenicity (NTP): No ingredient of this mixture is listed.

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
12. Ecological information

Ecotoxicity
No information available.

Further information
There are no data available on the mixture itself.
Do not allow to enter into surface water or drains.

13. Disposal considerations

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.

14. Transport information

US DOT 49 CFR 172.101

Proper shipping name: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

UN number: No dangerous good in sense of this transport regulation.
UN proper shipping name: No dangerous good in sense of this transport regulation.
Transport hazard class(es): No dangerous good in sense of this transport regulation.
Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

UN number: No dangerous good in sense of this transport regulation.
UN proper shipping name: No dangerous good in sense of this transport regulation.
Transport hazard class(es): No dangerous good in sense of this transport regulation.
Packing group: No dangerous good in sense of this transport regulation.

Environmental hazards
ENVIRONMENTALLY HAZARDOUS: no

Special precautions for user
No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No dangerous good in sense of this transport regulation.

15. Regulatory information

U.S. Regulations

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)
This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Additional information
Observe in addition any national regulations!
16. Other information

Revision date: 11.10.2018
Revision No: 1.0

Other data
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.)