SAFETY DATA SHEET

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

1.1. Product identifier

<table>
<thead>
<tr>
<th>Trade name or designation of the mixture</th>
<th>Hylotyte Red 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration number</td>
<td>-</td>
</tr>
<tr>
<td>Synonyms</td>
<td>None.</td>
</tr>
<tr>
<td>SDS number</td>
<td>37</td>
</tr>
<tr>
<td>Issue date</td>
<td>08-March-2017</td>
</tr>
<tr>
<td>Version number</td>
<td>01</td>
</tr>
<tr>
<td>Revision date</td>
<td>-</td>
</tr>
<tr>
<td>Supersedes date</td>
<td>-</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Identified uses</th>
<th>Non-Setting and Non-Hardening Gasketing Compound.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uses advised against</td>
<td>Use in accordance with supplier's recommendations.</td>
</tr>
</tbody>
</table>

1.3. Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Hylomar Ltd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Hylo House, Cale Lane, New Springs, Wigan, Greater Manchester, UK, WN2 1JT</td>
</tr>
<tr>
<td>Telephone number</td>
<td>+44(0)1942 617000</td>
</tr>
<tr>
<td>E-mail address</td>
<td><a href="mailto:info@hylomar.co.uk">info@hylomar.co.uk</a></td>
</tr>
<tr>
<td>Contact person</td>
<td>Technical Department</td>
</tr>
<tr>
<td>1.4. Emergency telephone number</td>
<td>+1-760-476-3961 (US)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Physical hazards</th>
<th>Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids</td>
<td>H225 - Highly flammable liquid and vapour.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Health hazards</th>
<th>Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>H319 - Causes serious eye irritation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specific target organ toxicity - single exposure</th>
<th>Category 3 narcotic effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard summary</td>
<td>Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.</td>
</tr>
</tbody>
</table>

2.2. Label elements

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

<table>
<thead>
<tr>
<th>Contains:</th>
<th>Acetone</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Danger</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Hazard statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>H225</td>
</tr>
<tr>
<td>H319</td>
</tr>
<tr>
<td>H336</td>
</tr>
</tbody>
</table>
Precautionary statements

Prevention
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
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.

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.

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>Acetone</td>
<td>30 - 50</td>
<td>67-64-1 200-662-2</td>
<td>- 606-001-00-8</td>
<td>#</td>
<td></td>
</tr>
</tbody>
</table>

Classification: Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336

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
If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

4.1. Description of first aid measures

Inhalation
If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Skin contact
Immediately take off all contaminated clothing. Wash skin thoroughly with soap and water. If irritation persists get medical attention.

Eye contact
Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

Ingestion
Rinse mouth. 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. Skin irritation. Defatting of the skin. 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, 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
Use standard firefighting procedures and consider the hazards of other involved materials. 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/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
Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking. Avoid inhalation of vapours/spray and contact with skin and eyes. 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.

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>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>STEL</td>
<td>3620 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1500 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1210 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm</td>
<td></td>
</tr>
<tr>
<td>Silica, amorphous, fumed (CAS 112945-52-5)</td>
<td>TWA</td>
<td>6 mg/m³</td>
<td>Inhalable dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.4 mg/m³</td>
<td>Respirable dust.</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 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. Eye wash facilities and emergency shower must be available when handling this product.
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. 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**
Wear appropriate thermal protective clothing, when necessary.

**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**
- **Physical state** Liquid.
- **Form** Thixotropic gel.
- **Colour** Red.
- **Odour** Acetone.
- **Odour threshold** Not available.
- **pH** Not available.
- **Melting point/freezing point** Not available.
- **Initial boiling point and boiling range** Not available.
- **Flash point** -17.0 °C (1.4 °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** 0.95 (20 °C)

**Solubility(ies)** Insoluble in water.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Explosive properties** Not explosive.

**Oxidising properties** Not oxidising.

9.2. Other information

**VOC** 40 %

**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.
Heat, flames and sparks.

Strong oxidising agents.

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

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.

Ingestion

Ingestion may cause irritation and malaise.

Symptoms

Irritation of eyes and mucous membranes. Skin irritation. Defatting of the skin. Vapours may cause drowsiness and dizziness.

11.1. Information on toxicological effects

Acute toxicity

Not expected to be acutely toxic.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute Dermal</td>
<td>Rabbit</td>
<td>&gt; 20 ml/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Rat</td>
<td>50 mg/l, 8 Hours</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>5800 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation

May cause skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Not an aspiration hazard.

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.

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

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log Kow)

-0.24

Acetone (CAS 67-64-1)
Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil The product contains organic solvents which will evaporate easily from all surfaces.

Mobility in general The product contains organic solvents which will evaporate easily from all surfaces.

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

12.6. Other adverse effects The product contains a substance which has a photochemical ozone creation potential.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

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. UN number UN1133
14.2. UN proper shipping name ADHESIVES.
14.3. Transport hazard class(es)
   Class 3
   Subsidiary risk -
   Label(s) 3
   Hazard No. (ADR) 33
   Tunnel restriction code D/E
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)
   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.

ADN

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.

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
   - 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.

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
   - 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 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
  - 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, as amended.
  - Not listed.

Other EU regulations
- Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended
  - Acetone (CAS 67-64-1)

Other regulations
This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended and respective national laws implementing EC directives.
Follow national regulation for work with chemical agents.

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

- DNEL: Derived No-Effect Level.
- PBT: Persistent, bioaccumulative and toxic.
- PNEC: Predicted No-Effect Concentration.
- vPvB: Very Persistent and very Bioaccumulative.
- LD50: Lethal Dose, 50%.
- LC50: Lethal Concentration, 50%.
- STEL: Short term exposure limit.

References

- HSDB® - Hazardous Substances Data Bank
- Registry of Toxic Effects of Chemical Substances (RTECS)
- ESIS (European chemical Substances Information System)

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

- 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.