



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Hylomar Advanced Formulation / Hylomar Advanced Formulation HV / Hylomar Advanced Form Ultra HV

**Other means of identification**  
**SDS number** 5

**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** Not classified.

**OSHA defined hazards** Not classified.

**Label elements**  
**Hazard symbol** None.  
**Signal word** None.  
**Hazard statement** The mixture does not meet the criteria for classification.  
**Precautionary statement**  
**Prevention** Use personal protective equipment as required.  
**Response** Get medical attention/advice if you feel unwell.  
**Storage** Store away from incompatible materials.  
**Disposal** Dispose of waste and residues in accordance with local authority requirements.

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

**Supplemental information** None.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	CAS number	%
Butane-1,4-diol	110-63-4	1 - 2
Ethylene glycol	107-21-1	1 - 2

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

<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Drink a few glasses of water or milk. Get medical attention if any discomfort continues.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water spray, foam, dry powder or carbon dioxide.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	By heating and fire, toxic vapors/gases may be formed.
<b>Special protective equipment and precautions for firefighters</b>	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.
<b>Fire fighting equipment/instructions</b>	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.
<b>General fire hazards</b>	The product is not flammable. Will burn if involved in a fire.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Avoid contact with skin and eyes. In case of spills, beware of slippery floors and surfaces. Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this safety data sheet.
<b>Methods and materials for containment and cleaning up</b>	Scrape up the spilled material. Transfer to a container for disposal. Following product recovery, flush area with water. For waste disposal, see Section 13 of the SDS.
<b>Environmental precautions</b>	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

<b>Precautions for safe handling</b>	Keep away from sources of ignition - No smoking. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Avoid prolonged exposure. Wash thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. Avoid release to the environment.
<b>Conditions for safe storage, including any incompatibilities</b>	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 a cool, dark place at temperatures between 5°C and 35°C.

## 8. Exposure controls/personal protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Provide adequate ventilation. Not likely, due to the form of the product.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	PVC or 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.
<b>Other</b>	Normal work clothing (long sleeved shirts and long pants) is recommended.

**Respiratory protection** Under normal conditions, respirator is not normally required. 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

**Physical state** Liquid.

**Form** Paste.

**Color** Blue.

**Odor** Almost odorless.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not applicable.

**Flash point** > 737.6 °F (> 392.0 °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** 2 (Air = 1) (20 °C/68 °F)

**Relative density** 1.18 (20 °C/68 °F)

### Solubility(ies)

**Solubility (water)** Not miscible.

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

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** 275000 cP (Hylomar Advanced Formulation) (25 °C/77 °F)  
1000000 cP (Hylomar Advanced Formulation HV) (25 °C/77 °F)  
1500000 cP (Hylomar Advanced Form Ultra HV) (25 °C/77 °F)

### Other information

**Explosive limit** Not available.

**Explosive properties** Not explosive.

**Oxidizing properties** Not oxidizing.

**VOC** 0 (Hylomar Test Method 1.1A Determination of Volatile Matter)

## 10. Stability and reactivity

**Reactivity** The product is stable and 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, flames and sparks. Avoid temperatures exceeding the flash point.

**Incompatible materials** Strong oxidizing agents. Strong alkalis.  
**Hazardous decomposition products** No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** Under normal conditions of intended use, this material is not expected to be an inhalation hazard.  
**Skin contact** No adverse effects due to skin contact are expected.  
**Eye contact** May cause eye irritation on direct contact.  
**Ingestion** Ingestion may cause irritation and malaise.

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

**Acute toxicity** May cause discomfort if swallowed.

Product	Species	Test Results
Hylomar Advanced Formulation / Hylomar Advanced Formulation HV / Hylomar Advanced Form Ultra HV (CAS Mixture)		
<b>Acute</b>		
<b>Dermal</b>		
ATE		> 5000 mg/kg
<b>Inhalation</b>		
ATE		> 5 mg/l
<b>Oral</b>		
ATE		> 5000 mg/kg

Components	Species	Test Results
Ethylene glycol (CAS 107-21-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Mouse	> 3500 mg/kg
<b>Inhalation</b>		
<i>Aerosol</i>		
LC50	Rat	> 2.5 mg/l, 6 Hours
<b>Oral</b>		
LD50	Rat	7712 mg/kg

**Skin corrosion/irritation** No adverse effects due to skin contact are expected.

**Serious eye damage/eye irritation** May cause eye irritation on direct contact.

### Respiratory or skin sensitization

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

**Skin sensitization** 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.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### NTP Report on Carcinogens

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

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

**Specific target organ toxicity - single exposure** Based on available data, the classification criteria are not met.

**Specific target organ toxicity - repeated exposure** Based on available data, the classification criteria are not met.

<b>Aspiration hazard</b>	Due to the physical form of the product it is not an aspiration hazard.
<b>Chronic effects</b>	None known.
<b>Further information</b>	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.

Product	Species	Test Results
Hylomar Advanced Formulation / Hylomar Advanced Formulation HV / Hylomar Advanced Form Ultra HV (CAS Mixture)		
<i>Acute</i>	ATE	> 100 mg/l
<i>Chronic</i>	ATE	> 100 mg/l

Components	Species	Test Results
Ethylene glycol (CAS 107-21-1)		
<b>Aquatic</b>		
Algae	IC50	Pseudokirchneriella subcapitata 10940 mg/l, 96 hours
Crustacea	EC50	Daphnia magna > 100 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 72860 mg/l, 96 hours

**Persistence and degradability** There are no data on the degradability of this product.

**Bioaccumulative potential** No data available.

**Partition coefficient n-octanol / water (log Kow)**  
Ethylene glycol (CAS 107-21-1) -1.36

**Mobility in soil** No data available.

**Mobility in general** The product is insoluble in water.

**Other adverse effects** None known.

## 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.

**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**  
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

**US federal regulations** This product is not known to be 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.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Ethylene glycol (CAS 107-21-1) Listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**Toxic Substances Control Act (TSCA)****Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Ethylene glycol	107-21-1	1 - 2

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Ethylene glycol (CAS 107-21-1)

**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****US. Massachusetts RTK - Substance List**

Ethylene glycol (CAS 107-21-1)

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

Ethylene glycol (CAS 107-21-1)

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

Ethylene glycol (CAS 107-21-1)

**US. Rhode Island RTK**

Ethylene glycol (CAS 107-21-1)

**California Proposition 65****WARNING:** This product can expose you to Ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).**California Proposition 65 - CRT: Listed date/Developmental toxin**

Ethylene glycol (CAS 107-21-1) Listed: June 19, 2015

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

Ethylene glycol (CAS 107-21-1)

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

**Issue date** 18-June-2015  
**Revision date** 15-November-2019  
**Version #** 03  
**HMIS® ratings** Health: 1  
 Flammability: 1  
 Physical hazard: 0

**NFPA ratings**

**List of abbreviations**

LD50: Lethal Dose, 50%.  
LC50: Lethal Concentration, 50%.  
NOEC: No observed effect concentration.  
TWA: Time weighted average.  
STEL: Short term exposure limit.  
IATA: International Air Transport Association.  
IMDG: International Maritime Dangerous Goods.  
MARPOL: International Convention for the Prevention of Pollution from Ships.

**References**

ECHA CHEM  
HSDB® - Hazardous Substances Data Bank  
Registry of Toxic Effects of Chemical Substances (RTECS)

**Disclaimer**

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

**This SDS contains revisions in the following section(s):**

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