YLOMAR

SAFETY DATA SHEET

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

Product identifier

Trade name or designation

HYLOGRIP HY2143

of the mixture

Registration number

Synonyms None SDS number 15

Date of first issue 22March-2012

Version number 01 **Revision date** Supersedes date

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

Identified uses Thread Locking Adhesive.

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 **Technical Department** Contact person:

1-760-476-3961 **Emergency telephone:**

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

This preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

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 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 skin irritation. May cause allergic skin reaction.

Main symptoms Irritation of eyes and mucous membranes. Exposed may experience eye tearing, redness, and

discomfort. May cause redness and pain. Rash. In high concentrations, vapours may be irritating

to the respiratory system.

Label elements

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

(1-Methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bismethacrylate, 2'-Phenylacetoh Contains:

ydrazide, 2-Hydroxyethyl methacrylate

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Signal word Warning

Hazard statements May cause an allergic skin reaction.

Precautionary statements

Prevention Avoid breathing vapours. Wear protective gloves and eye/face protection. Contaminated work

clothing should not be allowed out of the workplace.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical Response

advice/attention. Wash contaminated clothing before reuse.

Storage Store away from incompatible materials.

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

Supplemental label information

Other hazards May cause skin irritation. 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**

24448-20-2 (1-Methylethylidene)bis(4,1-phenyle 50 - 70246-263-7

neoxy-2,1-ethanediyl) bismethacrylate **DSD:** R43

Classification:

CLP: Skin Sens. 1;H317

Di-"isononyl" phthalate 28553-12-0 # 10 - 30

249-079-5

Classification: DSD: -

CLP: -

2-Hydroxyethyl methacrylate 1 - < 10 607-124-00-X 868-77-9

212-782-2

Classification: **DSD:** Xi;R36/38, R43

Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319

Cumene hydroperoxide 80-15-9 617-002-00-8 < 1

201-254-7

Classification: **DSD:** O;R7, T;R23, C;R34, Xn;R21/22-48/20/22, N;R51/53

> Org. Perox. E;H242, Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1B;H314, Acute Tox. CI P:

3;H331, STOT RE 2;H373, Aquatic Chronic 2;H411

2'-Phenylacetohydrazide < 0.2 114-83-0

204-055-3

Classification: **DSD:** Xn;R20/21/22, Xi;R36/37/38, R43

CLP: Acute Tox. 3;H301, Acute Tox. 4;H312, Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319,

Acute Tox. 4;H332, STOT SE 3;H335

Hydroquinone < 0.1 123-31-9 604-005-00-4

204-617-8

Classification: DSD: Carc. Cat. 3;R40, Muta. Cat. 3;R68, Xn;R22, Xi;R41, R43, N;R50

> Acute Tox. 4;H302, Skin Sens. 1;H317, Eye Dam. 1;H318, Muta. 2;H341, Carc. 2;H351, Aquatic CLP:

Acute 1;H400

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^{#:} 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.

Eve 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. May cause redness and pain. 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.

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. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. 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

Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking. Avoid inhalation of vapours/spray and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. 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.

Specific end use(s) Thread Locking Adhesive.

Section 8: Exposure controls/personal protection

Control parameters

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Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value	
Di-"isononyl" phthalate (28553-12-0)	TWA	5 mg/m3	
Hydroquinone (123-31-9)	TWA	0.5 mg/m3	

Recommended monitoring

Biological limit values

No biological exposure limits noted for the ingredient(s). Follow standard monitoring procedures.

procedures

DNEL

Components	Type	Route	Value	Form
2-Hydroxyethyl methacrylate (868-77-9)	Workers	Dermal	1.3 mg/kg/day	Long term Systemic effects
		Inhalation	4.9 mg/m3	Long term Systemic effects
Cumene hydroperoxide (80-15-9)	Workers	Inhalation	6 mg/m3	Long term Systemic effects
Hydroquinone (123-31-9)	Workers	Dermal	128 mg/kg/day	Long term Systemic effects
		Inhalation	7 mg/m3	Long term Systemic effects
		Inhalation	1 mg/m3	Long term Local effects
EC				

PNE

Components	Туре	Route	Value
2-Hydroxyethyl methacrylate (868-77-9)	Aqua (freshwater)	Water	0.482 mg/l
	Aqua (intermittent releases)	Water	1 mg/l
	Aqua (marine water)	Water	0.482 mg/l
	Sediment (freshwater	n) Not applicable	3.79 mg/kg
	Sediment (marine water)	Not applicable	3.79 mg/kg
	Sewage Treatment Plant	Not applicable	10 mg/l
	Soil	Soil	0.476 mg/kg
Cumene hydroperoxide (80-15-9)	Aqua (freshwater)	Water	0.0012 mg/l
	Aqua (intermittent releases)	Water	0.012 mg/l
	Aqua (marine water)	Water	0.0001 mg/l
	Sediment (freshwater	n) Not applicable	0.253 mg/kg
	Sediment (marine water)	Not applicable	0.0253 mg/kg
	Sewage Treatment Plant	Not applicable	0.35 mg/l
	Soil	Soil	0.056 mg/kg
Hydroquinone (123-31-9)	Aqua (freshwater)	Water	0.114 μg/l
	Aqua (intermittent releases)	Water	1.34 μg/l
	Aqua (marine water)	Water	0.0114 μg/l
	Sediment (freshwater	n) Not applicable	0.98 μg/kg
	Sediment (marine water)	Not applicable	0.097 μg/kg
	Sewage Treatment Plant	Not applicable	0.71 mg/l
	Soil	Soil	0.129 μg/kg

Exposure controls

Appropriate engineering Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of controls inhalation of dust and 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 Wear safety glasses with side shields (or goggles).

Skin protection

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- 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

Dark blue. Liquid. **Appearance**

Physical state Liquid. **Form** Liquid. Colour Dark blue. Ester-like. Odour **Odour threshold** Not available. Not available. Not available.

Melting point/freezing

Boiling point, initial boiling

point, and boiling range

Not available.

102 °C (215.6 °F) Flash point Not available. **Auto-ignition temperature** Flammability (solid, gas) Not applicable. Flammability limit - lower Not available.

(%)

Flammability limit - upper

(%)

Not available.

Not available. Oxidising properties **Explosive properties** Not applicable. **Explosive limit** Not applicable. Vapour pressure > 0.1 kPa (25 °C) Vapour density > 1 (Air = 1)**Evaporation rate** Not available.

Relative density 1.05 (25 °C) (Water = 1)

Slight Solubility (water)

Not available. **Partition coefficient**

(n-octanol/water)

Decomposition temperature

Not available.

Viscosity 3000 mPa·s (25 °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

products

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat, flames and sparks.

Incompatible materials Strong oxidising agents. Reducing Agents. Radical initiators.

Hazardous decomposition

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

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Section 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

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 May cause skin irritation. May cause sensitisation by skin contact.

Eye contact Irritating to eyes.

Symptoms Irritation of eyes and mucous membranes. Exposed may experience eye tearing, redness, and

discomfort. May cause redness and pain. 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'-Phenylacetohydrazide (114-83-0)	Acute Oral LD50 Mouse: 270 mg/kg
Hydroquinone (123-31-9)	Acute Dermal LD50 Cat: 5970 mg/kg
	Acute Oral LD50 Rat: 320 mg/kg
Di-"isononyl" phthalate (28553-12-0)	Acute Dermal LD50 Rabbit: > 3160 mg/kg
	Acute Dermal LD50 Rabbit: > 3.16 g/kg
	Acute Inhalation LC50 Rat: > 4.4 mg/l 4 Hours
	Acute Oral LD50 Rat: > 40000 mg/kg
	Acute Oral LD50 Rat: > 10 g/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

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye

irritation

Irritating to eyes.

Respiratory sensitisation No data available.

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydroquinone (CAS 123-31-9) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity No data available.

Specific target organ

toxicity - single exposure

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

Acute Oral LD50 Rat: 5050 mg/kg

Specific target organ

toxicity - repeated

exposure

No data available.

Aspiration hazard No data available.

Mixture versus substance No data available.

information

Other information

No other specific acute or chronic health impact noted.

Section 12: Ecological information

Toxicity

Components	Test results
Hydroquinone (123-31-9)	EC50 Algae (Selenastrum capricornotum): 0.3 mg/l 72 hours
	EC50 Daphnia magna: 0.3 mg/l 48 hours
	EC50 Water flea (Daphnia magna): 0.12 - 0.15 mg/l 48 hours
	LC50 Zebrafish (Danio rerio): 0.11 - 0.64 mg/l 96 hours
Di-"isononyl" phthalate (28553-12-0)	EC50 Water flea (Daphnia magna): > 0.06 mg/l 48 hours
	LC50 Fathead minnow (Pimephales promelas): > 0.1 mg/l 96 hours

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Components **Test results**

Cumene hydroperoxide (80-15-9) EC50 Daphnia: 7 mg/l 24 hours

LC50 Fish: 3.9 mg/l 96 hours

LC50 Fathead minnow (Pimephales promelas): 213 - 242 mg/l 2-Hydroxyethyl methacrylate (868-77-9)

96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility

The product is slightly soluble 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

EU waste code

Empty containers should be taken to an approved waste handling site for recycling or disposal. 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

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

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

Not applicable.

the IBC Code

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

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

Not listed.

HYLOGRIP HY2143 SDS UK 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 Registery (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.

Additional information is given in the Safety Data Sheet.

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.
HSDB® - Hazardous Substances Data Bank

Information on evaluation

References

method leading to the classification of mixture

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.

Full text of any statements or R-phrases and H-phrases

R7 May cause fire.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R21/22 Harmful in contact with skin and if swallowed.

R22 Harmful if swallowed. R23 Toxic by inhalation. R34 Causes burns. R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R40 Limited evidence of a carcinogenic effect.

R41 Risk of serious damage to eyes.

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.

R50 Very toxic to aquatic organisms.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R68 Possible risk of irreversible effects.

H242 - Heating may cause a fire.

H301 - Toxic if swallowed.

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. H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

H331 - Toxic if inhaled.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation. H341 - Suspected of causing genetic defects.

H351 - Suspected of causing cancer.

H373 - May cause damage to organs through prolonged or repeated exposure.

H400 - Very toxic to aquatic life.

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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