# HYLOMAR\*

#### SAFETY DATA SHEET

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

Hylobond 5101 Adhesive

of the mixture

Registration number -

Synonyms None.
SDS number 32

Issue date 23-September-2015

Version number 03

Revision date 18-February-2019 Supersedes date 23-August-2018

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

**Identified uses** Structural adhesive.

**Uses advised against** Use in accordance with supplier's recommendations.

1.3. 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

1.4. Emergency telephone +1-760-476-3961 (US)

number

Access code: 333544

#### **SECTION 2: Hazards identification**

#### 2.1. 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 Regulation (EC) No 1272/2008 as amended

Physical hazards

Flammable liquids Category 2 H225 - Highly flammable liquid and

vapour.

Health hazards

Skin corrosion/irritation Category 1A H314 - Causes severe skin burns

and eye damage.

Serious eye damage/eye irritation Category 1 H318 - Causes serious eye

damage.

Skin sensitisation Category 1 H317 - May cause an allergic skin

reaction.

Specific target organ toxicity - single Category 3 respiratory tract irritation H335 - May cause respiratory

irritation.

Environmental hazards

exposure

Hazardous to the aquatic environment, Category 2 H411 - Toxic to aquatic life with

long-term aquatic hazard long lasting effects.

May be ignited by heat, sparks or flames. Causes severe skin burns and eye damage. May cause

an allergic skin reaction. May cause irritation to the respiratory system. Dangerous for the

environment if discharged into watercourses.

#### 2.2. Label elements

**Hazard summary** 

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

Contains: Dibenzoyl peroxide, Dibutyl maleate, Methacrylic acid, Methyl methacrylate,

Propylidynetrimethanol, ethoxylated, esters with acrylic acid, Rosin

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#### **Hazard pictograms**



Signal word Danger

**Hazard statements** 

H411 Toxic to aquatic life with long lasting effects.

H225 Highly flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H318 Causes serious eye damage.

**Precautionary statements** 

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P260 Do not breathe vapour.

P273 Avoid release to the environment.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

Storage None.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **General information**

Chemical name	%	CAS-No. / EC No	. REACH Registration No.	Index No.	Notes
Methyl methacrylate	25 - 50	80-62-6 201-297-1	01-2119452498-28-XXXX	607-035-00-6	#
Classification: F	Flam. Liq. 2;H225, Skin	Irrit. 2;H315, Skin S	Sens. 1;H317, STOT SE 3;H3	35	D
Methacrylic acid	<= 10	79-41-4 201-204-4	01-2119463884-26-XXXX	607-088-00-5	
	Acute Tox. 4;H302, Acu Tox. 4;H332, STOT SE		n Corr. 1A;H314, Eye Dam. 1	;H318, Acute	D
Dipropylene glycol dibenzo	ate <= 10	27138-31-4 248-258-5	01-2119529241-49-XXXX	-	
Classification:	Aquatic Chronic 3;H412	2			
Hexan-6-olide	<= 3	502-44-3 207-938-1	-	-	
Classification:	Eye Irrit. 2;H319				
Dibenzoyl peroxide	<= 2.4	94-36-0 202-327-6	01-2119511472-50-XXXX	617-008-00-0	
	Org. Perox. B;H241, Sk I;H400(M=10), Aquatio		ye Irrit. 2;H319, Aquatic Acute =10)	;	
Dibutyl maleate	< 1	105-76-0 203-328-4	-	-	
Classification:	Skin Sens. 1;H317, ST	OT RE 2;H373, Aqu	atic Acute 1;H400		
Propylidynetrimethanol, eth esters with acrylic acid	oxylated, < 1	28961-43-5 500-066-5	-	-	
Classification:	Skin Sens. 1;H317, Eye	e Irrit. 2;H319			
Rosin	< 1	8050-09-7 232-475-7	-	650-015-00-7	
Classification:	Skin Sens. 1;H317				

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% Chemical name CAS-No. / EC No. REACH Registration No. **Notes** Index No.

trizinc bis(orthophosphate)

Classification:

7779-90-0

01-2119485044-40-XXXX 030-011-00-6

231-944-3

<= 0.3

Aquatic Acute 1;H400, Aquatic Chronic 1;H410

List of abbreviations and symbols that may be used above

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

Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words "non-stabilised".

**Composition comments** 

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Components not listed are either non-hazardous or are below reportable limits. The full text for all H-statements is displayed in section 16.

#### **SECTION 4: First aid measures**

**General information** 

Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

centre or doctor/physician if you feel unwell.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. If skin irritation or

rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Ingestion

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.

Rinse mouth thoroughly. Get medical attention if any discomfort occurs.

4.2. Most important symptoms and effects, both acute and

delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Sensitisation.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

#### **SECTION 5: Firefighting measures**

General fire hazards

Highly flammable liquid and vapour.

5.1. Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture

Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ventilate closed spaces before entering them. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not breathe vapour. Avoid contact with eyes, skin, and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained.

For emergency responders

Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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#### 6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapours. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Persons susceptible to allergic reactions should not handle this product.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

7.3. Specific end use(s)

Structural adhesive.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Occupational exposure limits

LIK FH40 Workplace Exposure Limits (WFLs)

Components	Type	Value	Form
Dibenzoyl peroxide (CAS 94-36-0)	TWA	5 mg/m3	
Methacrylic acid (CAS 79-41-4)	STEL	143 mg/m3	
		40 ppm	
	TWA	72 mg/m3	
		20 ppm	
Methyl methacrylate (CAS 80-62-6)	STEL	416 mg/m3	
		100 ppm	
	TWA	208 mg/m3	
		50 ppm	
Rosin (CAS 8050-09-7)	STEL	0.15 mg/m3	Fume.
	TWA	0.05 mg/m3	Fume.
EU. Indicative Exposure Limit Val	ues in Directives 91/322/EEC.	2000/39/EC. 2006/15/EC. 2009	/161/EU. 2017/164/EU
Components	Type	Value	

### Methyl methacrylate (CAS **STEL**

100 ppm 80-62-6) **TWA** 50 ppm

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

procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

#### **General Population**

Components	Value	Assessment factor	Notes
Dibenzoyl peroxide (CAS 94-36-0)			
Long-term, Systemic, Oral	2 mg/kg bw/day	100	Repeated dose toxicity

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Dipropylene glycol dibenzoate (CAS 27138-3	1-4)		
Long-term, Systemic, Dermal	0.22 mg/kg bw/day	460	Repeated dose toxicity
Long-term, Systemic, Inhalation	8.69 mg/m3	115	Repeated dose toxicity
Long-term, Systemic, Oral	5 mg/kg bw/day	200	Repeated dose toxicity
Methacrylic acid (CAS 79-41-4)			
Long-term, Local, Inhalation	6.55 mg/m3	53.7	
Long-term, Systemic, Dermal	2.55 mg/kg bw/day	138	respiratory tract irritation
Long-term, Systemic, Inhalation	6.3 mg/m3	56	respiratory tract irritation
Short-term, Local, Dermal	1 %	1	Skin irritation/corrosion
Methyl methacrylate (CAS 80-62-6)			
Long-term, Systemic, Dermal	8.2 mg/kg bw/day	20	Repeated dose toxicity
Long-term, Systemic, Inhalation Short-term, Local, Dermal	74.3 mg/m3 1.5 mg/cm2	28 10	Repeated dose toxicity Skin Sensitisation
Short-term, Local, Inhalation	104 mg/m3	2	Repeated dose toxicity
trizinc bis(orthophosphate) (CAS 7779-90-0)		_	repeated door to menty
Long-term, Systemic, Dermal	83 mg/kg bw/day	1	Repeated dose toxicity
Long-term, Systemic, Inhalation	2.5 mg/m3	1	Repeated dose toxicity
Long-term, Systemic, Oral	0.83 mg/kg bw/day	1	Repeated dose toxicity
Workers			·
Components	Value	Assessment factor	Notes
Dibenzoyl peroxide (CAS 94-36-0)			
Long-term, Local, Dermal	34 μg/cm2	5	Skin irritation/corrosion
Long-term, Systemic, Dermal	13.3 mg/kg bw/day	87.5	Repeated dose toxicity
Long-term, Systemic, Inhalation	39 mg/m3	12.5	Repeated dose toxicity
Dipropylene glycol dibenzoate (CAS 27138-3	1-4)		
Long-term, Systemic, Dermal	10 mg/kg bw/day	100	Repeated dose toxicity
Long-term, Systemic, Inhalation	8.8 mg/m3	114	Repeated dose toxicity
Methacrylic acid (CAS 79-41-4)			
Long-term, Local, Inhalation	88 mg/m3	4	
Long-term, Systemic, Dermal	4.25 mg/kg bw/day	82.8	respiratory tract irritation
Long-term, Systemic, Inhalation	29.6 mg/m3	11.9	respiratory tract irritation
Methyl methacrylate (CAS 80-62-6)			
Long-term, Systemic, Dermal	13.67 mg/kg bw/day	12	Repeated dose toxicity
Long-term, Systemic, Inhalation	208 mg/m3	1	Repeated dose toxicity
Short-term, Local, Dermal	1.5 mg/cm2	10 1	Skin sensitisation
Short-term, Local, Inhalation	208 mg/m3	ı	Repeated dose toxicity
trizinc bis(orthophosphate) (CAS 7779-90-0)	00	4	B
Long-term, Systemic, Dermal Long-term, Systemic, Inhalation	83 mg/kg bw/day 5 mg/m3	1 1	Repeated dose toxicity Repeated dose toxicity
•	5 mg/ms	ı	Repeated dose toxicity
edicted no effect concentrations (PNECs)	Walne	A	Nata
Components	Value	Assessment factor	Notes
Dibenzoyl peroxide (CAS 94-36-0)	0.00	50	
Freshwater Marine water	0.02 μg/l 0.002 μg/l	50 500	
Sediment (freshwater)	0.002 μg/i 0.013 mg/kg	500	
Sediment (marine water)	0.001 mg/kg		
Soil	0.003 mg/kg		
STP	0.35 mg/l	100	
Dipropylene glycol dibenzoate (CAS 27138-3	1-4)		
Freshwater	3.7 μg/l	1000	
Marine water	0.37 μg/l	10000	
Secondary poisoning	333 mg/kg	30	Oral
Sediment (freshwater)	1.49 mg/kg		
Sediment (marine water) Soil	0.149 mg/kg 1 mg/kg	1000	
STP	10 mg/l	10	
Methacrylic acid (CAS 79-41-4)	<del>-</del>		
Freshwater	0.82 mg/l	10	
Intermittent releases		- <del>-</del>	
	0.82 mg/l		
Marine water	0.82 mg/l	10	
Soil	0.82 mg/l 1.2 mg/kg		
	0.82 mg/l	10 10	

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#### Methyl methacrylate (CAS 80-62-6)

monty montacificate (c) to co co		
Freshwater	0.94 mg/l	10
Intermittent releases	0.94 mg/l	
Marine water	0.94 mg/l	10
Sediment (freshwater)	5.74 mg/kg	
Soil	1.47 mg/kg	
STP	10 mg/l	10
trizinc bis(orthophosphate) (CAS 7779-90-0)		
Freshwater	20.6 μg/l	1
Marine water	6.1 µg/l	1
Sediment (freshwater)	117.8 mg/kg	1
Sediment (marine water)	56.5 mg/kg	1

# STP 8.2. Exposure controls

Soil

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

#### Individual protection measures, such as personal protective equipment

**General information** Use personal protective equipment as required. Personal protection 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) and a face shield. Eye protection should meet

standard EN 166.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Wear

suitable gloves tested to EN374.

- Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** Chemical respirator with organic vapour cartridge and full facepiece.

35.6 mg/kg

100 µg/l

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

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. Contaminated work clothing should not be allowed out of the

workplace.

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to

acceptable levels.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state Liquid.
Form Liquid.
Colour White.

Odour Strong. Acrylic.
Odour threshold Not available.
pH Not applicable.
Melting point/freezing point Not available.
Initial boiling point and boiling Not available.

range

Flash point 12.0 °C (53.6 °F) Closed cup

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

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Flammability limit - upper

(%)

Not available.

Not available. Vapour pressure Vapour density Not available. 0.96 - 1.02 Relative density

Insoluble in water. Solubility(ies) Not available. **Partition coefficient** 

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available.

> 0.4 cm<sup>2</sup>/s Kinematic. **Viscosity** 

20 °C (68 °F) Viscosity temperature **Explosive properties** Not explosive. **Oxidising properties** Not oxidising.

9.2. Other information No relevant additional information available.

#### **SECTION 10: Stability and reactivity**

The product is stable and non-reactive under normal conditions of use, storage and transport. 10.1. Reactivity

10.2. Chemical stability Material is stable under normal conditions. Hazardous polymerization may occur. 10.3. Possibility of hazardous

reactions

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials. Protect against direct

sunlight.

10.5. Incompatible materials Strong oxidising agents. Alkali metals. Peroxides. Strong oxidizers, strong acids, and strong

bases.

10.6. Hazardous

10.4. Conditions to avoid

decomposition products

LC50

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.

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns. May cause an allergic skin reaction.

Eye contact Causes serious eye damage. Ingestion May cause discomfort if swallowed.

**Symptoms** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may

include stinging, tearing, redness, swelling, and blurred vision. Sensitisation. Permanent eye

29.8 mg/l, 4 Hours

damage including blindness could result. May cause respiratory irritation.

#### 11.1. Information on toxicological effects

Not expected to be acutely toxic. Acute toxicity

Components	Species	Test Results
Methacrylic acid (CAS 79-4	1-4)	
<b>Acute</b>		
Dermal		
LD50	Rabbit	500 - 1000 mg/kg
Inhalation		
LC50	Rat	7.1 mg/l, 4 Hours
Oral		
LD50	Rat	1320 mg/kg
Methyl methacrylate (CAS 8	30-62-6)	
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
Inhalation		
Vapour		

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Rat

Components Species Test Results

Propylidynetrimethanol, ethoxylated, esters with acrylic acid (CAS 28961-43-5)

<u>Acute</u>

**Dermal** 

LD50 Rabbit > 13200 mg/kg

Oral

LD50 Rat > 2000 mg/kg

Rosin (CAS 8050-09-7)

**Acute** 

Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Oral

LD50 Rat > 2000 mg/kg

Skin corrosion/irritation Causes severe skin burns.

Serious eye damage/eye Causes serious eye damage.

irritation

**Respiratory sensitisation**Due to partial or complete lack of data the classification is not possible.

**Skin sensitisation** May cause an allergic skin reaction.

Germ cell mutagenicity

Due to partial or complete lack of data the classification is not possible.

Carcinogenicity

Due to partial or complete lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

Dibenzoyl peroxide (CAS 94-36-0)

Methyl methacrylate (CAS 80-62-6)

3 Not classifiable as to carcinogenicity to humans.

3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity**Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Fish

Due to partial or complete lack of data the classification is not possible.

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

Mixture versus substance

information

The product is a mixture.

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

#### **SECTION 12: Ecological information**

**12.1. Toxicity** Toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Dibenzoyl peroxide (CAS 94	1-36-0)		
Aquatic			
Acute			
Algae	LC50	Pseudokirchnerella subcapitata	0.0711 mg/l, 72 hours
Fish	EC50	Oncorhynchus mykiss	0.0602 mg/l, 96 hours
Methacrylic acid (CAS 79-4	1-4)		
Aquatic			
Acute			
Algae	EbC50	Pseudokirchnerella subcapitata	20 mg/l, 72 hours
Chronic			
Algae	NOEC	Pseudokirchnerella subcapitata	8.2 mg/l, 72 hours
Methyl methacrylate (CAS 8	80-62-6)		
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	69 mg/l, 48 hours
Chronic			

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Zebrafish

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**NOEC** 

9.4 mg/l, 35 days

Components Species Test Results

Propylidynetrimethanol, ethoxylated, esters with acrylic acid (CAS 28961-43-5)

Aquatic

Acute

Fish LC50 Fish 1.95 mg/l, 96 hours

Chronic

Algae EC50 Desmodesmus subspicatus 2.2 mg/l, 72 hours

Rosin (CAS 8050-09-7)

Aquatic

Acute

Crustacea EC50 Daphnia magna 1.6 mg/l

12.2. Persistence and

No data is available on the degradability of this product.

degradability

assessment

12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log Kow)

 Dibenzoyl peroxide (CAS 94-36-0)
 3.46

 Hexan-6-olide (CAS 502-44-3)
 1.215

 Methacrylic acid (CAS 79-41-4)
 0.93

 Methyl methacrylate (CAS 80-62-6)
 1.38

Bioconcentration factor (BCF) Not available.

**12.4. Mobility in soil** The product is insoluble in water.

12.5. Results of PBT and vPvB

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII. Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects None known.

#### **SECTION 13: Disposal considerations**

13.1. Waste treatment methods

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

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

disposal.

EU waste code 08 04 09\*

The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

**Disposal methods/information** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

**Special precautions**Dispose in accordance with all applicable regulations.

#### **SECTION 14: Transport information**

ADR

**14.1. UN number** UN1133

14.2. UN proper shipping ADHESIVES containing flammable liquid

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Hazard No. (ADR) 30
Tunnel restriction code D/E
14.4. Packing group III
14.5. Environmental hazards Yes

**14.6. Special precautions** Read safety instructions, SDS and emergency procedures before handling.

for user

RID

**14.1. UN number** UN1133

14.2. UN proper shipping ADHESIVES containing flammable liquid

name

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14.3. Transport hazard class(es)

Class Subsidiary risk 3 Label(s) Ш 14.4. Packing group 14.5. Environmental hazards Yes

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

**ADN** 

14.1. UN number **UN1133** 

14.2. UN proper shipping ADHESIVES containing flammable liquid

14.3. Transport hazard class(es)

3 Class Subsidiary risk 3 Label(s) 14.4. Packing group Ш 14.5. Environmental hazards Yes

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

**IATA** 

14.1. UN number UN1133

14.2. UN proper shipping Adhesives containing flammable liquid

name

14.3. Transport hazard class(es)

Class 3 Subsidiary risk Ш 14.4. Packing group 14.5. Environmental hazards Yes **ERG Code** 3L

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

**IMDG** 

14.1. UN number **UN1133** 

14.2. UN proper shipping ADHESIVES containing flammable liquid

Not established.

name

14.3. Transport hazard class(es)

Class 3 Subsidiary risk Ш 14.4. Packing group 14.5. Environmental hazards

Marine pollutant Yes **EmS** F-E, S-D

14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling. for user

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Code

#### **SECTION 15: Regulatory information**

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

#### **EU regulations**

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

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Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

trizinc bis(orthophosphate) (CAS 7779-90-0)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Methyl methacrylate (CAS 80-62-6)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

#### Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

Directive 2012/18/EU on major accident hazards involving dangerous substances: P5

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended

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, as amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

#### **SECTION 16: Other information**

#### List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

EC50: Effective Concentration, 50%.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG Code: International Maritime Dangerous Goods Code.

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

MARPOL: International Convention for the Prevention of Pollution from Ships.

NOEC: No observed effect concentration. PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short-Term Exposure Limit. STP: Sewage treatment plant. TWA: Time Weighted Average Value.

vPvB: Very Persistent and very Bioaccumulative.

HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity

Information on evaluation method leading to the classification of mixture

References

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. 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 H-statements not written out in full under Sections 2 to 15

H225 Highly flammable liquid and vapour.

H241 Heating may cause a fire or explosion.

H302 Harmful if swallowed. H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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

1, 2, 3, 8, 9, 11, 16.

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.

Hylobond 5101 Adhesive SDS UK