1. Identification

Product identifier: Universal Blue - Light, Medium & Heavy Grades

Other means of identification

SDS number: 2

Recommended use: Non-Setting and Non-Hardening Gasketing Compound.

Recommended restrictions: None known.

Manufacturer / Importer / Supplier / Distributor information

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: 1.866.519.4752 (USA, Canada, Mexico)
1-760-476-3962
Access code: 333544

2. Hazard(s) identification

Physical hazards: Not classified.

Health hazards

- Acute toxicity, oral: Category 4
- Skin corrosion/irritation: Category 2
- Serious eye damage/eye irritation: Category 2A
- Carcinogenicity: Category 2
- Specific target organ toxicity, repeated exposure: Category 2 (central nervous system, kidney, liver, lung)

Environmental hazards: Not classified.

OSHA defined hazards: Not classified.

Label elements

Signal word: Warning

Hazard statement: Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. May cause damage to organs (central nervous system, kidney, liver, lung) through prolonged or repeated exposure.

Precautionary statement

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Wear protective gloves/eye protection/face protection. Wash thoroughly after handling.

Response: If exposed: Call a poison center/doctor. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. 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. Take off contaminated clothing and wash before reuse.

Storage: Store locked up.

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

Hazard(s) not otherwise classified (HNOC): None known.

3. Composition/information on ingredients

Mixtures
Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. 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 does not get into the lungs. Drink a few glasses of water or milk. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Symptoms include itching, burning, redness, and tearing of eyes. Itching, redness, burning of skin. Vapors may cause drowsiness and dizziness.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

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.

Specific hazards arising from the chemical
By heating and fire, toxic vapors/gases may be formed. Solvent vapors may form explosive mixtures with air.

Special protective equipment and precautions 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.

Fire-fighting equipment/instructions
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.

General fire hazards
The product is not flammable.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of vapors/spray and contact with skin and eyes. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep out of low areas. Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this SDS.

Methods and materials 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.

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

7. Handling and storage

Precautions for safe handling
Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area. Avoid inhalation of vapors/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.

Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, spark, open flames and other sources of ignition. Store away from incompatible materials. Store locked up. Store in closed original container at temperatures between 5°C and 25°C.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichloromethane (CAS 75-09-2)</td>
<td>STEL</td>
<td>125 ppm</td>
</tr>
</tbody>
</table>
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>25 ppm</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichloromethane (CAS 75-09-2)</td>
<td>TWA</td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

Biological limit values

ACGIH Biological Exposure Indices

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichloromethane (CAS 75-09-2)</td>
<td>0.3 mg/l</td>
<td>2-Chloromethane</td>
<td>Urine</td>
<td>*</td>
</tr>
</tbody>
</table>

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

Exposure guidelines
Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors.

Appropriate engineering controls
Follow standard monitoring procedures.

Individual protection measures, such as 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 vapors, use suitable respiratory equipment. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.

Thermal hazards
Not applicable.

General hygiene considerations
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.

9. Physical and chemical properties

Appearance
Blue thixotropic gel.

Physical state
Liquid.

Form
Thixotropic gel.

Color
Blue.

Odor
Sweet.

Odor 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.

Explosive limit - lower (%)
Not available.

Explosive limit - upper (%)
Not available.
Vapor pressure
47 kPa (20 °C)

Vapor density
2.93 (Air = 1) (20 °C)

Relative density
1.32 (20 °C)

Solubility(ies)
Solubility (water) Slightly miscible.

Partition coefficient
Log Pow: 1.25 - 1.30 (measured)

Auto-ignition temperature
1112 °F (600 °C)

Decomposition temperature
Not available.

Viscosity
Not applicable.

Other information
Explosive limit Not available.
Explosive properties Not available.
Oxidizing properties Not available.
VOC (Weight %) 25 - 65 % (Hylomar Test Method 1.1A Determination of Volatile Matter)

10. Stability and reactivity
Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability
Material is stable under normal conditions.

Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

Conditions to avoid
Heat, sparks, flames, elevated temperatures.

Incompatible materials
Strong oxidizing agents. Alkali metals.

Hazardous decomposition products

11. Toxicological information

Information on likely routes of exposure
Ingestion
Harmful if swallowed.

Inhalation
Vapors may cause drowsiness and dizziness.

Skin contact
Causes skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May be absorbed through the skin.

Eye contact
Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics
Symptoms include itching, burning, redness, and tearing of eyes. Itching, redness, burning of skin. Vapors may cause drowsiness and dizziness.

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>Universal Blue - Light, Medium &amp; Heavy Grades (CAS Mixture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute Dermal</td>
<td>Rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Inhalation LC50</td>
<td>Rat</td>
<td>15000 ppm</td>
</tr>
<tr>
<td>Oral 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 Inhalation 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>
</tr>
</thead>
<tbody>
<tr>
<td>88 mg/l, 900 Days</td>
<td>Mouse</td>
</tr>
<tr>
<td>79 mg/l, 2 Hours</td>
<td>Oral</td>
</tr>
<tr>
<td>52 mg/l, 6 Hours</td>
<td>LD50</td>
</tr>
<tr>
<td>16000 mg/l, 7 Hours</td>
<td>Rat</td>
</tr>
<tr>
<td>1600 mg/kg</td>
<td>Other</td>
</tr>
<tr>
<td>437 mg/kg</td>
<td>LD50</td>
</tr>
</tbody>
</table>

### Skin corrosion/irritation
- Causes skin irritation.

### Serious eye damage/eye irritation
- Causes serious eye irritation.

### Respiratory or skin sensitization
- Respiratory sensitization: Not classified.
- Skin sensitization: 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.

#### NTP Report on Carcinogens
- Dichlormethane (CAS 75-09-2) Reasonably Anticipated to be a Human Carcinogen.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
- Dichlormethane (CAS 75-09-2) Cancer

### Reproductive toxicity
- Not classified.

### Specific target organ toxicity - single exposure
- May cause damage to the following organs through prolonged or repeated exposure: Central nervous system. Liver. Kidneys. Lung.

### Specific target organ toxicity - repeated exposure
- Not classified.

### Aspiration hazard
- Not classified.

### Chronic effects
- Severe overexposure may cause cardiac sensitization and result in irregular rhythm. Prolonged or repeated overexposure may cause central nervous system, kidney, liver, and lung damage.

### Further information
- Symptoms may be delayed.

### 12. Ecological information

#### Ecotoxicity
- 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.

#### Product

<table>
<thead>
<tr>
<th>Test Results</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.5 mg/l, 96 hours</td>
<td>Salmo garidneri</td>
</tr>
<tr>
<td>&gt; 662 mg/l, 48 hours</td>
<td>Algae</td>
</tr>
<tr>
<td>135 - 2270 mg/l, 48 hours</td>
<td>Daphnia magna</td>
</tr>
<tr>
<td>295 mg/l, 14 days</td>
<td>Guppy (Poecilia reticulata)</td>
</tr>
<tr>
<td>357 mg/l, 8 days</td>
<td>Pimephales promelas</td>
</tr>
</tbody>
</table>

#### Components

<table>
<thead>
<tr>
<th>Test Results</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>1250 mg/l, 48 hours</td>
<td>Water flea (Daphnia magna)</td>
</tr>
<tr>
<td>140.8 - 277.8 mg/l, 96 hours</td>
<td>Fathead minnow (Pimephales promelas)</td>
</tr>
</tbody>
</table>

#### Aquatic

<table>
<thead>
<tr>
<th>Test Results</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>1250 mg/l, 48 hours</td>
<td>Water flea (Daphnia magna)</td>
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<td>Fathead minnow (Pimephales promelas)</td>
</tr>
</tbody>
</table>

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

#### 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) 1.25

#### Mobility in soil
- Not available.
Mobility in general  The product is slightly soluble in water.
Other adverse effects  An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. Disposal considerations

Disposal instructions  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.
Local disposal regulations  Dispose of in accordance with local regulations.
Hazardous waste code  The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US RCRA Hazardous Waste U List: Reference
Dichlormethane (CAS 75-09-2) U080
Waste from residues / unused products  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.

14. Transport information

DOT
UN number  UN2810
UN proper shipping name  Toxic liquid, organic, n.o.s. (Dichlormethane)
Transport hazard class(es)  6.1
Class  6.1
Subsidiary risk  -
Packing group  III
Environmental hazards  No
Marine pollutant  No
Special precautions for user  Read safety instructions, SDS and emergency procedures before handling.
Special provisions  IB3, T7, TP1, TP28
Packaging exceptions  153
Packaging non bulk  203
Packaging bulk  241

IATA
UN number  UN2810
UN proper shipping name  Toxic liquid, organic, n.o.s. (Dichlormethane)
Transport hazard class(es)  6.1
Class  6.1
Subsidiary risk  -
Label(s)  6.1
Packing group  III
Environmental hazards  No
ERG Code  6L
Special precautions for user  Read safety instructions, SDS and emergency procedures before handling.

IMDG
UN number  UN2810
UN proper shipping name  Toxic liquid, organic, n.o.s. (Dichlormethane)
Transport hazard class(es)  6.1
Class  6.1
Subsidiary risk  -
Label(s)  6.1
Packing group  III
Environmental hazards  No
Marine pollutant  No
EmS  F-A, S-A
Special precautions for user  Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  Not applicable.

15. Regulatory information

US federal regulations  This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)  Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Dichlormethane (CAS 75-09-2)
- Cancer
- Heart
- Central nervous system
- Liver
- Skin irritation
- Eye irritation

CERCLA Hazardous Substance List (40 CFR 302.4)
Dichlormethane (CAS 75-09-2)
LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
- Immediate Hazard - Yes
- Delayed Hazard - Yes
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

SARA 302 Extremely hazardous substance
Not listed.
SARA 311/312 Hazardous chemical
No
SARA 313 (TRI reporting)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichlormethane</td>
<td>75-09-2</td>
<td>25-65</td>
</tr>
</tbody>
</table>

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Dichlormethane (CAS 75-09-2)
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
Safe Drinking Water Act (SDWA)
Not regulated.

US state regulations
WARNING: This product contains a chemical known to the State of California to cause cancer.

US. Massachusetts RTK - Substance List
Dichlormethane (CAS 75-09-2)
US. New Jersey Worker and Community Right-to-Know Act
Dichlormethane (CAS 75-09-2)
US. Pennsylvania Worker and Community Right-to-Know Law
Dichlormethane (CAS 75-09-2)
US. Rhode Island RTK
Dichlormethane (CAS 75-09-2)

US. California Proposition 65
US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Dichlormethane (CAS 75-09-2)

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).
Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.