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

1.1. Product identifier
Trade name or designation of the mixture: Hylomar / Hylosil 100 Series: 101 Ivory, 101 Grey, 102 Black, 103 Translucent, 106 Ivory
Registration number: -
Synonyms: None.
SDS number: 18
Issue date: 17-December-2012
Version number: 05
Revision date: 23-August-2018
Supersedes date: 06-March-2015

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Automotive Amine curing RTV silicone sealant.
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
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
- Serious eye damage/eye irritation: Category 1

Hazard summary
Causes serious eye damage. Causes skin irritation. Occupational exposure to the substance or mixture may cause adverse health effects.

2.2. Label elements

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

Contains: N,N',N''-Tricyclohexyl-1-methylsilanetriamine

Signal word: Danger

Hazard statements
- H315: Causes skin irritation.
- H318: Causes serious eye damage.

Precautionary statements
Prevention
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P264: Wash thoroughly after handling.
**Response**

P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310  Immediately call a POISON CENTRE or doctor/physician.

P302 + P352  IF ON SKIN: Wash with plenty of water.

P332 + P313  If skin irritation occurs: Get medical advice/attention.

P362 + P364  Take off contaminated clothing and wash it before reuse.

**Storage**

Store away from incompatible materials.

**Disposal**

Dispose of waste and residues in accordance with local authority requirements.

**Supplemental label information**

None.

**2.3. Other hazards**

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

**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>Silicon dioxide, crystalline silica-free</td>
<td>5 - &lt; 10</td>
<td>7631-86-9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>231-545-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon black</td>
<td>0 - &lt; 7</td>
<td>1333-86-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>215-609-9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N,N',N&quot;-Tricyclohexyl-1-methylsilanetiamine</td>
<td>1 - &lt; 5</td>
<td>15901-40-3</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Classification:</td>
<td>-</td>
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<tr>
<td></td>
<td></td>
<td>240-040-8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zeolites</td>
<td>0 - &lt; 1</td>
<td>1318-02-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td>-</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>215-283-8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Composition comments**

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

**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**

Move into fresh air and keep at rest. If not breathing, give artificial respiration or give oxygen by trained personnel. Get medical attention if any discomfort continues.

**Skin contact**

Take off immediately all contaminated clothing. Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.

**Eye contact**

Immediately flush with plenty of water. Remove any contact lenses and open eyelids wide apart. Call an ambulance and continue flushing during transportation to hospital taking along these instructions.

**Ingestion**

Rinse mouth thoroughly. Drink a few glasses of water or milk. Get medical attention if any discomfort continues.

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

Skin irritation. May cause redness and pain. Extreme irritation of eyes and mucous membranes, including burning and tearing. In high concentrations, vapours may be irritating to the respiratory system.

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

Provide general supportive measures and treat symptomatically.

**SECTION 5: Firefighting measures**

**General fire hazards**

The product is not flammable.

**5.1. Extinguishing media**

**Suitable extinguishing media**

Water spray, foam, dry powder or carbon dioxide.

**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**

By heating and fire, toxic vapours/gases may be formed.
5.3. Advice for firefighters

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

Special fire fighting procedures
Cool containers exposed to heat with water spray and remove container, if no risk is involved.
Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Keep upwind. Ventilate closed spaces before entering. Avoid inhalation of vapours/spray and contact with skin and eyes. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders
Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up
Ventilate the area. In case of spills, beware of slippery floors and surfaces. Wipe up with absorbent material (e.g. cloth, fleece). Transfer to a container for disposal. Following product recovery, flush area with water.

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
Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area. Avoid inhalation of vapours/mist and contact with skin and eyes. Avoid prolong exposure. Wear protective clothing as described in Section 8 of this safety data sheet. Wash thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, spark, open flames and other sources of ignition. Store away from incompatible materials. Store locked up. Protect from moisture.

7.3. Specific end use(s)
Automotive Amine curing RTV silicone sealant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Occupational exposure limits

<table>
<thead>
<tr>
<th>UK. EH40 Workplace Exposure Limits (WELs)</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black (CAS 1333-86-4)</td>
<td>STEL</td>
<td>7 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Silicon dioxide, crystalline silica-free (CAS 7631-86-9)</td>
<td>TWA</td>
<td>3.5 mg/m3</td>
<td>Inhalable dust.</td>
</tr>
<tr>
<td>Zeolites (CAS 1318-02-1)</td>
<td>TWA</td>
<td>4 mg/m3</td>
<td>Respirable dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m3</td>
<td>Inhalable dust.</td>
</tr>
</tbody>
</table>

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

Recommended monitoring procedures
Follow standard monitoring procedures.

Derived no effect levels (DNELs)
Not available.

Predicted no effect concentrations (PNECs)
Not available.

8.2. Exposure controls
Appropriate engineering controls
Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours. The listed ingredients in section 3 and 8 are encapsulated within the silicone matrix, therefore no exposure to these materials is expected during normal use/handling of this product. The exposure limits listed are provided for safety reasons. Under the effect of humidity, water and protic agents a small quantity of Cyclohexylamine will be released.

Individual protection measures, such as personal protective equipment
General information
Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection
- Wear safety glasses with side shields (or goggles). Eye protection should meet standard EN 166.

Skin protection
- Hand protection
  - Wear suitable gloves tested to EN374. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.
- Other
  - Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection
- Not normally needed. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards
- Not applicable.

Hygiene measures
- 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.

Environmental exposure controls
- Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance
- Physical state: Liquid.
- Form: Paste.
- Colour:
  - 101 Ivory: Ivory
  - 101 Gray: Grey
  - 102 Black: Black
  - 103 Translucent: Colourless
  - 106 Ivory: Ivory

Odour
- Characteristic: Amine.

Odour threshold
- Not available.

pH
- Not available.

Melting point/freezing point
- Not applicable.

Initial boiling point and boiling range
- Not applicable.

Flash point
- 200.0 °C (392.0 °F)

Evaporation rate
- Not available.

Flammability (solid, gas)
- Not applicable.

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
- 1.15 (25 °C) (Water = 1)

Solubility(ies)
- Insoluble in water.

Partition coefficient (n-octanol/water)
- No data available.

Auto-ignition temperature
- 440 °C (824 °F)

Decomposition temperature
- Not available.

Viscosity
- Not applicable.

Explosive properties
- Not explosive.

Oxidising properties
- Not oxidising.

9.2. Other information
- VOC: 0 % (Hylomar Test Method 1.1A Determination of Volatile Matter)

SECTION 10: Stability and reactivity

10.1. Reactivity
- The product is stable and 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
No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid
Heat, flames and sparks.

10.5. Incompatible materials
None known.

10.6. Hazardous decomposition products
Under the effect of humidity, water and proteic agents a small quantity of Cyclohexylamine will be released. At a temperature of approx 150°C a small amount of formaldehyde can be released by oxidative degradation.

SECTION 11: Toxicological information

General information
Occupational exposure to the substance or mixture may cause adverse effects. After cross-linking and removal of volatile substances product is not hazardous to health or the environment.

Information on likely routes of exposure

Inhalation
In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

Skin contact
Causes skin irritation.

Eye contact
Causes serious eye damage.

Ingestion
Ingestion may cause irritation and malaise.

Symptoms
Skin irritation. May cause redness and pain. Extreme irritation of eyes and mucous membranes, including burning and tearing. In high concentrations, vapours may be irritating to the respiratory system.

11.1. Information on toxicological effects

Acute toxicity
Ingestion may cause irritation and malaise.

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/eye irritation
Causes serious eye damage.

Respiratory sensitisation
No data available.

Skin sensitisation
No data available.

Germ cell mutagenicity
No data available.

Carcinogenicity
Inhalation of carbon black dust may cause cancer, however due to the physical form of the product, inhalation of dust is not likely.

Reproductive toxicity
No data available.

Specific target organ toxicity - single exposure
No data available.

Specific target organ toxicity - repeated exposure
Due to the physical form of the product, the ingredients are not expected to present a hazard by inhalation.

Aspiration hazard
No data available.

Mixture versus substance information
No data available.

Other information
No other specific acute or chronic health impact noted.

SECTION 12: Ecological information

12.1. Toxicity
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2. Persistence and degradability
The product is not readily biodegradable.

12.3. Bioaccumulative potential
No data available.

Partition coefficient
No data available.

Bioconcentration factor (BCF)
Not available.

12.4. Mobility in soil
No data available.

Mobility in general
The product is insoluble in water.

12.5. Results of PBT and vPvB assessment
This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

12.6. Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Residual waste
Do not discharge into rivers, lakes, mountains, etc. because the product may affect the environment.
Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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
Do not discharge into drains, water courses or onto the ground. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

ADR
14.1. - 14.6.: Not regulated as dangerous goods.

RID
14.1. - 14.6.: Not regulated as dangerous goods.

ADN
14.1. - 14.6.: Not regulated as dangerous goods.

IATA
14.1. - 14.6.: Not regulated as dangerous goods.

IMDG
14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

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 (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended
  Not listed.
- Regulation (EU) No. 649/2012 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 authorisation, 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.

Other EU regulations
- Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended
  Not listed.

Other regulations
The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended.
This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations
Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.
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.
- TWA: Time weighted average.
- STEL: Short term exposure limit.

References

- HSDB® - Hazardous Substances Data Bank
- ECHA CHEM

Information on evaluation method leading to the classification of mixture

The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.

Full text of any H-statements not written out in full under Sections 2 to 15

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.

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.