SAFETY DATA SHEET

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

1.1. Product identifier
Trade name or designation of the mixture
Hylomar M all grades (Light, Medium and Heavy)
Registration number
-
Synonyms
None.
SDS number
1
Issue date
07-February-2014
Version number
01
Revision date
-
Supersedes date
-

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses
Non-Setting and Non-Hardening Gasketing Compound.
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 Directive 67/548/EEC or 1999/45/EC as amended
Classification
F;R11, Xi;R36, R66-67
The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended
H225 - Highly flammable liquid and vapour.
Category 2 Flammable liquids
H319 - Causes serious eye irritation.
Category 2 Serious eye damage/eye irritation
H336 - May cause drowsiness or dizziness.
Category 3 narcotic effects
Specific target organ toxicity - single exposure
Hazard summary
Physical hazards
Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
Health hazards
Irritating to eyes. Dries out the skin.
Environmental hazards
Not classified for hazards to the environment.
Specific hazards
Irritation of eyes and mucous membranes. Exposed individuals may experience eye tearing, redness, and discomfort. Vapours may cause drowsiness and dizziness.
Main symptoms

2.2. Label elements
Label according to Regulation (EC) No. 1272/2008 as amended
Contains:
Acetone
Hazard pictograms

Signal word Danger
Hazard statements H225 - Highly flammable liquid and vapour.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.

Precautionary statements
Prevention P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Response P312 - Call a POISON CENTRE or doctor/physician if you feel unwell.
Storage P403 + P235 - Store in a well-ventilated place. Keep cool.
P233 - Keep container tightly closed.
Disposal P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information
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.

<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>Acetone</td>
<td>25 - 50</td>
<td>67-64-1, 200-662-2</td>
<td>-</td>
<td>606-001-00-8</td>
<td>#</td>
</tr>
<tr>
<td>Classification: DSD: F;R11, Xi;R36, R66-67</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLP: Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: # This substance has workplace exposure limit(s).
DSD: Directive 67/548/EEC.

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 irritation persists get medical attention.

Eye contact Flush eyes thoroughly with water for at least 15 minutes. Remove any contact lenses. Get medical attention if any discomfort continues.

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

Irritation of eyes and mucous membranes. Exposed individuals may experience eye tearing, redness, and discomfort. Vapours may cause drowsiness and dizziness.

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 highly flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. Vapours are heavier than air and may travel along the ground to some distant source of ignition and flash back.

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, harmful vapours/gases may be formed.

5.3. Advice 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.

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/spray and contact with skin and eyes. 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
Eliminate all ignition sources. Ventilate the area. 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/spray and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid prolonged exposure. 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.

7.3. Specific end use(s)
Non-Setting and Non-Hardening Gasketing Compound.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>STEL</td>
<td>3620 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1210 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>TWA</td>
<td>1210 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm</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 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.
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**
If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn.

**Skin protection**
- **Hand protection**
  Wear protective gloves. Butyl rubber gloves are recommended. Breakthrough time >120 min. 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**
In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with gas filter (type A2). 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

- **Appearance**
  Blue thixotropic gel.
- **Physical state**
  Liquid.
- **Form**
  Thixotropic gel.
- **Colour**
  Blue.
- **Odour**
  Sweet. Ethereal.
- **Odour threshold**
  Not available.
- **pH**
  Not available.
- **Melting point/freezing point**
  Not available.
- **Initial boiling point and boiling range**
  Not applicable.
- **Flash point**
  -17.0 °C (1.4 °F) Closed cup
- **Evaporation rate**
  Not available.
- **Flammability (solid, gas)**
  Not applicable.
- **Upper/lower flammability or explosive limits**
  - Flammability limit - lower (%)  4
  - Flammability limit - upper (%)  57
- **Vapour pressure**
  185 (20 °C/68 °F)
- **Vapour density**
  2 (Air = 1) (20 °C/68 °F)
- **Relative density**
  Light grade: 0.95 (20 °C/68 °F)
  Medium grade: 1.03 (20 °C/68 °F)
  Heavy grade: 1.10 (20 °C/68 °F)
- **Solubility(ies)**
  Slightly miscible.
- **Partition coefficient (n-octanol/water)**
  No data available.
- **Auto-ignition temperature**
  Not available.
- **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 %)**
  25 - 50 (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
Risk of ignition. 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. Avoid temperatures exceeding the flash point.

10.5. Incompatible materials
Strong oxidising agents.

10.6. Hazardous decomposition products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

- Ingestion: Ingestion may cause irritation and malaise.
- Inhalation: Vapours may cause drowsiness and dizziness. In high concentrations, vapours may be irritating to the respiratory system.
- Skin contact: Prolonged or repeated skin contact may cause drying, cracking, or irritation.
- Eye contact: Causes serious eye irritation.

Symptoms
Irritation of eyes and mucous membranes. Exposed individuals may experience eye tearing, redness, and discomfort. Vapours may cause drowsiness and dizziness.

11.1. Information on toxicological effects

Acute toxicity
May cause discomfort if swallowed.

Components | Species | Test results
---|---|---
Acetone (CAS 67-64-1)
Acute
Dermal
LD50 | Rabbit | 20 ml/kg
Inhalation
LC50 | Rat | 50 mg/l, 8 Hours
Oral
LD50 | Rat | 5800 mg/kg

Skin corrosion/irritation
Prolonged or repeated skin contact may cause drying, cracking, or irritation.

Serious eye damage/eye irritation
Causes serious eye irritation.

Respiratory sensitisation
Not classified.

Skin sensitisation
Not classified.

Germ cell mutagenicity
Not classified.

Carcinogenicity
Not classified.

Reproductive toxicity
Not classified.

Specific target organ toxicity - single exposure
May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure
Not classified.

Aspiration hazard
Not classified.

Mixture versus substance information
Not applicable.

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.

Components | Species | Test results
---|---|---
Acetone (CAS 67-64-1)
Aquatic
Fish
LC50 | Fathead minnow (Pimephales promelas) | > 100 mg/l, 96 hours
Rainbow trout, donaldson trout (Oncorhynchus mykiss) | 4740 - 6330 mg/l, 96 hours
12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential
No data available.

Partition coefficient
n-octanol/water (log Kow)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Value (log Kow)</th>
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</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>-0.24</td>
</tr>
</tbody>
</table>

Bioconcentration factor (BCF)
Not available.

12.4. Mobility in soil
No data available.

Mobility in general
The acetone component is miscible with water and may spread in water systems.

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

12.6. Other adverse effects
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. 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
16 03 05*
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.

Special precautions
Dispose of in accordance with local regulations.

SECTION 14: Transport information

ADR
14.1. UN number
UN1133
14.2. UN proper shipping name
Adhesives
14.3. Transport hazard class(es)
<table>
<thead>
<tr>
<th>Class</th>
<th>Subsidiary risk</th>
<th>Label(s)</th>
<th>Hazard No. (ADR)</th>
<th>Tunnel restriction code</th>
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<tbody>
<tr>
<td>3</td>
<td>-</td>
<td>3</td>
<td>33</td>
<td>D/E</td>
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</table>
14.4. Packing group
II
14.5. Environmental hazards
No.
14.6. Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

RID
14.1. UN number
UN1133
14.2. UN proper shipping name
Adhesives
14.3. Transport hazard class(es)
<table>
<thead>
<tr>
<th>Class</th>
<th>Subsidiary risk</th>
<th>Label(s)</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>-</td>
<td>3</td>
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</tbody>
</table>
14.4. Packing group
II
14.5. Environmental hazards
No.
14.6. Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

ADN
14.1. UN number
UN1133
14.2. UN proper shipping name
Adhesives
14.3. Transport hazard class(es)
<table>
<thead>
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<th>Class</th>
<th>Subsidiary risk</th>
<th>Label(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>-</td>
<td>3</td>
</tr>
</tbody>
</table>
14.4. Packing group  II
14.5. Environmental hazards  No.
14.6. Special precautions for user  Read safety instructions, SDS and emergency procedures before handling.

IATA
14.1. UN number  UN1133
14.2. UN proper shipping name  Adhesives
14.3. Transport hazard class(es)
   Class  3
   Subsidiary risk  -
   Label(s)  3
14.4. Packing group  II
14.5. Environmental hazards  No.
14.6. Special precautions for user  Read safety instructions, SDS and emergency procedures before handling.

IMDG
14.1. UN number  UN1133
14.2. UN proper shipping name  ADHESIVES
14.3. Transport hazard class(es)
   Class  3
   Subsidiary risk  -
   Label(s)  3
14.4. Packing group  II
14.5. Environmental hazards
   Marine pollutant  No.
   EmS  F-E, S-D
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 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.
   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(1) 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

Hylomar M all grades (Light, Medium and Heavy)  SDS UK
903258  Version No.: 01  Revision date: -  Issue date: 07-February-2014
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Acetone (CAS 67-64-1)

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

Acetone (CAS 67-64-1)

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. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended and respective national laws implementing EC directives.

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

DNEL: Derived No-Effect Level.
PNEC: Predicted No-Effect Concentration.
LD50: Lethal Dose, 50%.
LC50: Lethal Concentration, 50%.
DSD: Directive 67/548/EEC.

References

Not available.

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

R11 Highly flammable.
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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.