# SAFETY DATA SHEET



### 1. Identification

Product identifier	Hylobond 5101 Adhesive
Other means of identification SDS number	32
Recommended use	Structural adhesive.
Recommended restrictions	Use in accordance with supplier's recommendations.
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	Flammable liquids	Category 2
Health hazards	Skin corrosion/irritation	Category 1A
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	
Label elements		

#### Signal word Hazard statement

Precautionary statement Prevention Highly flammable liquid and vapor. Causes severe skin burns and eye damage. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Toxic to aquatic life with long lasting effects.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist/vapors. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing must not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Danger

Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately al contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medica advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.	
Storage	Store in a well-ventilated place. Keep container tightly closed. Keep cool. 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	%
Methyl methacrylate		80-62-6	25 - 50
Methacrylic acid		79-41-4	<= 10
Dipropylene glycol dibenzoate		27138-31-4	<= 10
Hexan-6-olide		502-44-3	<= 3
Dibenzoyl peroxide		94-36-0	<= 2.4
Dibutyl maleate		105-76-0	< 1
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	;	28961-43-5	< 1
Rosin		8050-09-7	< 1
trizinc bis(orthophosphate)		7779-90-0	<= 0.3
Composition comments	All concentrations are in percent by weight unle percent by volume. Components not listed are		
I. First-aid measures			
nhalation	Remove victim to fresh air and keep at rest in a center or doctor/physician if you feel unwell.	position comfortable for b	reathing. Call a poise
nhalation Skin contact		d wash skin with soap and	water. If skin irritatio
	center or doctor/physician if you feel unwell. Remove contaminated clothing immediately an	d wash skin with soap and h contaminated clothing be at least 15 minutes. Remov	water. If skin irritatio efore reuse. ve contact lenses, if
Skin contact	center or doctor/physician if you feel unwell. Remove contaminated clothing immediately an rash occurs: Get medical advice/attention. Was Immediately flush eyes with plenty of water for	d wash skin with soap and h contaminated clothing be at least 15 minutes. Remov son control center immedia	water. If skin irritatio efore reuse. ve contact lenses, if
Skin contact Eye contact	center or doctor/physician if you feel unwell. Remove contaminated clothing immediately an rash occurs: Get medical advice/attention. Was Immediately flush eyes with plenty of water for present and easy to do. Call a physician or pois	d wash skin with soap and sh contaminated clothing be at least 15 minutes. Removes son control center immedia if any discomfort occurs. e. Causes serious eye dam I blurred vision. Permanent	water. If skin irritatio efore reuse. ve contact lenses, if tely. agge. Symptoms may eye damage includi
Skin contact Eye contact Ingestion Most important Symptoms/effects, acute and	center or doctor/physician if you feel unwell. Remove contaminated clothing immediately an rash occurs: Get medical advice/attention. Was Immediately flush eyes with plenty of water for present and easy to do. Call a physician or pois Rinse mouth thoroughly. Get medical attention Burning pain and severe corrosive skin damage include stinging, tearing, redness, swelling, and	d wash skin with soap and sh contaminated clothing be at least 15 minutes. Removes on control center immedia if any discomfort occurs. e. Causes serious eye dam I blurred vision. Permanent kin reaction. May cause rest symptomatically. Thermal nich do not adhere to affect	water. If skin irritatio efore reuse. ve contact lenses, if tely. age. Symptoms may eye damage includi spiratory irritation. burns: Flush with wa ed area. Call an
Skin contact Eye contact Ingestion Most important ymptoms/effects, acute and lelayed Indication of immediate nedical attention and special reatment needed	center or doctor/physician if you feel unwell. Remove contaminated clothing immediately an rash occurs: Get medical advice/attention. Was Immediately flush eyes with plenty of water for present and easy to do. Call a physician or pois Rinse mouth thoroughly. Get medical attention Burning pain and severe corrosive skin damage include stinging, tearing, redness, swelling, and blindness could result. May cause an allergic sl Provide general supportive measures and treat immediately. While flushing, remove clothes wh ambulance. Continue flushing during transport	d wash skin with soap and sh contaminated clothing be at least 15 minutes. Removes son control center immedia if any discomfort occurs. e. Causes serious eye dam d blurred vision. Permanent kin reaction. May cause res symptomatically. Thermal nich do not adhere to affect to hospital. Keep victim und lf you feel unwell, seek me sonnel are aware of the ma	water. If skin irritatio efore reuse. ve contact lenses, if tely. agge. Symptoms may eye damage includi spiratory irritation. burns: Flush with wa ed area. Call an der observation. edical advice (show t terial(s) involved, an
kin contact ye contact ngestion lost important ymptoms/effects, acute and elayed ndication of immediate nedical attention and special reatment needed General information	center or doctor/physician if you feel unwell. Remove contaminated clothing immediately an rash occurs: Get medical advice/attention. Was Immediately flush eyes with plenty of water for present and easy to do. Call a physician or pois Rinse mouth thoroughly. Get medical attention Burning pain and severe corrosive skin damage include stinging, tearing, redness, swelling, and blindness could result. May cause an allergic sl Provide general supportive measures and treat immediately. While flushing, remove clothes wh ambulance. Continue flushing during transport Symptoms may be delayed. Take off all contaminated clothing immediately. label where possible). Ensure that medical per	d wash skin with soap and sh contaminated clothing be at least 15 minutes. Removes son control center immedia if any discomfort occurs. e. Causes serious eye dam d blurred vision. Permanent kin reaction. May cause res symptomatically. Thermal nich do not adhere to affect to hospital. Keep victim und lf you feel unwell, seek me sonnel are aware of the ma	water. If skin irritatio efore reuse. ve contact lenses, if tely. agge. Symptoms may eye damage includi spiratory irritation. burns: Flush with wa ed area. Call an der observation. edical advice (show t terial(s) involved, an
Skin contact Eye contact Ingestion Most important ymptoms/effects, acute and lelayed Indication of immediate nedical attention and special	center or doctor/physician if you feel unwell. Remove contaminated clothing immediately an rash occurs: Get medical advice/attention. Was Immediately flush eyes with plenty of water for present and easy to do. Call a physician or pois Rinse mouth thoroughly. Get medical attention Burning pain and severe corrosive skin damage include stinging, tearing, redness, swelling, and blindness could result. May cause an allergic sl Provide general supportive measures and treat immediately. While flushing, remove clothes wh ambulance. Continue flushing during transport Symptoms may be delayed. Take off all contaminated clothing immediately. label where possible). Ensure that medical per	d wash skin with soap and sh contaminated clothing be at least 15 minutes. Removes son control center immedia if any discomfort occurs. e. Causes serious eye dam blurred vision. Permanent kin reaction. May cause res symptomatically. Thermal hich do not adhere to affect to hospital. Keep victim und lf you feel unwell, seek me sonnel are aware of the ma contaminated clothing befor	water. If skin irritatio efore reuse. ve contact lenses, if tely. agge. Symptoms may eye damage includi spiratory irritation. burns: Flush with wa ed area. Call an der observation. edical advice (show t iterial(s) involved, an re reuse.
Skin contact Eye contact Ingestion Most important ymptoms/effects, acute and lelayed Indication of immediate medical attention and special reatment needed Seneral information 5. Fire-fighting measures	center or doctor/physician if you feel unwell. Remove contaminated clothing immediately an rash occurs: Get medical advice/attention. Was Immediately flush eyes with plenty of water for present and easy to do. Call a physician or pois Rinse mouth thoroughly. Get medical attention Burning pain and severe corrosive skin damage include stinging, tearing, redness, swelling, and blindness could result. May cause an allergic sl Provide general supportive measures and treat immediately. While flushing, remove clothes wh ambulance. Continue flushing during transport Symptoms may be delayed. Take off all contaminated clothing immediately. label where possible). Ensure that medical person take precautions to protect themselves. Wash of	d wash skin with soap and sh contaminated clothing be at least 15 minutes. Removes son control center immedia if any discomfort occurs. e. Causes serious eye dam I blurred vision. Permanent kin reaction. May cause res symptomatically. Thermal nich do not adhere to affect to hospital. Keep victim und lf you feel unwell, seek me sonnel are aware of the ma contaminated clothing befor	water. If skin irritatio efore reuse. ve contact lenses, if tely. agge. Symptoms may eye damage includi spiratory irritation. burns: Flush with wa ed area. Call an der observation. edical advice (show t iterial(s) involved, an re reuse.

Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	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.
General fire hazards	Highly flammable liquid and vapor.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	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 vapor. Avoid contact with eyes, skin, and clothing. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section

8 of the SDS. Methods and materials for containment and cleaning up drains. 8 of the SDS. 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.

Environmental precautions Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. 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.

# 7. Handling and storage

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. Persons susceptible to allergic reactions should not handle this product. Do not breathe mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	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. Store locked up. Store in tightly closed container. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Dibenzoyl peroxide (CAS 94-36-0)	PEL	5 mg/m3	
Methyl methacrylate (CAS 80-62-6)	PEL	410 mg/m3	
		100 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	
Dibenzoyl peroxide (CAS 94-36-0)	TWA	5 mg/m3	
Methacrylic acid (CAS 79-41-4)	TWA	20 ppm	
Methyl methacrylate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	

US. NIOSH: Pocket Guide t Components	o Chemical Hazards Type	Value	
Dibenzoyl peroxide (CAS 94-36-0)	TWA	5 mg/m3	
Methacrylic acid (CAS 79-41-4)	TWA	70 mg/m3	
		20 ppm	
Methyl methacrylate (CAS 80-62-6)	TWA	410 mg/m3	
		100 ppm	
Rosin (CAS 8050-09-7)	TWA	0.1 mg/m3	
Biological limit values	No biological exposure limits r	noted for the ingredient(s).	
Exposure guidelines			
US - California OELs: Skin	designation		
Methacrylic acid (CAS 7 US - Tennessee OELs: Ski		Can be absorbed through the skin.	
Methacrylic acid (CAS 7 US. NIOSH: Pocket Guide 1		Can be absorbed through the skin.	
Methacrylic acid (CAS 7	9-41-4)	Can be absorbed through the skin.	
Appropriate engineering controls	Ventilation rates should be ma exhaust ventilation, or other e exposure limits. If exposure lir	ocal exhaust ventilation. Good general ventilation should be used. atched to conditions. If applicable, use process enclosures, local engineering controls to maintain airborne levels below recommended mits have not been established, maintain airborne levels to an wash station and safety shower.	
Individual protection measures	s, such as personal protective e	equipment	
Eye/face protection	Wear safety glasses with side	shields (or goggles) and a face shield.	
Skin protection			
Hand protection		sistant gloves. Suitable gloves can be recommended by the glove uid may penetrate the gloves. Frequent change is advisable.	
Skin protection			
Other	Wear appropriate chemical re	Wear appropriate chemical resistant clothing. Use of an impervious apron 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 pro-	tective clothing, when necessary.	
General hygiene considerations	and before eating, drinking, ar	al hygiene measures, such as washing after handling the material nd/or smoking. Routinely wash work clothing and protective inants. Contaminated work clothing should not be allowed out of the	

## 9. Physical and chemical properties

Appearance Liquid. **Physical state** Form Liquid. White. Color Odor Strong. Acrylic. Not available. Odor threshold рΗ Not applicable. Melting point/freezing point Not available. Initial boiling point and boiling Not available. range 53.6 °F (12.0 °C) Closed Cup Flash point **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.		
Vapor pressure	Not available.		
Vapor density	Not available.		
Relative density	0.96 - 1.02		
Solubility(ies)			
Solubility (water)	Insoluble in water.		
Partition coefficient (n-octanol/water)	Not available.		
Auto-ignition temperature	Not available.		
Decomposition temperature	Not available.		
Viscosity	> 0.4 cm²/s Kinematic.		
Viscosity temperature	68 °F (20 °C)		
Other information			
Explosive properties	Not explosive.		
Oxidizing properties	Not oxidizing.		
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.		

Hazardous polymerization may occur.

sunlight.

11. Toxicological information
Information on likely routes of exposure

Possibility of hazardous

Conditions to avoid

Incompatible materials Hazardous decomposition

reactions

products

mormation on interview 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 related to the physical, chemical and toxicological characteristics	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 an allergic skin reaction. May cause respiratory irritation.	

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

Strong oxidizing agents. Alkali metals. Peroxides. Strong oxidizers, strong acids, and strong bases.

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

#### Information on toxicological effects

Acute toxicity	•	
Components		
Methacrylic acid (CAS 79-4	41-4)	
Acute		
Dermal		
LD50	Rabbit	500 - 1000 mg/kg
Inhalation		
LC50	Rat	7.1 mg/l, 4 Hours
Oral		
LD50	Rat	1320 mg/kg

Components	Species	Test Results	
Methyl methacrylate (CAS 80-62-6	)		
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 5000 mg/kg, 24 Hours	
Inhalation			
Vapor			
LC50	Rat	29.8 mg/l, 4 Hours	
Propylidynetrimethanol, ethoxylate	d, esters with acrylic acid (CAS	28961-43-5)	
Acute			
Dermal	Debbit		
LD50	Rabbit	> 13200 mg/kg	
Oral	D.(		
LD50	Rat	> 2000 mg/kg	
Rosin (CAS 8050-09-7)			
<u>Acute</u>			
<b>Dermal</b> LD50	Rat	> 2000 mg/kg, 24 Hours	
	ιναι	~ 2000 mg/ky, 24 Mulis	
<b>Oral</b> LD50	Rat	> 2000 mg/kg	
		2000 mg/kg	
Skin corrosion/irritation	Causes severe skin burns.		
Serious eye damage/eye irritation	Causes serious eye damage.		
Respiratory or skin sensitization	1		
ACGIH sensitization			
METHYL METHACRYLA ROSIN CORE SOLDER T PRODUCTS (COLOPHO	THERMAL DECOMPOSITION	Dermal sensitization Dermal sensitization	
		Respiratory sensitization	
Respiratory sensitization		classification criteria are not met.	
Skin sensitization	May cause an allergic skin rea		
Germ cell mutagenicity	No data available to indicate p mutagenic or genotoxic.	product or any components present at greater than 0.1% are	
Carcinogenicity	Not classifiable as to carcinog	enicity to humans.	
IARC Monographs. Overall E	Evaluation of Carcinogenicity		
Dibenzoyl peroxide (CAS Methyl methacrylate (CAS NTP Report on Carcinogens	S 80-62-6)	<ul><li>3 Not classifiable as to carcinogenicity to humans.</li><li>3 Not classifiable as to carcinogenicity to humans.</li></ul>	
Not listed. OSHA Specifically Regulate Not listed.	d Substances (29 CFR 1910.1)	001-1053)	
Reproductive toxicity	This product is not expected to	o cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause respiratory irritation	n.	
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful.		
Further information	No other specific acute or chro	onic health impact noted.	
12. Ecological information	I		
Ecotoxicity	Toxic to aquatic life with long l	asting effects.	

Components		Species	Test Results	
Dibenzoyl peroxide (CAS 94	4-36-0)			
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	30-62-6)			
Aquatic				
Acute				
Crustacea	EC50	Daphnia magna	69 mg/l, 48 hours	
Chronic				
Fish	NOEC	Zebrafish	9.4 mg/l, 35 days	
	oxylated, este	rs with acrylic acid (CAS 28961-43-5)		
Aquatic				
Acute	1.050			
Fish	LC50	Fish	1.95 mg/l, 96 hours	
Chronic	5050	5		
Algae	EC50	Desmodesmus subspicatus	2.2 mg/l, 72 hours	
Rosin (CAS 8050-09-7)				
Aquatic				
Acute	F.050	Dophaia magaa	1.6 mg/l	
Crustacea	EC50	Daphnia magna	1.6 mg/l	
sistence and degradability	No data is	available on the degradability of this prod	uct.	
accumulative potential				
Partition coefficient n-oct	•	•		
Dibenzoyl peroxide (CAS 94 Hexan-6-olide (CAS 502-44		3.46 1.215		
Methacrylic acid (CAS 79-4		0.93		
Methyl methacrylate (CAS 8		1.38		
bility in soil	The produ	ict is insoluble in water.		
er adverse effects	None know	wn.		
Disposal considerati	ons			
posal instructions	material u containers ponds, wa	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. 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.		
al disposal regulations		accordance with all applicable regulation	-	
ardous waste code	The waste	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
ste from residues / unused ducts	Dispose o	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.

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

products

# 14. Transport information

пот

DOT			
UN number	UN1133		
UN proper shipping name	Adhesives, containing a flammable liquid		
Transport hazard class(es)			
Class	3		
Subsidiary risk	-		
Label(s)	3		
Packing group			
Environmental hazards			
Marine pollutant	Yes		
Special precautions for user	<ul> <li>Read safety instructions, SDS and emergency procedures before handling.</li> </ul>		
Special provisions	B1, B52, IB3, T2, TP1		
Packaging exceptions	150		
Packaging non bulk	173		
Packaging bulk	242		
ΙΑΤΑ			
UN number	UN1133		
UN proper shipping name	Adhesives containing flammable liquid		
Transport hazard class(es)			
Class	3		
Subsidiary risk	-		
Packing group			
Environmental hazards	Yes		
ERG Code	3L		
	r Read safety instructions, SDS and emergency procedures before handling.		
IMDG			
UN number	UN1133		
UN proper shipping name	ADHESIVES containing flammable liquid		
Transport hazard class(es)			
Class Subsidiant risk	3		
Subsidiary risk Packing group			
Environmental hazards			
Marine pollutant	Yes		
EmS	F-E. S-D		
	r Read safety instructions, SDS and emergency procedures before handling.		
Transport in bulk according to Annex II of MARPOL 73/78 and	Not applicable.		
the IBC Code			
15. Regulatory information	1		
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.		
TSCA Section 12(b) Exp	port Notification (40 CFR 707, Subpt. D)		
Not regulated.			
CERCLA Hazardous Su	bstance List (40 CFR 302.4)		
Methyl methacrylate trizinc bis(orthophosp SARA 304 Emergency r	bhate) (CAS 7779-90-0) Listed.		
Not regulated.			
OSHA Specifically Regu	Ilated Substances (29 CFR 1910.1001-1053)		
Not listed.			
Toxic Substances Control A	Act (TSCA) One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".		

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazaro chemical	<b>lous</b> Yes		
Classified hazard categories	Skin corrosion of Serious eye dam Respiratory or sl	age or eye irritation	
SARA 313 (TRI report Chemical name	ing)	CAS number	% by wt.
Dibenzoyl peroxid	e	94-36-0	<= 2.4
Methyl methacryla	te	80-62-6	25 - 50
Other federal regulations	Section 112 Hazardous /	Air Pollutants (HAPs) List	
Methyl methacryla	te (CAS 80-62-6)	l Release Prevention (40 C	FR 68.130)
Safe Drinking Water A (SDWA)	Act Not regulated.		
FEMA Priority Su	bstances Respiratory H	ealth and Safety in the Flav	vor Manufacturing Workplace
Methyl metha	crylate (CAS 80-62-6)	Low priority	
US state regulations			
US. Massachusetts R			
Dibenzoyl peroxid Methacrylic acid (0 Methyl methacryla	CAS 79-41-4) te (CAS 80-62-6)		
-	er and Community Righ	t-to-Know Act	
	CAS 79-41-4)		
Dibenzoyl peroxid Methacrylic acid (0 Methyl methacryla Rosin (CAS 8050- trizinc bis(orthophe	e (CAS 94-36-0) CAS 79-41-4) te (CAS 80-62-6) 09-7) osphate) (CAS 7779-90-0	-	
US. Rhode Island RTI Dibenzoyl peroxid Methacrylic acid (0 Methyl methacryla Rosin (CAS 8050-	e (CAS 94-36-0) CAS 79-41-4) te (CAS 80-62-6)		
California Proposition	n 65		
WARNIN		ose you to Sulfuric acid, which rmation go to www.P65Wari	ch is known to the State of California to cause nings.ca.gov.
Sulfuric acid ( US. California. Ca subd. (a))	CAS 7664-93-9)	ate/Carcinogenic substanc Listed: March . Safer Consumer Products	
16. Other information	n, including date of	preparation or last rev	vision
Issue date	19-April-2020		
Revision date	-		
Version #	01		
Further information		stered trade and service mar	k of the NPCA.
HMIS® ratings	Health: 3 Flammability: 3 Physical hazard:		
Hylobord 5101 Adbosivo		~	200



List of abbreviations	<ul> <li>DOT: Department of Transportation (49 CFR 172.101).</li> <li>IATA: International Air Transport Association.</li> <li>IMDG Code: International Maritime Dangerous Goods Code.</li> <li>MARPOL: International Convention for the Prevention of Pollution from Ships.</li> <li>STEL: Short-Term Exposure Limit.</li> <li>LD50: Lethal Dose, 50%.</li> <li>LC50: Lethal Concentration, 50%.</li> <li>EC50: Effective Concentration, 50%.</li> <li>NOEC: No observed effect concentration.</li> </ul>
References	ACGIH HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available.