

## SAFETY DATA SHEET Permabond UV6231

SECTION 1: Identification of	the substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product name	Permabond UV6231	
1.2. Relevant identified uses	of the substance or mixture and uses advised against	
Identified uses	Adhesive.	
1.3. Details of the supplier of	f the safety data sheet	
Supplier	Permabond Engineering Adhesives Ltd.	
	Wessex Way	
	Colden Common	
	Winchester	
	Hampshire. SO21 1WP	
	United Kingdom	
	Tel: +44 (0)1962 711 661	
	Fax: +44 (0)1962 711 662	
	info.europe@permabond.com	
1.4. Emergency telephone n	umber	
Emergency telephone	UK +44 (0)1962 711 661 USA 0800 640 7599 Asia +86 (0)21 5773 4913	
SECTION 2: Hazards identification		
2.1. Classification of the sub	stance or mixture	
Classification (EC 1272/2008	8)	
Physical hazards	Not Classified	

Physical hazarus	NULCIASSIIIEU
Health hazards	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335
Environmental hazards	Aquatic Chronic 2 - H411

Classification (67/548/EEC or Xi;R36/37/38. R43. R52/53. 1999/45/EC)

2.2. Label elements

#### Pictogram



Signal word

Hazard statements

¥2

Danger

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.

# Permabond UV6231

Precautionary statements	<ul> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P302+P352a IF ON SKIN: Wash with plenty of soap and water</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P308+P313 IF exposed or concerned: Get medical advice/ attention.</li> </ul>
Contains	ISOBORNYL ACRYLATE, 2-HYDROXYETHYL METHACRYLATE, METHACRYLIC ACID, MALEIC ACID
Supplementary precautionary statements	<ul> <li>P264 Wash contaminated skin thoroughly after handling.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>P362+P364 Take off contaminated clothing and wash it before reuse.</li> <li>P391 Collect spillage.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P501 Dispose of contents/container in accordance with existing Community, National and local regulations.</li> </ul>

# 2.3. Other hazards

None under normal conditions.

SECTION 3: Composition/information on ingredients				
3.2. Mixtures				
ISOBORNYL ACRYLATE				10-30%
CAS number: 5888-33-5	FC number 227 FG	1.6		10 00 /0
CAS humber: 5666-55-5	EC number: 227-561-6			
M factor (Acute) = 1	M factor (Chronic) =	1		
Classification		Classification (67/5	48/EEC or 1000/45/EC)	
Skin Irrit, 2 - H315		•	48/EEC or 1999/45/EC)	
		Xi;R36/37/38. N;R5	01/55.	
Eye Irrit. 2 - H319				
Skin Sens. 1 - H317				
STOT SE 3 - H335				
Aquatic Acute 1 - H400				
Aquatic Chronic 1 - H410				
2-HYDROXYETHYL METHACRYLATE				5-10%
CAS number: 868-77-9	EC number: 212-782	2-2	REACH registration number: 01-	-
			2119490169-29-XXXX	
Classification		Classification (67/5	48/EEC or 1999/45/EC)	
Eye Irrit. 2 - H319		R43 Xi;R36/38	· · · · · · · · · · · · · · · · · · ·	
Skin Sens. 1 - H317		- ,		

METHACRYLIC ACID		1-5%
CAS number: 79-41-4	EC number: 201-204-4	REACH registration number: 01- 2119463884-26-XXXX
Classification	Classificatio	on (67/548/EEC or 1999/45/EC)
Acute Tox. 4 - H302	C;R35 Xn;F	-
Acute Tox. 3 - H311		
Acute Tox. 4 - H332		
Skin Corr. 1A - H314		
Eye Dam. 1 - H318		
STOT SE 3 - H335		
MALEIC ACID		1-5%
CAS number: 110-16-7	EC number: 203-742-5	REACH registration number: 01-
		2119488705-25-XXXX
Classification	Olaasifiaati	n (87/5/9/EEC or 1000/45/EC)
Acute Tox, 4 - H302		o <b>n (67/548/EEC or 1999/45/EC)</b> R36/37/38 R43
Acute Tox. 4 - H312		30/37/30 R43
Skin Irrit. 2 - H315		
Eye Dam. 1 - H318		
Skin Sens. 1 - H317		
STOT SE 3 - H335		
DIPHENYL(2,4,6-TRIMETHY	LBENZOYL)PHOSPHINE	1-<3%
OXIDE		
OXIDE CAS number: 75980-60-8	EC number: 278-355-8	
CAS number: 75980-60-8		
CAS number: 75980-60-8	Classificatio	on (67/548/EEC or 1999/45/EC)
CAS number: 75980-60-8 Classification Skin Sens. 1B - H317	Classificatio	on <b>(67/548/EEC or 1999/45/EC)</b> 3;R62. N;R51/53.
CAS number: 75980-60-8 Classification Skin Sens. 1B - H317 Repr. 2 - H361f	Classificatio	
CAS number: 75980-60-8 Classification Skin Sens. 1B - H317 Repr. 2 - H361f Aquatic Chronic 2 - H411	Classificatio	3;R62. N;R51/53.
CAS number: 75980-60-8 Classification Skin Sens. 1B - H317 Repr. 2 - H361f Aquatic Chronic 2 - H411	<b>Classificatio</b> Repr. Cat. 3 s and Hazard Statements are Displayed in Se	3;R62. N;R51/53.
CAS number: 75980-60-8 Classification Skin Sens. 1B - H317 Repr. 2 - H361f Aquatic Chronic 2 - H411 The Full Text for all R-Phrases	Classification Repr. Cat. 3 is and Hazard Statements are Displayed in Se is	3;R62. N;R51/53.
CAS number: 75980-60-8 Classification Skin Sens. 1B - H317 Repr. 2 - H361f Aquatic Chronic 2 - H411 The Full Text for all R-Phrases SECTION 4: First aid measure	Classification Repr. Cat. 3 as and Hazard Statements are Displayed in Se asures	3;R62. N;R51/53.
CAS number: 75980-60-8 <b>Classification</b> Skin Sens. 1B - H317 Repr. 2 - H361f Aquatic Chronic 2 - H411 The Full Text for all R-Phrases <b>SECTION 4: First aid measure</b> <b>4.1. Description of first aid measure</b>	Classification Repr. Cat. 3 s and Hazard Statements are Displayed in Se as asures Move the exposed person to fresh air. Get n Never give anything by mouth to an uncons	3;R62. N;R51/53. ction 16.
CAS number: 75980-60-8 <b>Classification</b> Skin Sens. 1B - H317 Repr. 2 - H361f Aquatic Chronic 2 - H411 The Full Text for all R-Phrases <b>SECTION 4: First aid measure</b> <b>4.1. Description of first aid measure</b> <b>Inhalation</b>	Classification Repr. Cat. 3 s and Hazard Statements are Displayed in Second asures Move the exposed person to fresh air. Get n Never give anything by mouth to an uncons Give plenty of water to drink. Do not induce	R62. N;R51/53. ction 16. medical attention if any discomfort continues. cious person. Rinse mouth thoroughly with water. vomiting. Get medical attention immediately.
CAS number: 75980-60-8 Classification Skin Sens. 1B - H317 Repr. 2 - H361f Aquatic Chronic 2 - H411 The Full Text for all R-Phrases SECTION 4: First aid measure 4.1. Description of first aid measure Inhalation Ingestion	Classification Repr. Cat. 3 as and Hazard Statements are Displayed in Second asures Move the exposed person to fresh air. Get in Never give anything by mouth to an uncons Give plenty of water to drink. Do not induce Remove contaminated clothing immediately attention promptly if symptoms occur after v Remove any contact lenses and open eyeli	R62. N;R51/53. ction 16. medical attention if any discomfort continues. cious person. Rinse mouth thoroughly with water. vomiting. Get medical attention immediately.
CAS number: 75980-60-8 Classification Skin Sens. 1B - H317 Repr. 2 - H361f Aquatic Chronic 2 - H411 The Full Text for all R-Phrases SECTION 4: First aid measure 4.1. Description of first aid measure Inhalation Ingestion Skin contact Eye contact	Classification Repr. Cat. 3 as and Hazard Statements are Displayed in Second asures Move the exposed person to fresh air. Get in Never give anything by mouth to an uncons Give plenty of water to drink. Do not induce Remove contaminated clothing immediately attention promptly if symptoms occur after v Remove any contact lenses and open eyeli	R62. N;R51/53. ction 16. medical attention if any discomfort continues. cious person. Rinse mouth thoroughly with water. vomiting. Get medical attention immediately. v and wash skin with soap and water. Get medical vashing. ds wide apart. Promptly wash eyes with plenty of
CAS number: 75980-60-8 Classification Skin Sens. 1B - H317 Repr. 2 - H361f Aquatic Chronic 2 - H411 The Full Text for all R-Phrases SECTION 4: First aid measure 4.1. Description of first aid measure Inhalation Ingestion Skin contact Eye contact	Classification Repr. Cat. 3 as and Hazard Statements are Displayed in Sec. as asures Move the exposed person to fresh air. Get of Never give anything by mouth to an uncons Give plenty of water to drink. Do not induce Remove contaminated clothing immediately attention promptly if symptoms occur after of Remove any contact lenses and open eyeli water while lifting the eye lids. Continue to response	R62. N;R51/53. ction 16. medical attention if any discomfort continues. cious person. Rinse mouth thoroughly with water. vomiting. Get medical attention immediately. v and wash skin with soap and water. Get medical vashing. ds wide apart. Promptly wash eyes with plenty of
CAS number: 75980-60-8 Classification Skin Sens. 1B - H317 Repr. 2 - H361f Aquatic Chronic 2 - H411 The Full Text for all R-Phrases SECTION 4: First aid measure 4.1. Description of first aid measure Inhalation Ingestion Skin contact Eye contact 4.2. Most important symptoms	Classification Repr. Cat. 3 as and Hazard Statements are Displayed in Sec. as asures Move the exposed person to fresh air. Get in Never give anything by mouth to an uncons Give plenty of water to drink. Do not induce Remove contaminated clothing immediately attention promptly if symptoms occur after v Remove any contact lenses and open eyeli water while lifting the eye lids. Continue to r	Reference in the second

Eye contact	May cause serious eye damage.		
-			
4.3. Indication of any immediate medical attention and special treatment needed			
Notes for the doctor	No specific recommendations. Treat symptomatically.		
SECTION 5: Firefighting meas	sures		
5.1. Extinguishing media			
Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.		
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.		
5.2. Special hazards arising from	om the substance or mixture		
Hazardous combustion products	Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide, and unknown hydrocarbons.		
5.3. Advice for firefighters			
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.		
SECTION 6: Accidental release	e measures		
6.1. Personal precautions, pro	tective equipment and emergency procedures		
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.		
6.2. Environmental precaution	<u>s</u>		
Environmental precautions	Do not discharge into drains or watercourses or onto the ground.		
6.3. Methods and material for	containment and cleaning up		
Methods for cleaning up	Absorb spillage with sand or other inert absorbent. Transfer to suitable, labelled containers for disposal.		
6.4. Reference to other section	ns		
Reference to other sections	For personal protection, see Section 8. For waste disposal, see section 13.		
SECTION 7: Handling and sto	rage		
7.1. Precautions for safe hand	ling		
Usage precautions	Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product.		
7.2. Conditions for safe storag	e, including any incompatibilities		
Storage precautions	Store in closed original container at temperatures between 5°C and 25°C. Protect against direct sunlight. Never return unused material to storage receptacle.		
7.3. Specific end use(s)			
Specific end use(s)	Adhesive.		
SECTION 8: Exposure Contro	Is/personal protection		
8.1. Control parameters			
Occupational exposure limits			
METHACRYLIC ACID			
Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m³ Short-term exposure limit (15-minute): WEL 40 ppm 143 mg/m³ WEL = Workplace Exposure Limit			

### 8.2. Exposure controls

#### Protective equipment





Appropriate engineering controls	Provide adequate general and local exhaust ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	The following protection should be worn: Chemical splash goggles or face shield. Personal eye protection should conform to EN 166
Hand protection	Nitrile rubber or Viton <sup>™</sup> gloves are recommended. Cotton or other absorbent gloves should not be worn. Gloves should conform to EN 374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
Other skin and body protection	Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance.
Hygiene measures	Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. Use of good industrial hygiene practices is required.
Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

### **SECTION 9: Physical and Chemical Properties**

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

Appearance	Liquid.
Colour	Colourless.
Odour	Acrylic
Odour threshold	Not available.
рН	Not relevant.
Melting point	Not available.
Initial boiling point and range	Not applicable.
Flash point	>100°C
Evaporation rate	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.1
Solubility(ies)	Slightly soluble in water.
Auto-ignition temperature	Not available.
Viscosity	≈6500 mPa s @ 23°C

Oxidising properties	Not available.
9.2. Other information	
Other information	Not relevant.
SECTION 10: Stability and rea	activity
10.1. Reactivity	
Reactivity	The following materials may react with the product: Strong oxidising agents. Light.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	There are no known reactivity hazards associated with this product.
10.4. Conditions to avoid	
Conditions to avoid	Protect against direct sunlight.
10.5. Incompatible materials	
Materials to avoid	Strong reducing agents. Strong oxidising agents.
10.6. Hazardous decompositio	on products
Hazardous decomposition products	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.
SECTION 11: Toxicological in	formation
11.1. Information on toxicolog	ical effects
Toxicological effects	The toxicological properties of this product have not been fully evaluated. Avoid direct contact with skin or eyes. Do not ingest or inhale.
Skin sensitisation Skin sensitisation	May cause sensitisation by skin contact.
Aspiration hazard Aspiration hazard	None under normal conditions.
Inhalation	May cause respiratory irritation.
Skin contact	Irritating to skin.
Eye contact	Causes serious eye damage.
Toxicological information on ir	ngredients.
	ISOBORNYL ACRYLATE

### ISOBORNYL ACRYLATE

Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0

Acute toxicity - dermal	
Acute toxicity dermal (LD₅ mg/kg)	3,000.0
Species	Rabbit
ATE dermal (mg/kg)	3,000.0
	2-HYDROXYETHYL METHACRYLATE
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	3,000.0
Species	Rabbit
ATE dermal (mg/kg)	3,000.0
	METHACRYLIC ACID
Acute toxicity - oral	
Acute toxicity oral (LD∞ mg/kg)	1,320.0
Species	Rat
ATE oral (mg/kg)	500.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	1,000.0
Species	Rabbit
ATE dermal (mg/kg)	1,000.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC₅ vapours mg/l)	7.1
Species	Rat
ATE inhalation (vapours mg/l)	11.0
DI	PHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE
Acute toxicity - oral	
Acute toxicity oral (LD₅₀	5,000.0

mg/kg)

Species	Rat
ATE oral (mg/kg)	5,000.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	2,000.1
Species	Rat
ATE dermal (mg/kg)	2,000.1
ECTION 12: Ecological Information	

SECTION 12: Ecological Information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

### 12.1. Toxicity

Toxicity

There are no data on the ecotoxicity of this product.

### Ecological information on ingredients.

#### ISOBORNYL ACRYLATE

Acute aquatic toxicity	
LE(C) <sub>50</sub>	$0.1 \le L(E)C50 \le 1$
M factor (Acute)	1
Acute toxicity - fish	LC₅₀, 96 hours: 0.704 mg/l, Danio rerio (Zebrafish)
Acute toxicity - aquatic plants	EC₅₀, 72 hours: 1.98 mg/l, Pseudokirchneriella subcapitata NOEC, 72 hours: 0.405 mg/l, Pseudokirchneriella subcapitata
Chronic aquatic toxicity	
M factor (Chronic)	1
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.092 mg/l, Daphnia magna
	2-HYDROXYETHYL METHACRYLATE
Acute toxicity - fish	LC₅₀, 96 hours: > 100 mg/l, Oryzias latipes (Red killifish)
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 380 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC₅₀, 72 hours: 836 mg/l, Selenastrum capricornutum NOEC, 72 hours: 400 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC₅₀, 16 hours: > 3000 mg/l, Pseudomonas fluorescens
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 24.1 mg/l, Daphnia magna
	METHACRYLIC ACID

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 85 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: > 130 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC₅₀, 72 hours: 45 mg/l, Selenastrum capricornutum LOEC, 72 hours: 45 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC₅₀, 17 hours: 270 mg/l, Pseudomonas putida
Chronic toxicity - fish early life stage	NOEC, 35 days: 10 mg/l, Danio rerio (Zebrafish)
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 53 mg/l, Daphnia magna
D	IPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE
Acute toxicity - fish	LC₅₀, 48 hours: 6.53 mg/l, Oryzias latipes (Red killifish)
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 3.53 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC₅₀, 72 hours: > 2.01 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EC₅₀, 180 minutes: > 1000 mg/l, Activated sludge
12.2. Persistence and degradability	
Persistence and degradability No data	available.
Persistence and degradability No data Ecological information on ingredients.	
Ecological information on ingredients.	ISOBORNYL ACRYLATE
Ecological information on ingredients.	ISOBORNYL ACRYLATE
Ecological information on ingredients.	ISOBORNYL ACRYLATE Water - Degradation 57%: 28 days
Ecological information on ingredients. Biodegradation	ISOBORNYL ACRYLATE Water - Degradation 57%: 28 days 2-HYDROXYETHYL METHACRYLATE
Ecological information on ingredients. Biodegradation	ISOBORNYL ACRYLATE Water - Degradation 57%: 28 days 2-HYDROXYETHYL METHACRYLATE Water - Degradation 84%: 28 days
Ecological information on ingredients. Biodegradation Biodegradation Biodegradation	ISOBORNYL ACRYLATE Water - Degradation 57%: 28 days 2-HYDROXYETHYL METHACRYLATE Water - Degradation 84%: 28 days METHACRYLIC ACID
Ecological information on ingredients. Biodegradation Biodegradation Biodegradation	ISOBORNYL ACRYLATEWater - Degradation 57%: 28 days2-HYDROXYETHYL METHACRYLATEWater - Degradation 84%: 28 daysMETHACRYLIC ACIDWater - Degradation 86%: 28 days
Ecological information on ingredients. Biodegradation Biodegradation Biodegradation	ISOBORNYL ACRYLATE         Water - Degradation 57%: 28 days         2-HYDROXYETHYL METHACRYLATE         Water - Degradation 84%: 28 days         METHACRYLIC ACID         Water - Degradation 86%: 28 days         PHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE
Ecological information on ingredients. Biodegradation Biodegradation Diodegradation Diodegradation 12.3. Bioaccumulative potential	ISOBORNYL ACRYLATE         Water - Degradation 57%: 28 days         2-HYDROXYETHYL METHACRYLATE         Water - Degradation 84%: 28 days         METHACRYLIC ACID         Water - Degradation 86%: 28 days         PHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE
Ecological information on ingredients. Biodegradation Biodegradation Diodegradation Diodegradation 12.3. Bioaccumulative potential	ISOBORNYL ACRYLATE         Water - Degradation 57%: 28 days         CHYDROXYETHYL METHACRYLATE         Water - Degradation 84%: 28 days         METHACRYLIC ACID         Water - Degradation 86%: 28 days         PHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE         Water - Degradation < 20%: 28 days         available on bioaccumulation.
Ecological information on ingredients. Biodegradation Biodegradation Biodegradation D Biodegradation 12.3. Bioaccumulative potential Bioaccumulative potential No data	ISOBORNYL ACRYLATEWater - Degradation 57%: 28 days2-HYDROXYETHYL METHACRYLATEWater - Degradation 84%: 28 daysMETHACRYLIC ACIDWater - Degradation 86%: 28 daysPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDEWater - Degradation < 20%: 28 days

### DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE

Bioaccumulative	potential BCF: 23 - 55, Cyprinus carpio (Common carp)			
12.4. Mobility in soil				
Mobility No data available.				
Ecological information on ingredients.				
	2-HYDROXYETHYL METHACRYLATE			
Adsorption/desorption Water - Koc: 42.7 @ 20°C coefficient				
12.5. Results of PBT and vPv	3 assessment			
Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.			
12.6. Other adverse effects				
Other adverse effects	None known.			
SECTION 13: Disposal consid	erations			
13.1. Waste treatment method	ls			
General information	Waste disposal should be in accordance with existing Community, National and local regulations Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.			
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.			
Waste class	08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances.			
SECTION 14: Transport inform	nation			
Road transport notes	Applies only to inner containers >5 litres. See SP 375			
Sea transport notes	Applies only to inner containers >5 litres. See 2.10.2.7 of the IMDG code.			
Air transport notes	Applies only to inner containers >5 litres. See SP A197 (375)			
14.1. UN number				
3082				
14.2. UN proper shipping nam ENVIRONMENTALLY HAZAF	e RDOUS SUBSTANCE, LIQUID, N.O.S. (contains Isobornyl Acrylate)			
<b>14.3. Transport hazard class(</b> 9				

Transport labels

Á 9

14.4. Packing group

Ш

14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

EmS F-A, S-F

Tunnel restriction code (E)

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. 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

National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
EU legislation	<ul> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16</li> <li>December 2008 on classification, labelling and packaging of substances and mixtures (as amended).</li> <li>COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)</li> </ul>
Guidance	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information		
Revision date	31/07/2015	
Revision	2	
Supersedes date	17/07/2012	
Risk phrases in full	<ul> <li>R21/22 Harmful in contact with skin and if swallowed.</li> <li>R22 Harmful if swallowed.</li> <li>R35 Causes severe burns.</li> <li>R36/37/38 Irritating to eyes, respiratory system and skin.</li> <li>R36/38 Irritating to eyes and skin.</li> <li>R37 Irritating to respiratory system.</li> <li>R43 May cause sensitisation by skin contact.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R62 Possible risk of impaired fertility.</li> </ul>	

Hazard statements in full	H302 Harmful if swallowed.
	H311 Toxic in contact with skin.
	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.
	H332 Harmful if inhaled.
	H335 May cause respiratory irritation.
	H361f Suspected of damaging fertility.
	H400 Very toxic to aquatic life.
	H410 Very toxic to aquatic life with long lasting effects.
	H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.