

## 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	-
UFI:	3H00-W0TW-N00X-CYF1
Synonyms	None.
SDS number	18
Issue date	17-December-2012
Version number	06
Revision date	10-January-2022
Supersedes date	23-August-2018

### 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	+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 1	H318 - Causes serious eye damage.

### 2.2. Label elements

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

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

##### Hazard pictograms



Signal word: Danger

##### Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage.

##### Precautionary statements

###### Prevention

P264	Wash thoroughly after handling.
P280	Wear protective gloves/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 information on the label

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

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Silicon dioxide, crystalline silica-free	5 - < 10	7631-86-9 231-545-4	01-2119379499-16-XXXX	-	
<b>Classification: -</b>					
Carbon black	0 - < 7	1333-86-4 215-609-9	01-2119384822-32-XXXX	-	#
<b>Classification: -</b>					
N,N',N''-Tricyclohexyl-1-methylsilanetriamine	1 - < 5	15901-40-3 240-040-8	01-2120765341-58-XXXX	-	
<b>Classification: Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1A;H314, Eye Dam. 1;H318</b>					
Zeolites	0 - < 1	1318-02-1 215-283-8	01-2119429034-49-XXXX	-	#
<b>Classification: -</b>					

#### List of abbreviations and symbols that may be used above

#: This substance has been assigned Community workplace exposure limit(s).

#### 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

Will burn if involved in a fire.

#### 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 them. Avoid inhalation of vapours 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.

**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	Form
Carbon black (CAS 1333-86-4)	STEL	7 mg/m3	
	TWA	3.5 mg/m3	
Zeolites (CAS 1318-02-1)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.

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

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)**

**Workers**

Components	Value	Assessment factor	Notes
N,N',N''-Tricyclohexyl-1-methylsilanetriamine (CAS 15901-40-3) Long-term, Local, Inhalation	9.3 mg/m3	1	Skin irritation/corrosion

**Predicted no effect concentrations (PNECs)**

Components	Value	Assessment factor	Notes
N,N',N''-Tricyclohexyl-1-methylsilanetriamine (CAS 15901-40-3)			
Freshwater	0.016 mg/l	100	
Marine water	0.002 mg/l	1000	
Sediment (freshwater)	0.46 mg/kg		
Sediment (marine water)	0.046 mg/kg		

Soil	0.083 mg/kg	
STP	8.8 mg/l	100
<b>Control banding approach</b>	None known.	
<b>8.2. Exposure controls</b>		
<b>Appropriate engineering controls</b>	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.	
<b>Individual protection measures, such as personal protective equipment</b>		
<b>General information</b>	Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles). Eye protection should meet standard EN 166.	
<b>Skin protection</b>		
- <b>Hand protection</b>	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.	
- <b>Other</b>	Normal work clothing (long sleeved shirts and long pants) is recommended.	
<b>Respiratory protection</b>	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. Follow guidance on selection, use, care and maintenance in accordance with EN 529.	
<b>Thermal hazards</b>	Not applicable.	
<b>Hygiene measures</b>	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.	
<b>Environmental exposure controls</b>	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

<b>Physical state</b>	Liquid.
<b>Form</b>	Paste.
<b>Colour</b>	101 Ivory: Ivory. 101 Gray: Grey. 102 Black : Black. 103 Translucent : Colourless. 106 Ivory: Ivory.
<b>Odour</b>	Characteristic. Amine.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	Not applicable.
<b>Initial boiling point and boiling range</b>	Not applicable.
<b>Flash point</b>	200 °C (392 °F)
<b>Evaporation rate</b>	Not determined.
<b>Flammability (solid, gas)</b>	Will burn if involved in a fire.
<b>Upper/lower flammability or explosive limits</b>	
<b>Explosive limit - lower (%)</b>	Not determined.
<b>Explosive limit – upper (%)</b>	Not determined.
<b>Vapour pressure</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	1.15 (25 °C) ( Water = 1)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Insoluble in water.
<b>Partition coefficient (n-octanol/water)</b>	Not determined.

<b>Auto-ignition temperature</b>	440 °C (824 °F)
<b>Decomposition temperature</b>	Not determined.
<b>Viscosity</b>	Not applicable.
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.
<b>9.2. Other information</b>	
<b>Density</b>	Not determined.
<b>Kinematic viscosity</b>	Not applicable.
<b>Specific gravity</b>	1.15 ( Water = 1)
<b>VOC</b>	0 % (Hylomar Test Method 1.1A Determination of Volatile Matter)

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Heat, flames and sparks.
<b>10.5. Incompatible materials</b>	None known.
<b>10.6. Hazardous decomposition products</b>	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

<b>General information</b>	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.
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### Information on likely routes of exposure

<b>Inhalation</b>	In high concentrations, vapours may irritate throat and respiratory system and cause coughing.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye damage.
<b>Ingestion</b>	Ingestion may cause irritation and malaise.

<b>Symptoms</b>	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.
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### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	Ingestion may cause irritation and malaise.
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Components	Species	Test Results
N,N',N"-Tricyclohexyl-1-methylsilanetriamine (CAS 15901-40-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	1594 mg/kg
<b>Oral</b>		
LD50	Rat	642 mg/kg
Silicon dioxide, crystalline silica-free (CAS 7631-86-9)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
<b>Inhalation</b>		
<i>Dust</i>		
LC50	Rat	> 0.14 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.	
<b>Respiratory sensitisation</b>	Based on available data, the classification criteria are not met.	

<b>Skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Inhalation of carbon black dust may cause cancer, however due to the physical form of the product, inhalation of dust is not likely.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - repeated exposure</b>	Due to the physical form of the product, the ingredients are not expected to present a hazard by inhalation.
<b>Aspiration hazard</b>	Due to the physical form of the product it is not expected to be an aspiration hazard.
<b>Mixture versus substance information</b>	No data available.
<b>Other information</b>	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.

Components	Species	Test Results
N,N',N''-Tricyclohexyl-1-methylsilanetriamine (CAS 15901-40-3)		
<b>Aquatic</b>		
<i>Acute</i>		
Algae	EC50 Pseudokirchnerella subcapitata	> 500 mg/l, 72 hours
Fish	EC50 Danio rerio	> 100 mg/l, 96 hours

**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)** Not determined.

**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

<b>Residual waste</b>	Do not discharge into rivers, lakes, mountains, etc. because the product may affect the environment.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	08 04 09* The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	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

#### Retained direct EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**

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.

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

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.

#### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Not listed.

#### Other regulations

This Safety Data Sheet is compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758.

This product is classified and labelled in accordance with the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain.

### 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.  
ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
CAS: Chemical Abstract Service.  
CEN: European Committee for Standardization.  
EC50: Effective Concentration 50%.  
IATA: International Air Transport Association.  
IMDG: International Maritime Dangerous Goods.  
LC50: Lethal Concentration 50%.  
LD50: Lethal Dose, 50%.  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

**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.  
H318 Causes serious eye damage.

**Training information**

Follow training instructions when handling this material.

**Disclaimer**

Hylomar Ltd. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.