SAFETY DATA SHEET

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

Product identifier
Trade name or designation of the mixture
Hylomar M Aerosol
Registration number
- Synonyms
None.
SDS number
7
Date of first issue
22-August-2011
Version number
01
Revision date
-
Supersedes date
-

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.

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
Emergency telephone:
1-760-476-3961
Access code: 333544

Section 2: Hazards identification

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+; R12, 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

Physical hazards
Flammable aerosols
Category 1
Extremely flammable aerosol.

Health hazards
Serious eye damage/eye irritation
Category 2
Causes serious eye irritation.
Specific target organ toxicity - single exposure
Category 2 (Central nervous system)
May cause damage to organs (Central nervous system).
Specific target organ toxicity - single exposure
Category 3 narcotic effects
May cause drowsiness or dizziness.

Hazard summary

Physical hazards
Extremely flammable.
Health hazards
Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Environmental hazards
Not classified for hazards to the environment.
Specific hazards
When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. Aerosol containers can explode when heated, due to excessive pressure build-up. Causes severe eye irritation. Vapours may cause drowsiness and dizziness.

Main symptoms
Exposed may experience eye tearing, redness, and discomfort. Prolonged and/or repeated skin contact may result in mild irritation or redness. Vapours may cause drowsiness and dizziness. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

Contains:

Acetone, Dimethyl ether

Signal word

Danger

Hazard statements

Extremely flammable aerosol. Causes serious eye irritation. May cause drowsiness or dizziness. May cause damage to organs (Central nervous system).

Precautionary statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Pressurised container: Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Do not breathe mist/vapours/spray. Wear eye/face protection. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF eye irritation persists: Get medical advice/attention. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Storage

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

Disposal

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

Supplemental label information

Repeated exposure may cause skin dryness or cracking.

Other hazards

Not assigned.

Section 3: Composition/information on ingredients

Mixture

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>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>Dimethyl ether</td>
<td>25 - 50</td>
<td>115-10-6 204-065-8</td>
<td>-</td>
<td>603-019-00-8</td>
<td>#</td>
</tr>
</tbody>
</table>

Classification:

DSD: F;R11, Xi;R36, R66-67
CLP: Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336

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

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.

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.

Most important symptoms and effects, both acute and delayed

Exposed may experience eye tearing, redness, and discomfort. Prolonged and/or repeated skin contact may result in mild irritation or redness. Vapours may cause drowsiness and dizziness. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen.

Section 5: Firefighting measures

General fire hazards

Extremely flammable aerosol - contents under pressure. Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely 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.

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.

Special hazards arising from the substance or mixture
Aerosol containers can explode when heated, due to excessive pressure build-up. By heating and fire, harmful vapours/gases may be formed.

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 fighting fire: follow the general fire precautions indicated in the workplace.

Special firefighting 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

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. Keep unnecessary personnel away.

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

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

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.

Reference to other sections
For personal protection, see section 8. For waste disposal, see section 13.

Section 7: Handling and storage

Precautions for safe handling
Keep away from sources of ignition - No smoking. Use non-sparking tools and explosion-proof equipment. Vapours may form explosive mixtures with air. Use only outdoors or in a well-ventilated area. Avoid inhalation of vapours and spray mist 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.

Conditions for safe storage, including any incompatibilities
Pressurised container: Must not be exposed for temperatures above 50°C. Aerosol containers can explode when heated, due to excessive pressure build-up. Keep away from heat, spark, open flames and other sources of ignition. Do not puncture, incinerate or crush. Avoid exposure to long periods of sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up.

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

Section 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>UK. EH40 Workplace Exposure Limits (WELs) Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (67-64-1)</td>
<td>TWA</td>
<td>1210 mg/m3</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>1500 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3620 mg/m3</td>
</tr>
<tr>
<td>Dimethyl ether (115-10-6)</td>
<td>TWA</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>958 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>766 mg/m3</td>
</tr>
</tbody>
</table>
EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents.

### Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (67-64-1)</td>
<td>TWA</td>
<td>1210 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td>Dimethyl ether (115-10-6)</td>
<td>TWA</td>
<td>1000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1920 mg/m³</td>
</tr>
</tbody>
</table>

#### Recommended monitoring procedures
- Follow standard monitoring procedures.

#### DNEL
- Not available.

#### PNEC
- Not available.

### Exposure 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

#### Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Aerosol Blue thixotropic gel.</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Form</td>
<td>Aerosol Thixotropic gel.</td>
</tr>
<tr>
<td>Colour</td>
<td>Blue.</td>
</tr>
<tr>
<td>Odour</td>
<td>Sweet. Ethereal.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point, initial boiling point, and boiling range</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability limit - lower (%)</td>
<td>3.4</td>
</tr>
<tr>
<td>Flammability limit - upper (%)</td>
<td>57</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive limit</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>185 (20 °C/68 °F)</td>
</tr>
<tr>
<td>Vapour density</td>
<td>2 (Air = 1) (20 °C/68 °F)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>
Relative density 1.03 (20 °C/68 °F)
Solubility (water) Insoluble.
Partition coefficient (n-octanol/water) Not available.
Decomposition temperature Not available.
Viscosity Not applicable.
VOC (Weight%) 40 - 44 (Hylomar Test Method 1.1A Determination of Volatile Matter)
Percent volatile Not available.
Other information No relevant additional information available.

Section 10: Stability and reactivity
Reactivity The product is stable and non reactive under normal conditions of use, storage and transport.
Chemical stability Risk of ignition. Material is stable under normal conditions.
Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.
Conditions to avoid Heat, flames and sparks. Pressurised container: Must not be exposed for temperatures above 50°C. Protect against direct sunlight.
Incompatible materials Strong oxidising agents.
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 Exposed may experience eye tearing, redness, and discomfort. Prolonged and/or repeated skin contact may result in mild irritation or redness. Vapours may cause drowsiness and dizziness. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects
Acute toxicity May cause discomfort if swallowed.

Components Test results
Dimethyl ether (115-10-6) Acute Inhalation LC50 Rat: 308.5 mg/l 4 Hours
Acetone (67-64-1) Acute Dermal LD50 Rabbit: 20000 mg/kg
Acute Inhalation LC50 Rat: 50 mg/l 8 Hours
Acute 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. May cause damage to organs: Central nervous system.
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

Toxicity

<table>
<thead>
<tr>
<th>Components</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (67-64-1)</td>
<td>LC50 Fathead minnow (Pimephales promelas): &gt; 100 mg/l 96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility

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

Environmental fate -

Partition coefficient

Not available.

Mobility in soil

Not available.

Results of PBT and vPvB assessment

Not a PBT or vPvB substance or mixture.

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

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

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

UN number

UN1950

UN proper shipping name

AEROSOLS.

Transport hazard class(es)

2.1

Subsidiary class(es)

-

Environmental hazards

No

Labels required

2.1

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

RID

UN number

UN1950

UN proper shipping name

AEROSOLS.

Transport hazard class(es)

2.1

Subsidiary class(es)

-

Environmental hazards

No

Labels required

2.1

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

ADN

UN number

UN1950

UN proper shipping name

AEROSOLS.

Transport hazard class(es)

2.1

Subsidiary class(es)

-

Environmental hazards

No

Labels required

2.1

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number

UN1950

UN proper shipping name

Aerosols, flammable.

Transport hazard class(es)

2.1

Subsidiary class(es)

-

Environmental hazards

No
2.1 Labels required
Read safety instructions, SDS and emergency procedures before handling.

IMDG
UN number  UN1950
UN proper shipping name AEROSOLS.
Transport hazard class(es)  2.1
Subsidiary class(es) -
Marine pollutant No
Labels required  2.1
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulations
- Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I
  Not listed.
- Regulation (EC) No. 2037/2000 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
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V
  Not listed.
- Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registery (EPER)
  Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List
  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
Not available.

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.

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-phrases under Sections 2 to 15
- R11 Highly flammable.
- R12 Extremely flammable.
- R36 Irritating to eyes.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.
- H220 - Extremely flammable gas.
- H225 - Highly flammable liquid and vapour.
- H319 - Causes serious eye irritation.
- H336 - May cause drowsiness or dizziness.
- H371 - May cause damage to organs.

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.

Issue date 22-August-2011
Revision date 22-August-2011