



SAFETY DATA SHEET

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

Product identifier

Trade name or designation of the mixture HYLOGRIP HY5174
Registration number -
Synonyms None.
SDS number 10
Date of first issue 12-January-2012
Version number 01
Revision date -
Supersedes date -

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

Identified uses Flexible Gasket Compound.
Uses advised against None known.

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
Emergency telephone: 1-760-476-3961
Access code: 333544

Section 2: Hazards identification

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 Xi;R36, R43

The full text for all R-phrases is displayed in section 16.

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

Health hazards

Skin corrosion/irritation	Category 2	Causes skin irritation.
Serious eye damage/eye irritation	Category 2	Causes serious eye irritation.
Skin sensitisation	Category 1	May cause an allergic skin reaction.

Hazard summary

Physical hazards Not classified for physical hazards.
Health hazards Irritating to eyes. May cause sensitisation by skin contact.
Environmental hazards Not classified for hazards to the environment.
Specific hazards Irritating to eyes. May cause allergic skin reaction.
Main symptoms Irritation of eyes and mucous membranes. Exposed may experience eye tearing, redness, and discomfort. Skin irritation. May cause allergic skin reaction. Rash. In high concentrations, vapours may be irritating to the respiratory system.

Label elements

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

Contains: 2-Hydroxyethyl methacrylate, 2-Hydroxypropyl methacrylate



Signal word	Warning
Hazard statements	Causes serious eye irritation. May cause an allergic skin reaction. Causes skin irritation.
Precautionary statements	
Prevention	Avoid breathing fume/mist/vapors/spray. Wear protective gloves and eye/face protection. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	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. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental label information	None.
Other hazards	In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

Section 3: Composition/information on ingredients

Mixture

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
2-Hydroxypropyl methacrylate	10 - 20	27813-02-1 248-666-3	-	-	
Classification:	DSD: Xi;R36, R43				
	CLP: Skin Sens. 1;H317, Eye Irrit. 2;H319				
2-Hydroxyethyl methacrylate	1 - 5	868-77-9 212-782-2	-	607-124-00-X	
Classification:	DSD: Xi;R36/38, R43				
	CLP: Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319				
Cumene hydroperoxide	0.1 - 1	80-15-9 201-254-7	-	617-002-00-8	
Classification:	DSD: O;R7, T;R23, C;R34, Xn;R21/22-48/20/22, N;R51/53				
	CLP: Org. Perox. EF;H242, Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1B;H314, Acute Tox. 3;H331, STOT SE 3;H335, STOT RE 2;H373, Aquatic Chronic 2;H411				

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

CLP: Regulation No. 1272/2008.

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

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.

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.

Special hazards arising from the substance or mixture By heating and fire, toxic vapours/gases may be formed.

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 firefighting 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

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep upwind. Ventilate closed spaces before entering. Avoid inhalation of vapours/spray and contact with skin and eyes. Keep unnecessary personnel away. 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.

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

Methods and material for containment and cleaning up Ventilate the area. In case of spills, beware of slippery floors and surfaces. Wipe up with absorbent material (e.g. cloth, fleece). Transfer to a container for disposal. Following product recovery, flush area with water.

Reference to other sections For personal protection, see section 8. For waste disposal, see section 13.

Section 7: Handling and storage

Precautions for safe handling Keep away from sources of ignition - No smoking. 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. Use only outdoors or in a well-ventilated area. Avoid inhalation of vapours/mist and contact with skin and eyes.

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.

Specific end use(s) Flexible Gasket Compound.

Section 8: Exposure controls/personal protection

Control parameters

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

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

Recommended monitoring procedures Follow standard monitoring procedures.

DNEL Not available.

PNEC Not available.

Exposure controls

Appropriate engineering controls Provide adequate ventilation.

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 Wear safety glasses with side shields (or goggles).

Skin protection

- Hand protection Wear protective gloves. Viton or nitrile 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	Under normal conditions, respirator is not normally required. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment.
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

Information on basic physical and chemical properties

Appearance	Paste. Orange.
Physical state	Liquid.
Form	Paste.
Colour	Orange.
Odour	Slight. Pungent.
Odour threshold	Not available.
pH	4 - 6
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not available.
Flash point	> 100 °C (> 212 °F) (COC/DIN/ISO 2592)
Auto-ignition temperature	Not available.
Flammability (solid, gas)	Not applicable.
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Oxidising properties	Not available.
Explosive properties	Not applicable.
Explosive limit	Not available.
Vapour pressure	Not available.
Vapour density	< 0.5 (20 °C) (Air = 1)
Evaporation rate	Not available.
Relative density	1 - 1.1 (20 °C) (Water = 1)
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	110000 mPa-s (20 °C)
Percent volatile	Not available.
Other information	No relevant additional information available.

Section 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.
Incompatible materials	Strong oxidising agents. Reducing Agents. Metals. Metal salts. Radical initiators.
Hazardous decomposition products	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.
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Information on likely routes of exposure

Ingestion	Ingestion may cause irritation and malaise.
Inhalation	In high concentrations, vapours may irritate throat and respiratory system and cause coughing.
Skin contact	Causes skin irritation. May cause sensitisation by skin contact.
Eye contact	Causes serious eye irritation.

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

Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

Components

Test results

2-Hydroxypropyl methacrylate (27813-02-1)	Acute Oral LD50 Rat: 11200 mg/kg
Cumene hydroperoxide (80-15-9)	Acute Dermal LD50 Rat: 500 mg/kg Acute Inhalation LC50 Rat: 220 ppm 4 hours Acute Oral LD50 Rat: 800 mg/kg
2-Hydroxyethyl methacrylate (868-77-9)	Acute Dermal LD50 Rabbit: >= 3000 mg/kg Acute Oral LD50 Rat: 5050 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory sensitisation No data available.

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity No data available.

Carcinogenicity No data available.

Reproductive toxicity No data available.

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

Specific target organ toxicity - repeated exposure No data available.

Aspiration hazard No data available.

Mixture versus substance information No data available.

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

Section 12: Ecological information

Toxicity

Components

Test results

Cumene hydroperoxide (80-15-9)	EC50 Daphnia: 7 mg/l 24 hours LC50 Fish: 3.9 mg/l 96 hours
2-Hydroxyethyl methacrylate (868-77-9)	LC50 Fathead minnow (<i>Pimephales promelas</i>): 213 - 242 mg/l 96 hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility The product is insoluble in water.

Environmental fate - Partition coefficient Not available.

Mobility in soil Not available.

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

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

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

The product is not covered by international regulation on the transport of dangerous goods.

RID

The product is not covered by international regulation on the transport of dangerous goods.

ADN

The product is not covered by international regulation on the transport of dangerous goods.

IATA

The product is not covered by international regulation on the transport of dangerous goods.

IMDG

The product is not covered by international regulation on the transport of dangerous goods.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Not listed.

Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registry (EPER)

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List

Not listed.

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 allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

Chemical safety assessment

No Chemical Safety Assessment has been carried out.

Section 16: Other information

List of abbreviations

DSD: Directive 67/548/EEC.
 CLP: Regulation No. 1272/2008.
 DNEL: Derived No-Effect Level.
 PNEC: Predicted No-Effect Concentration.
 PBT: Persistent, bioaccumulative and toxic.
 vPvB: Very Persistent and very Bioaccumulative.

References

HSDB® - Hazardous Substances Data Bank

Information on evaluation method leading to the classification of mixture
Full text of any statements or R-phrases and H-phrases under Sections 2 to 15

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.

R7 May cause fire.
R21/22 Harmful in contact with skin and if swallowed.
R23 Toxic by inhalation.
R34 Causes burns.
R36 Irritating to eyes.
R36/38 Irritating to eyes and skin.
R43 May cause sensitisation by skin contact.
R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
H242 - Heating may cause a fire.
H302 - Harmful if swallowed.
H312 - Harmful in contact with skin.
H314 - Causes severe skin burns and eye damage.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H331 - Toxic if inhaled.
H335 - May cause respiratory irritation.
H373 - May cause damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

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.

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