

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

1.1. Product identifier

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| 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 | 03 |
| Revision date | 14-July-2014 |
| Supersedes date | 28-June-2013 |

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

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|----------------------|---|
| Identified uses | Automotive Amine curing RTV silicone sealant. |
| Uses advised against | None known. |

1.3. Details of the supplier of the safety data sheet

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|---------------------------------|--|
| 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 |
| | 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 Directive 67/548/EEC or 1999/45/EC as amended

Classification Xi;R36/38

The full text for all R-phrases is displayed in section 16.

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 1 | H318 - Causes serious eye damage. |

Hazard summary

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|-----------------------|---|
| Physical hazards | Not classified for physical hazards. |
| Health hazards | Irritating to eyes and skin. |
| Environmental hazards | Not classified for hazards to the environment. |
| Specific hazards | Prolonged exposure may cause chronic effects. |
| Main 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. |

2.2. Label elements

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

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

Hazard pictograms



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|---------------------------------------|---|
| Signal word | Warning |
| Hazard statements | H315 - Causes skin irritation. H318 - Causes serious eye damage. |
| Precautionary statements | |
| Prevention | P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. |
| 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. 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 | In high concentrations, vapours may irritate throat and respiratory system and cause coughing. |

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | INDEX No. | Notes |
|--|-------|------------------------------|------------------------|-----------|--|
| N,N',N"-Tricyclohexyl-1-methylsilanetriamine | 1 - 5 | 15901-40-3 240-040-8 | - | - | |
| Classification: | | DSD: C;R35, Xn;R21/22 | | | CLP: Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1A;H314 |
| Carbon black | 1 - 2 | 1333-86-4 215-609-9 | - | - | |
| Classification: | | DSD: - | | | CLP: - |

CLP: Regulation No. 1272/2008.
DSD: Directive 67/548/EEC.

Composition comments The full text for all R- and H-phrases 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

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| 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.

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| 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

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| 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 prolonged 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

UK. EH40 Workplace Exposure Limits (WELs)

| Components | Type | Value |
|------------------------------|------|-----------------------|
| Carbon black (CAS 1333-86-4) | STEL | 7 mg/m ³ |
| | TWA | 3.5 mg/m ³ |

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

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no-effect level (DNEL) 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 protoic 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).

Skin protection

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| - Hand protection | Wear protective gloves. 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 | Environmental manager must be informed of all major releases. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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| Appearance | Paste. |
| 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 available. |
| Oxidizing properties | Not available. |
| 9.2. Other information | |
| Explosive limit | Not available. |
| VOC (Weight %) | 0 % (Hylomar Test Method 1.1A Determination of Volatile Matter) |

SECTION 10: Stability and reactivity

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| 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. |

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| 10.5. Incompatible materials | None known. |
| 10.6. Hazardous decomposition products | Under the effect of humidity, water and protoic 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

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| 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 | |
| Ingestion | Ingestion may cause irritation and malaise. |
| 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. |
| 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 | No data available. |
| 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

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| 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 n-octanol/water (log Kow) | 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 | Not a PBT or vPvB substance or mixture. |
| 12.6. Other adverse effects | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. |

SECTION 13: Disposal considerations

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| 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. |

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| 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

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

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

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

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.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

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

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

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.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

DSD: Directive 67/548/EEC.
CLP: Regulation No. 1272/2008.
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

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 statements or R-phrases and H-statements under Sections 2 to 15

R21/22 Harmful in contact with skin and if swallowed.
R35 Causes severe burns.
R36/38 Irritating to eyes and skin.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.

This SDS contains revisions in the following section(s):

2,11.

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.