

Date of compilation: 08/08/2023 Version: 1

SECT	TION 1: IDENTIFICATION OF THE SU	BSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier:	DB 8820 - Duobond Pit Fill
	Other means of identification:	
	Non-applicable	
1.2	Relevant identified uses of the substa	nce or mixture and uses advised against:
	Relevant uses: Adhesive for glass. For prof	fessional users only.
	Uses advised against: All uses not specified	d in this section or in section 7.3
1.3	Details of the supplier of the safety da	ata sheet:
	DB-Imagineering BV	
	Laarakkerweg 10	
	5061 JR Oisterwijk - Netherlands Phone: 0135444440	
	info@db-img.com	
	Duobond is a brand name of DB-Imagineer	ring BV
1.4	Emergency telephone number: in cas	e of emergency: 112
SECT	TION 2: HAZARDS IDENTIFICATION	

2.1 Classification of the substance or mixture:

GB CLP Regulation:

Classification of this product has been carried out in accordance with GB CLP Regulation. Acute Tox. 4: Acute toxicity on contact with skin, Category 4, H312 Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard, Category 1, H410 Eye Irrit. 2: Eye irritation, Category 2, H319 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1: Sensitisation, skin, Category 1, H317 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2 Label elements:

GB CLP Regulation:

Warning



Hazard statements:

Acute Tox. 4: H312 - Harmful in contact with skin. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. Eye Irrit. 2: H319 - Causes serious eye irritation. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT SE 3: H335 - May cause respiratory irritation.

Precautionary statements:

P264: Wash thoroughly after use.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.

- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

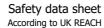
P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.

Supplementary information:

Contains 2-hydroxyethyl acrylate.

Substances that contribute to the classification





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SECTION 2: HAZARDS IDENTIFICATION (continued)

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate; (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate; Methacrylic acid

2.3 Other hazards:

Product does not meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Acrylic resin

Components:

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

	Identification	Chemical name/Classification	Concentration
CAS:	5888-33-5	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE () (1) 3: H335 - Warning	25 - <50 %
CAS:	42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Warning	10 - <25 %
CAS:	7473-98-5	2-hydroxy-2-methylpropiophenone Acute Tox. 4: H302; Aquatic Chronic 3: H412 - Warning	5 - <10 %
CAS:	79-41-4	Methacrylic acid Acute Tox. 3: H311; Acute Tox. 4: H302+H332; Eye Dam. 1: H318; Skin Corr. 1A: H314; STOT SE 3: H335 - Danger 🔗 谷	<1 %
CAS:	79-92-5	Camphene Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Flam. Sol. 2: H228 - Warning	<1 %
CAS:	818-61-1	2-hydroxyethyl acrylate Acute Tox. 3: H311; Acute Tox. 4: H302; Aquatic Acute 1: H400; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger	<1 %
To ob	tain more informat	ion on the hazards of the substances consult sections 11, 12 and 16.	

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply,etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

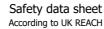
Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

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SECTION 4: FIRST AID MEASURES (continued)

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media: 5.1

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...). Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 **Environmental precautions:**

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

Methods and material for containment and cleaning up:

It is recommended:

6.3

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

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SECTION 7: HANDLING AND STORAGE (continued)

B.- Technical recommendations for the prevention of fires and explosions

It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.:5 °CMaximum Temp.:30 °CMaximum time:12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

There are no applicable occupational exposure limits for the substances contained in the product

DNEL (Workers):

		Short	exposure	Long	exposure
Identification		Systemic	Local	Systemic	Local
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 5888-33-5	Dermal	Non-applicable	Non-applicable	1.39 mg/kg	Non-applicable
EC: 227-561-6	Inhalation	Non-applicable	Non-applicable	4.9 mg/m ³	Non-applicable
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 42978-66-5	Dermal	Non-applicable	Non-applicable	1.7 mg/kg	Non-applicable
EC: 256-032-2	Inhalation	Non-applicable	Non-applicable	2.35 mg/m ³	Non-applicable
2-hydroxy-2-methylpropiophenone	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7473-98-5	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
EC: 231-272-0	Inhalation	Non-applicable	Non-applicable	3.5 mg/m ³	Non-applicable
Methacrylic acid	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 79-41-4	Dermal	Non-applicable	Non-applicable	4.25 mg/kg	Non-applicable
EC: 201-204-4	Inhalation	Non-applicable	Non-applicable	29.6 mg/m ³	88 mg/m ³
Camphene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 79-92-5	Dermal	1.25 mg/kg	Non-applicable	0.21 mg/kg	Non-applicable
EC: 201-234-8	Inhalation	110.19 mg/m ³	Non-applicable	110.19 mg/m ³	Non-applicable
2-hydroxyethyl acrylate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 818-61-1	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 212-454-9	Inhalation	Non-applicable	Non-applicable	Non-applicable	2.4 mg/m ³



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short	exposure	Long	g exposure
Identification		Systemic	Local	Systemic	Local
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	Oral	Non-applicable	Non-applicable	0.83 mg/kg	Non-applicable
CAS: 5888-33-5	Dermal	Non-applicable	Non-applicable	0.83 mg/kg	Non-applicable
EC: 227-561-6	Inhalation	Non-applicable	Non-applicable	1.45 mg/m ³	Non-applicable
2-hydroxy-2-methylpropiophenone	Oral	Non-applicable	Non-applicable	0.4 mg/kg	Non-applicable
CAS: 7473-98-5	Dermal	Non-applicable	Non-applicable	0.5 mg/kg	Non-applicable
EC: 231-272-0	Inhalation	Non-applicable	Non-applicable	0.9 mg/m ³	Non-applicable
Methacrylic acid	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 79-41-4	Dermal	Non-applicable	Non-applicable	2.55 mg/kg	Non-applicable
EC: 201-204-4	Inhalation	Non-applicable	Non-applicable	6.3 mg/m ³	6.55 mg/m ³
Camphene	Oral	0.625 mg/kg	Non-applicable	0.1 mg/kg	Non-applicable
CAS: 79-92-5	Dermal	0.625 mg/kg	Non-applicable	0.1 mg/kg	Non-applicable
EC: 201-234-8	Inhalation	54.3 mg/m ³	Non-applicable	54.3 mg/m ³	Non-applicable
2-hydroxyethyl acrylate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 818-61-1	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 212-454-9	Inhalation	Non-applicable	Non-applicable	Non-applicable	1.2 mg/m ³
PNEC:					
Identification					
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	STP	2 mg/L	Fresh water	0).001 mg/L
CAS: 5888-33-5	Soil	0.029 mg/kg	Marine water	() mg/L
EC: 227-561-6	Intermittent	0.007 mg/L	Sediment (Fresh	water) ().145 mg/kg
	Oral	Non-applicable	Sediment (Marine	e water)).015 mg/kg
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	STP	10 mg/L	Fresh water	C).005 mg/L
CAS: 42978-66-5	Soil	0.095 mg/kg	Marine water	() mg/L
EC: 256-032-2	Intermittent	0.046 mg/L	Sediment (Fresh	water) ().487 mg/kg
	Oral	Non-applicable	Sediment (Marine	e water)).049 mg/kg
2-hydroxy-2-methylpropiophenone	STP	45 mg/L	Fresh water	0).002 mg/L
CAS: 7473-98-5	Soil	0.001 mg/kg	Marine water	() mg/L
EC: 231-272-0	Intermittent	0.019 mg/L	Sediment (Fresh	water) ().009 mg/kg
	Oral	Non-applicable	Sediment (Marine	e water) 0).001 mg/kg
Camphene	STP	10 mg/L	Fresh water	0).001 mg/L
CAS: 79-92-5	Soil	0.021 mg/kg	Marine water	0) mg/L
EC: 201-234-8	Intermittent	0.001 mg/L	Sediment (Fresh	water)).026 mg/kg
	Oral	0.00208 g/kg	Sediment (Marine	e water)).003 mg/kg
2-hydroxyethyl acrylate	STP	10 mg/L	Fresh water	0).017 mg/L
CAS: 818-61-1	Soil	0.003 mg/kg	Marine water	().002 mg/L
EC: 212-454-9	Intermittent	0.036 mg/L	Sediment (Fresh	water)).064 mg/kg
	Oral	Non-applicable	Sediment (Marin	e water) 0).006 mg/kg

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.





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SECT	ION 8: EXPOSURE	CONTR	OLS/PERSONAL PROTECT	ON (continued)	
	C Specific protection	n for the	hands			
	Pictogram		PPE		R	emarks
	Mandatory hand protection	Breakthro	al protective gloves (Material: Butyl, bugh time: > 480 min, Thickness: 0.3 mm)			t any sign of deterioration.
			e of several substances, the res erefore to be checked prior to th			not be calculated in advance with
	D Eye and face prot					
	Pictogram		PPE		R	emarks
	Mandatory face protection		Face shield	Clean		ccording to the manufacturer 's instructions. a risk of splashing.
	E Body protection					
	Pictogram		PPE		R	emarks
	Mandatory complete body protection	Dispos	able clothing for protection against chemical risks	For		iodically according to the manufacturer 's tructions.
	Mandatory foot protection	Safety foo	otwear for protection against chemical risk		Replace boots at a	iny sign of deterioration.
	F Additional emerge	ency mea	asures			
	Emergency mea	asure	Standards		Emergency measure	Standards
	Emergency sho	ower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:20	11	Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
	Environmental exp	osure c	ontrols:			
	spillage of both the p	roduct a	unity legislation for the protection nd its container. For additional in counds in Paints, Varnishes 0.26 % weight	nforma	ation see subsection 7.1.D	nmended to avoid environmental ucts Regulations 2012:
	V.O.C. density at	20 ºC:	2.68 kg/m ³ (2.68 g/	′L)		
L						
SECT	ION 9: PHYSICAL A	AND CH	EMICAL PROPERTIES			
9.1	Information on bas	sic phys	ical and chemical properties	5:		
	For complete information	tion see	the product datasheet.			
	Appearance:					
	Physical state at 20 °	C:	Liqui	d		
	Appearance:		Color	less		
	Colour:		Not a	availab	le	
	Odour:		Citric	2		
	Odour threshold:		Non-	applic	able *	
	*Not relevant due to the r	nature of th	ne product, not providing information p	property	of its hazards.	



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SEC	TION 9: PHYSICAL AND CHEMICAL PROPERTIE	S (continued)
	Volatility:	
	Boiling point at atmospheric pressure:	272 °C
	Vapour pressure at 20 °C:	5.739E-1 Pa
	Vapour pressure at 50 °C:	8.44 Pa (0.01 kPa)
	Evaporation rate at 20 °C:	Non-applicable *
	Product description:	
	Density at 20 °C:	1049.4 kg/m³
	Relative density at 20 °C:	1.049
	Dynamic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 40 °C:	Non-applicable *
	Concentration:	Non-applicable *
	pH:	Non-applicable *
	Vapour density at 20 °C:	Non-applicable *
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *
	Solubility in water at 20 °C:	Non-applicable *
	Solubility properties:	Non-applicable *
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Flammability:	
	Flash Point:	Non Flammable (>60 °C)
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	214 °C
	Lower flammability limit:	Non-applicable *
	Upper flammability limit:	Non-applicable *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard clas	sses:
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Corrosive to metals:	Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammable components:	Non-applicable *
	Other safety characteristics:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providing info	ormation property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:



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SECTION 10: STABILITY AND REACTIVITY (continued)

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Precaution	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.

- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Produces skin inflammation.
 - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 - IARC: Non-applicable
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
 - Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

G- Specific target organ toxicity (STOT)-repeated exposure:

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	A	cute toxicity	Genus
Methacrylic acid	LD50 oral	1320 mg/kg	Rat
CAS: 79-41-4	LD50 dermal	500 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
2-hydroxy-2-methylpropiophenone	LD50 oral	1694 mg/kg	Rat
AS: 7473-98-5	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	LD50 oral	6800 mg/kg	Rat
AS: 42978-66-5	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Camphene	LD50 oral	>5000 mg/kg	Rat
CAS: 79-92-5	LD50 dermal	8189 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
2-hydroxyethyl acrylate	LD50 oral	Non-applicable	
CAS: 818-61-1	LD50 dermal	300 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Very toxic to aquatic life with long lasting effects.

12.1 Toxicity:

Acute toxicity:

Identification		Concentration	Species	Genus
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 5888-33-5	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	LC50	5.5 mg/L (96 h)	Leuciscus idus	Fish
CAS: 42978-66-5	EC50	88.7 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	28 mg/L (72 h)	Scenedesmus subspicatus	Algae
2-hydroxy-2-methylpropiophenone	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 7473-98-5	EC50	>10 - 100 mg/L (48 h)		Crustacean
	EC50	>10 - 100 mg/L (72 h)		Algae
Methacrylic acid	LC50	Non-applicable		
CAS: 79-41-4	EC50	130 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
Camphene	LC50	0.72 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 79-92-5	EC50	46 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		



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Identification		Concentration	Species	Genus
2-hydroxyethyl acrylate	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 818-61-1	EC50	>0.1 - 1 mg/L (48 h)		Crustacea
	EC50	>0.1 - 1 mg/L (72 h)		Algae

Identification		Concentration	Species	Genus
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	NOEC	Non-applicable		
CAS: 5888-33-5	NOEC	0.092 mg/L	Daphnia magna	Crustacean
Methacrylic acid	NOEC	Non-applicable		
CAS: 79-41-4	NOEC	53 mg/L	Daphnia magna	Crustacean
2-hydroxyethyl acrylate	NOEC	Non-applicable		
CAS: 818-61-1	NOEC	1.8 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degr	adability	Biodegradability	
Methacrylic acid	BOD5	Non-applicable	Concentration	3 mg/L
CAS: 79-41-4	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	86 %
Camphene	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 79-92-5	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	4 %
2-hydroxyethyl acrylate	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 818-61-1	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	78 %

12.3 Bioaccumulative potential:

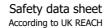
Substance-specific information:

Identification	Bioaccumulation potential		
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	BCF		
CAS: 42978-66-5	Pow Log	2.77	
	Potential		
Methacrylic acid	BCF	2	
CAS: 79-41-4	Pow Log		
	Potential	Low	
Camphene	BCF	1290	
CAS: 79-92-5	Pow Log	4.22	
	Potential	Very High	
2-hydroxyethyl acrylate	BCF	0.41	
CAS: 818-61-1	Pow Log	-0.21	
	Potential	Low	

12.4 Mobility in soil:

Identification	Absorp	Absorption/desorption		Volatility	
Methacrylic acid	Кос	25	Henry	3.9E-2 Pa·m ³ /mol	
CAS: 79-41-4	Conclusion	Very High	Dry soil	Yes	
	Surface tension	2.912E-2 N/m (25 °C)	Moist soil	Yes	
Camphene	Кос	Non-applicable	Henry	Non-applicable	
CAS: 79-92-5	Conclusion	Non-applicable	Dry soil	Non-applicable	
	Surface tension	1.098E-2 N/m (205.93 °C)	Moist soil	Non-applicable	
2-hydroxyethyl acrylate	Кос	Non-applicable	Henry	Non-applicable	
CAS: 818-61-1	Conclusion	Non-applicable	Dry soil	Non-applicable	
	Surface tension	2.487E-2 N/m (25 °C)	Moist soil	Non-applicable	

12.5 Results of PBT and vPvB assessment:





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SECTION 12: ECOLOGICAL INFORMATION (continued)

Product does not meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances	Dangerous

Type of waste:

HP14 Ecotoxic, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

	14.1	UN number:	UN3082
	14.2	UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Exo- 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)
	14.3	Transport hazard class(es):	9
		Labels:	9
	14.4	Packing group:	III
	14.5	Environmental hazards:	Yes
	14.6	Special precautions for user	
		Tunnel restriction code:	-
		Physico-Chemical properties:	see section 9
		Limited quantities:	5 L
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
Transport of da	ngero	us goods by sea:	
With regard to IM	IDG 40	-20:	

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		UN number: UN proper shipping name:	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Exo-
			1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)
	14.3	Transport hazard class(es):	9
		Labels:	9
	14.4	Packing group:	III
		Marine pollutant:	Yes
	14.6	Special precautions for user	
		Special regulations:	335, 969, 274
		EmS Codes:	F-A, S-F
		Physico-Chemical properties:	see section 9
		Limited quantities:	5 L
		Segregation group:	Non-applicable
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
Transport of da	ngero	us goods by air:	
With regard to IA	TA/ICA	NO 2023:	
	14.1	UN number:	UN3082
	14.2	UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Exo- 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)
	14.3	Transport hazard class(es): Labels:	9 9
	14.4	Packing group:	III
		Environmental hazards:	Yes
	14.6	Special precautions for user	
		Physico-Chemical properties:	see section 9
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable

SECTION 15: REGULATORY INFORMATION

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable
- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

The Control of Major Accident Hazards Regulations 2015:

Section	Description	Lower-tier requirements	Upper-tier requirements
E1	ENVIRONMENTAL HAZARDS	100	200

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc):

----ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

tricks and jokes,

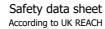
-games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

Shall not be used in:





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SECTION 15: REGULATORY INFORMATION (continued)

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H312: Harmful in contact with skin.

H319: Causes serious eye irritation.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

GB CLP Regulation:

Acute Tox. 3: H311 - Toxic in contact with skin. Acute Tox. 4: H302 - Harmful if swallowed. Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects. Eye Dam. 1: H318 - Causes serious eye damage. Eye Irrit. 2: H319 - Causes serious eye irritation. Flam. Sol. 2: H228 - Flammable solid. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT SE 3: H335 - May cause respiratory irritation. **Classification procedure:**

Skin Irrit. 2: Calculation method Skin Sens. 1: Calculation method STOT SE 3: Calculation method Aquatic Acute 1: Calculation method Aquatic Chronic 1: Calculation method Acute Tox. 4: Calculation method Eye Irrit. 2: Calculation method

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:

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SECTION 16: OTHER INFORMATION (continued)
ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50 EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -

