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

1.1. Product identifier

Trade name or designation of the mixture: Aerograde PL32 - Light, Medium & Heavy Grades

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:
- Carc. Cat. 3; R40, Xn; R22-48/20, 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:
- Acute toxicity, oral: Category 4
- Skin corrosion/irritation: Category 2
- Serious eye damage/eye irritation: Category 2
- Carcinogenicity: Category 2
- Specific target organ toxicity - repeated exposure: Category 2 (Central nervous system)

Hazard summary:
- Physical hazards: Not classified for physical hazards.
- Health hazards: Harmful if swallowed. Irritating to eyes and skin. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- Environmental hazards: Not classified for hazards to the environment.
- Specific hazards: Prolonged exposure may cause chronic effects.
- Main symptoms: Symptoms include itching, burning, redness, and tearing of eyes. Itching, redness, burning of skin. Vapours may cause drowsiness and dizziness.

2.2. Label elements

Aerograde PL32 - Light, Medium & Heavy Grades
SDS UK
903690  Version No.: 03  Revision date: 23-July-2013  Issue date: 22-August-2011
Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Dichlormethane

Hazard pictograms

Signal word Danger

Hazard statements
- H302 - Harmful if swallowed.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.
- H351 - Suspected of causing cancer.
- H373 - May cause damage to organs (Central nervous system) through prolonged or repeated exposure.

Precautionary statements

Prevention
- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P260 - Do not breathe mist or vapour.
- P264 - Wash thoroughly after handling.
- P280 - Wear protective gloves/eye protection/face protection.

Response
- P301 + P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
- P330 - Rinse mouth.
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
- P332 + P313 - If skin irritation occurs: Get medical advice/attention.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 - If eye irritation persists: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.

Storage
- P405 - Store locked up.

Disposal
- P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information
- Not applicable.

2.3. Other hazards
- Not assigned.

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>Dichlormethane</td>
<td>25-65</td>
<td>75-09-2</td>
<td>-</td>
<td>602-004-00-3</td>
<td></td>
</tr>
</tbody>
</table>

Classification:
- DSD: Carc. Cat. 3;R40, Xn;R22-48/20, Xi;R36/38
- CLP: Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Carc. 2;H351, STOT RE 2;H373

#; This substance has workplace exposure limit(s).
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

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 develops and persists, get medical attention.

Eye contact
- Immediately rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention.

Ingestion
- Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Drink a few glasses of water or milk. Get medical attention immediately.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms include itching, burning, redness, and tearing of eyes. Itching, redness, burning of 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 not flammable.

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. Solvent vapours may form explosive mixtures with air.

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/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. Store in closed original container at temperatures between 5°C and 25°C.

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>Dichlormethane (CAS 75-09-2)</td>
<td>STEL</td>
<td>1060 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>300 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>350 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

Aerograde PL32 - Light, Medium & Heavy Grades
903690   Version No.: 03   Revision date: 23-July-2013   Issue date: 22-August-2011

SDS UK
Biological limit values

UK. EH40 Biological Monitoring Guidance Values (BMGVs)

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichlormethane (CAS 75-09-2)</td>
<td>30 ppm</td>
<td>Carbon monoxide</td>
<td>end-tidal breath</td>
<td>*</td>
</tr>
</tbody>
</table>

* - For sampling details, please see the source document.

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

Exposure guidelines

UK EH40 WEL: Skin designation

Dichlormethane (CAS 75-09-2) Can be absorbed through the skin.

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. Polyvinyl alcohol 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

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.

Odour threshold

Not available.

pH

Not applicable.

Melting point/freezing point

Not available.

Initial boiling point and boiling range

Not applicable.

Flash point

Not applicable.

Evaporation rate

Not applicable.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not applicable.

Flammability limit - upper (%)

Not applicable.
Vapour pressure: 47 kPa (20 °C)
Vapour density: 2.93 (Air = 1) (20 °C)
Relative density: 1.32 (20 °C)
Solubility(ies): Slightly miscible.
Partition coefficient (n-octanol/water): Log Pow: 1.25 - 1.30 (measured)
Auto-ignition temperature: 600 °C (1112 °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 %): 25 - 65 % (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: 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, sparks, flames, elevated temperatures.

SECTION 11: Toxicological information

General information: Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure:
  Ingestion: Harmful if swallowed. Ingestion may cause irritation and malaise.
  Inhalation: Vapours may cause drowsiness and dizziness.
  Skin contact: Causes skin irritation. May be absorbed through the skin.
  Eye contact: Causes serious eye irritation.
Symptoms: Symptoms include itching, burning, redness, and tearing of eyes. Itching, redness, burning of skin. Vapours may cause drowsiness and dizziness.

11.1. Information on toxicological effects

Acute toxicity: Harmful if swallowed.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerograde PL32 - Light, Medium &amp; Heavy Grades (CAS Mixture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>15000 ppm</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>1410 - 2524 mg/kg</td>
</tr>
<tr>
<td>Components</td>
<td>Species</td>
<td>Test results</td>
</tr>
<tr>
<td>Dichlormethane (CAS 75-09-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Guinea pig</td>
<td>40.2 mg/l, 6 Hours</td>
</tr>
<tr>
<td></td>
<td>Mouse</td>
<td>56.23 mg/l, 7 Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>51.5 mg/l, 2 Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>49.1 mg/l, 6 Hours</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>2000 mg/l, 15 Minutes</td>
</tr>
</tbody>
</table>
### Components

<table>
<thead>
<tr>
<th>Test results</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>88 mg/l, 900 Days</td>
<td>LD50</td>
<td>Mouse</td>
</tr>
<tr>
<td>79 mg/l, 2 Hours</td>
<td>LD50</td>
<td>Oral</td>
</tr>
<tr>
<td>52 mg/l, 6 Hours</td>
<td>LD50</td>
<td>Rat</td>
</tr>
<tr>
<td>1600 mg/l, 7 Hours</td>
<td>Other</td>
<td>Mouse</td>
</tr>
<tr>
<td>1600 mg/kg</td>
<td>LD50</td>
<td></td>
</tr>
<tr>
<td>437 mg/kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**
Causes skin irritation.

**Serious eye damage/eye irritation**
Causes serious eye irritation.

**Respiratory sensitisation**
Not classified.

**Skin sensitisation**
Not classified.

**Germ cell mutagenicity**
Positive in vitro, but negative in vivo assays.

**Carcinogenicity**
Suspected of causing cancer.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Dichlormethane (CAS 75-09-2) 2B Possibly carcinogenic to humans.

**Reproductive toxicity**
Not classified.

**Specific target organ toxicity - single exposure**
Not classified.

**Specific target organ toxicity - repeated exposure**
May cause damage to organs through prolonged or repeated exposure: Central nervous system. Liver. Kidneys.

**Aspiration hazard**
Not classified.

**Mixture versus substance information**
Not available.

**Other information**
Symptoms may be delayed. Severe overexposure may cause cardiac sensitisation and result in irregular rhythm.

### 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>Product</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerograde PL32 - Light, Medium &amp; Heavy Grades (CAS Mixture)</td>
<td>LC50</td>
<td>Salmo garidneri</td>
</tr>
<tr>
<td></td>
<td>EC50</td>
<td>Algae</td>
</tr>
<tr>
<td></td>
<td>EC50</td>
<td>Daphnia magna</td>
</tr>
<tr>
<td></td>
<td>LC50</td>
<td>Guppy (Poecilia reticulata)</td>
</tr>
<tr>
<td></td>
<td>NOEC</td>
<td>Pimephales promelas</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability
The product is not readily biodegradable. BOD: 5 - 25% / 28 days. The product is intrinsically biodegradable. Degradation = 100% / 28 days.

#### 12.3. Bioaccumulative potential
Potential to bioaccumulate is low. BCF (Cyprinus carpio): 6.4 - 40, 42 days at 0.025 ppm. Log Pow: 1.25 - 1.30 (measured).

#### Partition coefficient

**n-octanol/water (log Kow)**

| Dichlormethane (CAS 75-09-2) | Log Pow: 1.25 - 1.30 (measured) |

#### Bioconcentration factor (BCF)
Not available.

#### 12.4. Mobility in soil
Not available.

#### Mobility in general
The product is slightly soluble in water.
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:
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: UN2810
- Transport hazard class(es): 6.1
- Subsidiary class(es): -
- Packing group: III
- Environmental hazards: No
- Labels required: 6.1
- Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.

RID
- UN number: UN2810
- Transport hazard class(es): 6.1
- Subsidiary class(es): -
- Packing group: III
- Environmental hazards: No
- Labels required: 6.1
- Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.

ADN
- UN number: UN2810
- Transport hazard class(es): 6.1
- Subsidiary class(es): -
- Packing group: III
- Environmental hazards: No
- Labels required: 6.1
- Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.

IATA
- UN number: UN2810
- Transport hazard class(es): 6.1
- Subsidiary class(es): -
- Packing group: III
14.5. Environmental hazards
Labels required 6.1
ERG code 6L

14.6. Special precautions for user
Read safety instructions, MSDS and emergency procedures before handling.

IMDG
14.1. UN number UN2810
14.2. UN proper shipping name
Toxic liquid, organic, n.o.s. (Dichloromethane)
14.3. Transport hazard class(es) 6.1
14.4. Packing group III
14.5. Environmental hazards
Marine pollutant No
Labels required 6.1
EmS F-A, S-A

14.6. Special precautions for user
Read safety instructions, MSDS 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
Dichloromethane (CAS 75-09-2)
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
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Dichloromethane (CAS 75-09-2)
Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work
Not regulated.
Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding
Dichloromethane (CAS 75-09-2)

Other EU regulations
Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances
Not regulated.
Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
Dichlormethane (CAS 75-09-2)

Directive 94/33/EC on the protection of young people at work
Dichlormethane (CAS 75-09-2)

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
Young people under 18 years old are not allow to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

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.

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
R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.
R40 Limited evidence of a carcinogenic effect.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.

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.