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

1.1. Product identifier
Trade name or designation: Hylomar Tilebond 402 Part B Resin
Registration number: -
Synonyms: None.
SDS number: 27
Issue date: 29-November-2012
Version number: 02
Revision date: 22-January-2016
Supersedes date: 29-November-2012

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Epoxy adhesive.
Uses advised against: None known.

1.3. Details of the supplier of the safety data sheet
Manufacturer: Hylomar Ltd.
Address: Hylo House, Cale Lane, New Springs, Wigan, Greater Manchester, UK, WN2 1JT
Telephone number: +44(0)1942 617000
E-mail address: info@hylomar.co.uk
Contact person: Technical Department

1.4. Emergency telephone number
+1-760-476-3961 (US)
Access code: 333544

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards
- Skin corrosion/irritation: Category 2 - H315 - Causes skin irritation.
- Serious eye damage/eye irritation: Category 2 - H319 - Causes serious eye irritation.
- Skin sensitisation: Category 1 - H317 - May cause an allergic skin reaction.

Environmental hazards
- Hazardous to the aquatic environment, long-term aquatic hazard: Category 2 - H411 - Toxic to aquatic life with long lasting effects.

Hazard summary
Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Dangerous for the environment if discharged into watercourses.

2.2. Label elements
Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Bisphenol A/F-epoxy resins, mw <700

Hazard pictograms

Signal word: Danger

Hazard statements
H315 - Causes skin irritation.
Precautionary statements

Prevention

P261 Avoid breathing vapours.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P302 + P352 IF ON SKIN: Wash with plenty of water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

Store away from incompatible materials.

Disposal

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

Supplemental label information

EUH205 - Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>%</th>
<th>CAS-No. / EC No.</th>
<th>REACH Registration No.</th>
<th>INDEX No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol A/F-epoxy resins, mw &lt;700</td>
<td>40 - &lt; 50</td>
<td>40216-08-8</td>
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<td>-</td>
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</tr>
<tr>
<td>Classification: Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, Aquatic Chronic 2;H411</td>
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<td></td>
<td></td>
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<tr>
<td>Talc</td>
<td>10 - &lt; 20</td>
<td>14807-96-6</td>
<td>238-877-9</td>
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<tr>
<td>Classification: STOT RE 1;H372</td>
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<tr>
<td>(3-Glycidoxypropyl)trimethoxysilane</td>
<td>1 - &lt; 3</td>
<td>2530-83-8</td>
<td>219-784-2</td>
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<tr>
<td>Classification: Eye Dam. 1;H318</td>
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<tr>
<td>Dimethyl silicone polymer with silica</td>
<td>1 - &lt; 3</td>
<td>67762-90-7</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Classification: Eye Irrit. 2;H319</td>
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</tbody>
</table>

Composition comments

The full text for all H-statements is displayed in section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms persist.

Skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. In case of allergic reaction or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact

Immediately flush with plenty of water for at least 15 minutes occasionally lifting upper and lower eyelids. If easy to do, remove contact lenses. Get medical attention.

Ingestion

Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention if any discomfort continues. Symptoms may be delayed.

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


4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Symptoms may be delayed.
SECTION 5: Firefighting measures

General fire hazards
No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture
During fire, traces of gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters
Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures
Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Ensure adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapour. Wear appropriate personal protective equipment (See Section 8).

For emergency responders
Keep unnecessary personnel away.

6.2. Environmental precautions
Environmental manager should be informed of all releases, as necessary. Reporting of releases to appropriate regulatory agencies may be required. Prevent entry into waterways, sewer, basements or confined areas.

6.3. Methods and material for containment and cleaning up
Scrape up spillage or absorb with absorbing material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Flush area with water. Prevent runoff from entering drains, sewers, or streams.

6.4. Reference to other sections
For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Persons susceptible for allergic reactions should not handle this product. Wear appropriate personal protective equipment (See Section 8). Use only with adequate ventilation. Wash thoroughly after handling. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities
Keep container tightly closed and in a well-ventilated place. Store in a cool, dry place. Store away from incompatible materials (See Section 10).

7.3. Specific end use(s)
Epoxy adhesive.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Austria. MAK List

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>MAK</td>
<td>2 mg/m3</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>MAK</td>
<td>5 mg/m3</td>
<td>Respirable dust.</td>
</tr>
</tbody>
</table>

Belgium. Exposure Limit Values.

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulphate (CAS 7727-43-7)</td>
<td>TWA</td>
<td>10 mg/m3</td>
</tr>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>2 mg/m3</td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>10 mg/m3</td>
</tr>
</tbody>
</table>

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulphate (CAS 7727-43-7)</td>
<td>TWA</td>
<td>10 mg/m3</td>
</tr>
</tbody>
</table>
### Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>1 fibers/cm³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 mg/m³</td>
<td>Respirable fraction.</td>
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<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

### Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulphate (CAS 7727-43-7)</td>
<td>MAC</td>
<td>4 mg/m³</td>
<td>Respirable dust.</td>
</tr>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>MAC</td>
<td>10 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>STEL</td>
<td>1 mg/m³</td>
<td>Respirable dust.</td>
</tr>
<tr>
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<td></td>
<td>4 mg/m³</td>
<td>Respirable dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Total dust.</td>
</tr>
</tbody>
</table>

### Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
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<tbody>
<tr>
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<td>10 mg/m³</td>
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### Czech Republic. OELs. Government Decree 361

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Respirable dust.</td>
</tr>
</tbody>
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### Denmark. Exposure Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
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</thead>
<tbody>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TLV</td>
<td>6 mg/m³</td>
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</tr>
</tbody>
</table>

### Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
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<tbody>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>5 mg/m³</td>
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### Finland. Workplace Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulphate (CAS 7727-43-7)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Dust.</td>
</tr>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>STEL</td>
<td>2 ppm</td>
<td>Inhalable dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 ppm</td>
<td>Respirable.</td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Dust.</td>
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</tbody>
</table>

### France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
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</thead>
<tbody>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>VME</td>
<td>10 mg/m³</td>
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</table>

### Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulphate (CAS 7727-43-7)</td>
<td>TWA</td>
<td>4 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

### Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulphate (CAS 7727-43-7)</td>
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<tr>
<td>Components</td>
<td>Type</td>
<td>Value</td>
<td>Form</td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>--------</td>
<td>----------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>AGW</td>
<td>1,25 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
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<td>10 mg/m³</td>
<td>Inhalable fraction.</td>
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<tr>
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<td>1,25 mg/m³</td>
<td>Respirable fraction.</td>
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<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
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<td>10 mg/m³</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>1,25 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

**Greece. OELs (Decree No. 90/1999, as amended)**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
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</thead>
<tbody>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Respirable.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Inhalable.</td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Respirable.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Inhalable.</td>
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</table>

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
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</thead>
<tbody>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Respirable.</td>
</tr>
<tr>
<td></td>
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<td>10 mg/m³</td>
<td>Inhalable.</td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>4 mg/m³</td>
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</tr>
<tr>
<td></td>
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<td>10 mg/m³</td>
<td>Inhalable.</td>
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**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
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<tbody>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
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<td>6 mg/m³</td>
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**Ireland. Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulphate (CAS 7727-43-7)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Respirable dust.</td>
</tr>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Total inhalable dust.</td>
</tr>
<tr>
<td>0,8 mg/m³</td>
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</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
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<td>4 mg/m³</td>
<td>Total inhalable dust.</td>
</tr>
<tr>
<td>10 mg/m³</td>
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</table>

**Italy. OELs**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
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<tbody>
<tr>
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</tr>
<tr>
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<tr>
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</table>

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>10 mg/m³</td>
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**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
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</thead>
<tbody>
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<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>1 mg/m³</td>
<td></td>
<td>Respirable fraction.</td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>5 mg/m³</td>
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<tr>
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**Netherlands. OELs (binding)**

<table>
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<th>Components</th>
<th>Type</th>
<th>Value</th>
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<tbody>
<tr>
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<td>TWA</td>
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**Norway. Administrative Norms for Contaminants in the Workplace**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
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<td>TLV</td>
<td>6 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 mg/m³</td>
<td>Respirable dust.</td>
</tr>
</tbody>
</table>

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

<table>
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<tr>
<th>Components</th>
<th>Type</th>
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<th>Form</th>
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</thead>
<tbody>
<tr>
<td>Talc (CAS 14807-96-6)</td>
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<td></td>
<td>10 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,25 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>AGW</td>
<td>10 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,25 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

**Hylomar Tilebond 402 Part B Resin SDS EU**

910924  Version #: 02  Revision date: 22-January-2016  Issue date: 29-November-2012
### Norway. Administrative Norms for Contaminants in the Workplace

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TLV</td>
<td>5 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

### Poland. MACs. Regulation regarding maximum permissible concentrations and intensities of harmful factors in the work environment, Annex 1

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>4 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

### Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulphate (CAS 7727-43-7)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

### Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>STEL</td>
<td>15 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>10 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

### Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulphate (CAS 7727-43-7)</td>
<td>TWA</td>
<td>4 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>1,5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Total</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

### Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

### Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

### Spain. Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulphate (CAS 7727-43-7)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

### Sweden. Occupational Exposure Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Respirable dust.</td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Total dust.</td>
</tr>
</tbody>
</table>
**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Respirable dust.</td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>3 mg/m³</td>
<td>Respirable dust.</td>
</tr>
</tbody>
</table>

**UK. EH40 Workplace Exposure Limits (WELs)**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulphate (CAS 7727-43-7)</td>
<td>TWA</td>
<td>4 mg/m³</td>
<td>Respirable dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Inhalable dust.</td>
</tr>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Respirable dust.</td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>4 mg/m³</td>
<td>Respirable.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10 mg/m³ Inhalable</td>
</tr>
</tbody>
</table>

No biological exposure limits noted for the ingredient(s).

Follow standard monitoring procedures.

Not available.

Ensure adequate ventilation, especially in confined areas. Observe occupational exposure limits and minimise the risk of exposure. Mix and prepare in a place with efficient exhaust ventilation. Provide easy access to water supply and eye wash facilities.

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Wear safety glasses with side shields (or goggles).

Wear protective gloves. Nitrile gloves are recommended. Suitable gloves can be recommended by the glove supplier.

Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact chemical protective clothing manufacturer for specific information.

In case of inadequate ventilation, use respiratory protection. Use respiratory equipment with combination filter, type A2/P2.

Wear appropriate thermal protective clothing, when necessary.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Private clothes and working clothes should be kept separately.

Environmental manager must be informed of all major spillages.

**SECTION 9: Physical and chemical properties**

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

**Appearance**
- **Physical state**: Paste.
- **Form**: Paste.
- **Colour**: Light grey
- **Odour**: Low Resinous odour.
- **Odour threshold**: Not available.
- **pH**: Not available.
- **Melting point/freezing point**: Not available.
- **Initial boiling point and boiling range**: Not available.
- **Flash point**: Not available.
- **Evaporation rate**: Not available.
- **Flammability (solid, gas)**: Non flammable.
Upper/lower flammability or explosive limits

Flammability limit - lower
\((%)\)
Not available.

Flammability limit - upper
\((%)\)
Not available.

Vapour pressure
Not available.

Vapour density
Not available.

Relative density
Not available.

Solubility(ies)
Insoluble in water.

Partition coefficient
\((n\text{-octanol/water})\)
No data available.

Auto-ignition temperature
Not available.

Decomposition temperature
Not available.

Viscosity
Not available.

Explosive properties
Not explosive.

Oxidising properties
Not oxidising.

9.2. Other information
No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Material is stable under normal conditions.

10.3. Possibility of hazardous reactions
Hazardous polymerisation does not occur.

10.4. Conditions to avoid
Heat, sparks, flames. Contact with incompatible materials.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Carbon oxides. Silicon oxides. Low molecular weight organic compounds.

SECTION 11: Toxicological information

General information
Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation
May cause irritation to the respiratory system.

Skin contact
Causes skin irritation. May cause an allergic skin reaction.

Eye contact
Causes serious eye irritation.

Ingestion
May be harmful if swallowed.

Symptoms

11.1. Information on toxicological effects

Acute toxicity
May cause discomfort if swallowed.

Components
Species
Test results

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc (CAS 14807-96-6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt; 5000 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/eye irritation
Causes serious eye irritation.

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

Skin sensitisation
May cause sensitisation by skin contact.

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

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

IARC Monographs. Overall Evaluation of Carcinogenicity
Talc (CAS 14807-96-6) 3 Not classifiable as to its carcinogenicity to humans.

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

Specific target organ toxicity - single exposure
Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure
Talc may have effects on the lungs, resulting in talc pneumoconiosis. However: Not relevant, due to the form of the product.

Aspiration hazard
Not relevant, due to the form of the product.

Mixture versus substance information
None known.

Other information
None known.

SECTION 12: Ecological information
12.1. Toxicity
Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential
No data available.

12.4. Mobility in soil
The product is insoluble in water and will sediment in water systems.

12.5. Results of PBT and vPvB assessment
Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Dispose of waste and residues in accordance with local authority requirements.

Residual waste
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Contaminated packaging

EU waste code
08 04 09*
The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information
Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information
ADR
14.1. UN number
UN3077

14.2. UN proper shipping name
Environmentally hazardous substance, solid, n.o.s. (Bisphenol A/F-epoxy resins, mw <700)

14.3. Transport hazard class(es)

Class
9
Subsidiary risk
-
Label(s)
9
Hazard No. (ADR)
90
Tunnel restriction code
E

14.4. Packing group
III

14.5. Environmental hazards
Yes.

14.6. Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

RID
14.1. UN number
UN3077

14.2. UN proper shipping name
Environmentally hazardous substance, solid, n.o.s. (Bisphenol A/F-epoxy resins, mw <700)

14.3. Transport hazard class(es)

Class
9
Subsidiary risk
-
Label(s)
9

14.4. Packing group
III

14.5. Environmental hazards
Yes.

14.6. Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

ADN
14.1. UN number
UN3077

14.2. UN proper shipping name
Environmentally hazardous substance, solid, n.o.s. (Bisphenol A/F-epoxy resins, mw <700)
14.3. Transport hazard class(es)
   Class 9
   Subsidiary risk -
   Label(s) 9
14.4. Packing group III
14.5. Environmental hazards Yes.
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA
14.1. UN number UN3077
14.2. UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (Bisphenol A/F-epoxy resins, mw <700)
14.3. Transport hazard class(es)
   Class 9
   Subsidiary risk -
14.4. Packing group III
14.5. Environmental hazards Yes.
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG
14.1. UN number UN3077
14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bisphenol A/F-epoxy resins, mw <700)
14.3. Transport hazard class(es)
   Class 9
   Subsidiary risk -
14.4. Packing group III
14.5. Environmental hazards Marine pollutant Yes.
   EmS F-A, S-F
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

General information
The transportation information provided represents the regulatory transport classification of the product without consideration to packaging, quantity, or modal restrictions and exceptions. It is the user's responsibility to determine the appropriate packaging and modal requirements and/or limitations for the product quantity being shipped.

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations
 Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended
   Not listed.
   Not listed.
 Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended
   Not listed.
 Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended
   Not listed.
 Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended
   Not listed.
 Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended
   Not listed.
   Not listed.
 Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA
   Not listed.

Authorisations
Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended
Not listed.

Restrictions on use
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Not listed.
Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended
Not listed.
Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended
Not listed.

Other EU regulations
Directive 2012/18/EU on major accident hazards involving dangerous substances
Not listed.
Directive 94/33/EC on the protection of young people at work
Not listed.

Other regulations
The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations
Follow national regulation for work with chemical agents. Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations
DNEL: Derived No-Effect Level.
PNEC: Predicted No-Effect Concentration.
PBT: Persistent, bioaccumulative and toxic.
vPvB: Very Persistent and very Bioaccumulative.

References
HSDB® - Hazardous Substances Data Bank
Registry of Toxic Effects of Chemical Substances (RTECS)
IUCLID Dataset (European Chemicals Bureau)

Information on evaluation method leading to the classification of mixture
The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H372 Causes damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Training information
Follow training instructions when handling this material.

Disclaimer
The information in the sheet was written based on the best knowledge and experience currently available. The information in this SDS was obtained from sources which we believe are reliable, but no warranty or representation as to its accuracy or completeness is hereby given. Users should consider the information herein only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal, the safety and health of employees and customers and the protection of the environment.