

1. Identification

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| Product identifier | Hylomar 760 / Hylomar 5059 / Hylomar HY5172 |
| Other means of identification | |
| SDS number | 35 |
| Recommended use | Pipe thread sealant. |
| Recommended restrictions | None known. |
| Manufacturer/Importer/Supplier/Distributor information | |
| Manufacturer: | Hylomar Ltd. |
| Address: | Hylomar 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 | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 1 |
| | Sensitization, skin | Category 1 |
| | Specific target organ toxicity, single exposure | Category 3 respiratory tract irritation |
| OSHA defined hazards | Not classified. | |
| Label elements | | |



| | |
|--|---|
| Signal word | Danger |
| Hazard statement | Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. |
| Precautionary statement | |
| Prevention | Avoid breathing vapors. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. |
| Response | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Wash contaminated clothing before reuse. |
| Storage | Store in a well-ventilated place. Keep container tightly closed. Store locked up. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information | None. |

3. Composition/information on ingredients

Mixtures

| Chemical name | CAS number | % |
|--|-------------|----------|
| Ethoxylated Bisphenol A Dimethacrylate | 24448-20-2 | 60 - <70 |
| Hexylene glycol | 107-41-5 | 5 - <10 |
| Silica, amorphous, fumed | 112945-52-5 | 1 - 5 |
| 1-(2-Hydroxyethyl) piperazine | 103-76-4 | 1 - <3 |
| Cumene hydroperoxide | 80-15-9 | 1 - <3 |

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

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| 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 skin irritation or rash occurs: Get medical advice/attention. Get medical attention immediately. |
| Eye contact | Flush eyes thoroughly with water for at least 15 minutes. Remove any contact lenses. Get medical attention immediately. |
| Ingestion | Rinse mouth thoroughly. Drink a few glasses of water or milk. Get medical attention if any discomfort continues. Get medical attention immediately. |
| Most important symptoms/effects, acute and delayed | Irritation of eyes and mucous membranes. May cause an allergic skin reaction. Rash. In high concentrations, vapors may be irritating to the respiratory system. Exposed individuals may experience eye tearing, redness, and discomfort. |
| 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

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| 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. |
| 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

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| Personal precautions, protective equipment and emergency procedures | Keep upwind. Ventilate closed spaces before entering. Avoid inhalation of vapors and contact with skin and eyes. Wear protective clothing as described in Section 8 of this SDS. |
| Methods and materials for containment and cleaning up | Ventilate the area. Scrape up the spilled material. Transfer to a container for disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. |
| Environmental precautions | Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS. 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

Wear protective clothing as described in Section 8 of this safety data sheet. Use only outdoors or in a well-ventilated area. Avoid inhalation of vapors and contact with skin and eyes. 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. Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

US. OSHA Table Z-3 (29 CFR 1910.1000)

| Components | Type | Value |
|---|------|-----------|
| Silica, amorphous, fumed (CAS 112945-52-5) | TWA | 0.8 mg/m3 |
| | | 20 mppcf |

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|--------------------------------|---------|--------|
| Hexylene glycol (CAS 107-41-5) | Ceiling | 25 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|---|---------|-----------|
| Hexylene glycol (CAS 107-41-5) | Ceiling | 125 mg/m3 |
| | | 25 ppm |
| Silica, amorphous, fumed (CAS 112945-52-5) | TWA | 6 mg/m3 |

US. Workplace Environmental Exposure Level (WEEL) Guides

| Components | Type | Value |
|---------------------------------------|------|---------|
| Cumene hydroperoxide (CAS 80-15-9) | TWA | 6 mg/m3 |
| | | 1 ppm |

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Follow standard monitoring procedures.

US WEEL Guides: Skin designation

Cumene hydroperoxide (CAS 80-15-9)

Can be absorbed through the skin.

Appropriate engineering controls

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust and vapors. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

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.

Skin protection

Other

Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection

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

Wear appropriate thermal protective clothing, when necessary.

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

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|---|-------------------------------|
| Appearance | Paste. |
| Physical state | Liquid. |
| Form | Paste. |
| Color | White. |
| Odor | Faint odor. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not available. |
| Flash point | > 212.0 °F (> 100.0 °C) |
| 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. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Vapor density | > 1 (25 °C / 77 °F) (Air = 1) |
| Relative density | 1.19 (25 °C / 77 °F) |
| Solubility(ies) | |
| Solubility (water) | Slightly soluble in water. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | 20000 mPa·s (25 °C / 77 °F) |
| Other information | |
| Explosive limit | Not applicable. |
| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |

10. Stability and reactivity

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|---|---|
| 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 | None under normal conditions. |
| Incompatible materials | Strong oxidizing agents. Reducing agents. |
| Hazardous decomposition products | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

11. Toxicological information

Information on likely routes of exposure

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|---------------------|---|
| Inhalation | In high concentrations, vapors may irritate throat and respiratory system and cause coughing. |
| Skin contact | Causes skin irritation. May cause an allergic skin reaction. |
| Eye contact | Causes serious eye damage. |
| Ingestion | Ingestion may cause irritation and malaise. |

Symptoms related to the physical, chemical and toxicological characteristics Irritation of eyes and mucous membranes. Skin irritation. May cause an allergic skin reaction. Rash. In high concentrations, vapors may be irritating to the respiratory system. Exposed individuals may experience eye tearing, redness, and discomfort.

Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

| Components | Species | Test Results |
|------------------------------------|---------|------------------|
| Cumene hydroperoxide (CAS 80-15-9) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rat | 500 mg/kg |
| <i>Inhalation</i> | | |
| LC50 | Rat | 220 ppm, 4 hours |
| <i>Oral</i> | | |
| LD50 | Rat | 800 mg/kg |

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization No data available.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity No data available.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Silica, amorphous, fumed (CAS 112945-52-5) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Reproductive toxicity No data available.

Specific target organ toxicity - single exposure In high concentrations, vapors may irritate throat and respiratory system and cause coughing.

Specific target organ toxicity - repeated exposure No data available.

Aspiration hazard Due to the physical form of the product it is not an aspiration hazard.

Chronic effects None known.

Further information No other specific acute or chronic health impact noted.

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.

| Components | Species | Test Results |
|--------------------------------------|---|--------------------|
| Cumene hydroperoxide (CAS 80-15-9) | | |
| Aquatic | | |
| Crustacea | EC50 Daphnia | 7 mg/l, 24 hours |
| Fish | LC50 Fish | 3.9 mg/l, 96 hours |
| Persistence and degradability | No data available. | |
| Bioaccumulative potential | No data available. | |
| Mobility in soil | No data available. | |
| Mobility in general | The product is slightly soluble in water. | |
| Other adverse effects | None known. | |

13. Disposal considerations

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|--|--|
| 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 | Not regulated. |
| 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

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|---|-----------------------------------|
| DOT | Not regulated as dangerous goods. |
| IATA | Not regulated as dangerous goods. |
| IMDG | Not regulated as dangerous goods. |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable. |

15. Regulatory information

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|-------------------------------|---|
| 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. |
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TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Cumene hydroperoxide (CAS 80-15-9) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

| | |
|--------------------------|---|
| Hazard categories | Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No |
|--------------------------|---|

SARA 302 Extremely hazardous substance

Not listed.

| | |
|--|-----|
| SARA 311/312 Hazardous chemical | Yes |
|--|-----|

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|----------------------|------------|----------|
| Cumene hydroperoxide | 80-15-9 | 1 - <3 |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

| | |
|---------------------------------------|----------------|
| Safe Drinking Water Act (SDWA) | Not regulated. |
|---------------------------------------|----------------|

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|-----------------------------|--|
| US state regulations | This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. |
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US. Massachusetts RTK - Substance List

Cumene hydroperoxide (CAS 80-15-9)
Hexylene glycol (CAS 107-41-5)
Silica, amorphous, fumed (CAS 112945-52-5)

US. New Jersey Worker and Community Right-to-Know Act

Cumene hydroperoxide (CAS 80-15-9)
 Hexylene glycol (CAS 107-41-5)

US. Pennsylvania Worker and Community Right-to-Know Law

Cumene hydroperoxide (CAS 80-15-9)
 Hexylene glycol (CAS 107-41-5)
 Silica, amorphous, fumed (CAS 112945-52-5)

US. Rhode Island RTK

Cumene hydroperoxide (CAS 80-15-9)

US. California Proposition 65

Not Listed.

International Inventories

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

*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).

16. Other information, including date of preparation or last revision

| | |
|----------------------------|---|
| Issue date | 29-October-2015 |
| Revision date | - |
| Version # | 01 |
| Further information | HMIS® is a registered trade and service mark of the NPCA. |
| HMIS® ratings | Health: 3 Flammability: 1 Physical hazard: 0 |

List of abbreviations

| | |
|-------------------|--|
| References | ACGIH EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices |
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Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.