

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier:** PRO-0330 B - PRO-0330 Part B

**Other means of identification:**

Not relevant

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

Relevant uses (Industrial user): Adhesive

For Industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3

**1.3 Details of the supplier of the safety data sheet:**

PANTHER TOOLS AND PRODUCTS LTD  
UNIT D, VANGUARD BUILDINGS BRITANNIA ROAD CHESTERFIELD  
S40 2TZ  
Telefonnr: +44 1246 559337  
Sales@panther-pro.co.uk

**1.4 Emergency telephone number:** Within the European Union: 112

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture:**

**CLP Regulation (EC) No 1272/2008:**

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Acute Tox. 4: Acute toxicity on contact with skin, Category 4, H312

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411

Eye Dam. 1: Serious eye damage, Category 1, H318

Skin Corr. 1A: Skin corrosion, Category 1A, H314

Skin Sens. 1A: Sensitisation, skin, Category 1A, H317

STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

**2.2 Label elements:**

**CLP Regulation (EC) No 1272/2008:**

**Danger**



**Hazard statements:**

Acute Tox. 4: H312 - Harmful in contact with skin.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

STOT SE 3: H335 - May cause respiratory irritation.

**Precautionary statements:**

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

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352: IF ON SKIN: Wash with plenty of water.

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

P304+P340: IF INHALED: Remove person to fresh air and keep 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 contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

**Supplementary information:**

Contains Methyl methacrylate, Trimethylenediamine.

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**SECTION 2: HAZARDS IDENTIFICATION (continued)**
**Substances that contribute to the classification**

Benzyl methacrylate; Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate; Boron, triethyl(1,3-propanediamine-.kappa.N)-, (T-4)-; Trimethylenediamine

**2.3 Other hazards:**

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.













**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**
**3.1 Substance:**

Not relevant

**3.2 Mixture:**
**Chemical description:** Abrasive/s

**Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification		Concentration
CAS: 2495-37-6 EC: 219-674-4 Index: Not relevant REACH: 01-2119960155-39-XXXX	<b>Benzyl methacrylate<sup>(1)</sup></b> Self-classified		<b>50 - &lt;75%</b>
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317; STOT SE 3: H335 - Warning 	
CAS: 5888-33-5 EC: 227-561-6 Index: 607-756-00-6 REACH: 01-2119957862-25-XXXX	<b>Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate<sup>(1)</sup></b> Self-classified		<b>10 - &lt;25%</b>
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1A: H317 - Warning  	
CAS: 148861-07-8 EC: 604-654-3 Index: Not relevant REACH: Not relevant	<b>Boron, triethyl(1,3-propanediamine-.kappa.N)-, (T-4)-<sup>(1)</sup></b> Self-classified		<b>5 - &lt;10%</b>
	Regulation 1272/2008	Acute Tox. 4: H312; Skin Corr. 1A: H314 - Danger  	
CAS: 80-62-6 EC: 201-297-1 Index: 607-035-00-6 REACH: 01-2119952498-28-XXXX	<b>Methyl methacrylate<sup>(1)</sup></b> ATP CLP00		<b>&lt;1%</b>
	Regulation 1272/2008	Flam. Liq. 2: H225; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Danger  	
CAS: 128-37-0 EC: 204-881-4 Index: Not relevant REACH: 01-21199565113-46-XXXX	<b>2,6-di-tert-butyl-p-cresol<sup>(1)</sup></b> Self-classified		<b>&lt;1%</b>
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning 	
CAS: 109-76-2 EC: 203-702-7 Index: Not relevant REACH: 01-2119977065-31-XXXX	<b>Trimethylenediamine<sup>(1)</sup></b> Self-classified		<b>&lt;1%</b>
	Regulation 1272/2008	Acute Tox. 2: H310; Acute Tox. 4: H302; Flam. Liq. 3: H226; Resp. Sens. 1B: H334; Skin Corr. 1B: H314; Skin Sens. 1B: H317 - Danger    	

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
Trimethylenediamine CAS: 109-76-2 EC: 203-702-7	LD50 oral	Not relevant	Rabbit
	LD50 dermal	178 mg/kg	
	LC50 inhalation vapour	Not relevant	
Boron, triethyl(1,3-propanediamine-.kappa.N)-, (T-4)- CAS: 148861-07-8 EC: 604-654-3	LD50 oral	Not relevant	
	LD50 dermal	1100 mg/kg	
	LC50 inhalation vapour	Not relevant	

**SECTION 4: FIRST AID MEASURES**
**4.1 Description of first aid measures:**

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#### SECTION 4: FIRST AID MEASURES (continued)

Request medical assistance immediately, 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:**

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

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

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

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

Not relevant

#### SECTION 5: FIREFIGHTING MEASURES

**5.1 Extinguishing media:**

**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. 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:**

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## SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

### 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.

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

It is recommended:

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

### 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.

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

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. 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.- Specific storage requirements

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum 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.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**
**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits		
	Methyl methacrylate CAS: 80-62-6    EC: 201-297-1	IOELV (8h)	50 ppm
	IOELV (STEL)	100 ppm	

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Benzyl methacrylate CAS: 2495-37-6 EC: 219-674-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	6,94 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	24,2 mg/m <sup>3</sup>	Not relevant
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate CAS: 5888-33-5 EC: 227-561-6	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	1,39 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	4,9 mg/m <sup>3</sup>	Not relevant
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	13,67 mg/kg	Not relevant
	Inhalation	Not relevant	416 mg/m <sup>3</sup>	348,4 mg/m <sup>3</sup>	208 mg/m <sup>3</sup>
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	3,5 mg/m <sup>3</sup>	Not relevant
Trimethylenediamine CAS: 109-76-2 EC: 203-702-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,26 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	3 mg/m <sup>3</sup>	Not relevant

**DNEL (General population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Benzyl methacrylate CAS: 2495-37-6 EC: 219-674-4	Oral	Not relevant	Not relevant	4,17 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	4,17 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	7,2 mg/m <sup>3</sup>	Not relevant
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate CAS: 5888-33-5 EC: 227-561-6	Oral	Not relevant	Not relevant	0,83 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,83 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1,45 mg/m <sup>3</sup>	Not relevant
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	Oral	Not relevant	Not relevant	8,2 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	8,2 mg/kg	Not relevant
	Inhalation	Not relevant	208 mg/m <sup>3</sup>	74,3 mg/m <sup>3</sup>	104 mg/m <sup>3</sup>
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,25 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,86 mg/m <sup>3</sup>	Not relevant

**PNEC:**

Identification		PNEC		
		STP	Fresh water	Sediment
Benzyl methacrylate CAS: 2495-37-6 EC: 219-674-4	Soil	1,33 mg/L	Fresh water	0,01 mg/L
	Soil	0,079 mg/kg	Marine water	0,001 mg/L
	Intermittent	0,005 mg/L	Sediment (Fresh water)	0,423 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,042 mg/kg
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate CAS: 5888-33-5 EC: 227-561-6	STP	2 mg/L	Fresh water	0,001 mg/L
	Soil	0,029 mg/kg	Marine water	0 mg/L
	Intermittent	0,007 mg/L	Sediment (Fresh water)	0,145 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,015 mg/kg

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Identification				
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	STP	10 mg/L	Fresh water	0,94 mg/L
	Soil	1,48 mg/kg	Marine water	0,094 mg/L
	Intermittent	0,94 mg/L	Sediment (Fresh water)	10,2 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,102 mg/kg
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	STP	0,17 mg/L	Fresh water	0,000199 mg/L
	Soil	0,04769 mg/kg	Marine water	0,00002 mg/L
	Intermittent	0,00199 mg/L	Sediment (Fresh water)	0,0996 mg/kg
	Oral	0,00833 g/kg	Sediment (Marine water)	0,00996 mg/kg
Trimethylenediamine CAS: 109-76-2 EC: 203-702-7	STP	10 mg/L	Fresh water	1 mg/L
	Soil	0,412 mg/kg	Marine water	0,1 mg/L
	Intermittent	0,27 mg/L	Sediment (Fresh water)	5 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,5 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 <<CE marking>> in accordance with Regulation (EU) 2016/425. 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	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours (Filter type: A)		EN 405:2002+A1:2010	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.

**C.- Specific protection for the hands**



Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Butyl, Breakthrough time: > 60 min, Thickness: 0.7 mm)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

**D.- Eye and face protection**



Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Face shield		EN 166:2002 UNE-EN ISO 18526-1 al 4:2020 UNE-EN ISO 18526-1 al 4:2020 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

**E.- Body protection**

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks		EN 13034:2005+A1:2009 UNE-EN ISO 18526-1 al 4:2020 EN ISO 13982-1:2005/A1:2011 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1995	For professional use only. Clean periodically according to the manufacturer's instructions.



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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory foot protection	Safety footwear for protection against chemical risk		EN ISO 20345:2022 EN 13832-1:2019	Replace boots at any sign of deterioration.

**F.- Additional emergency measures**

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

**Environmental exposure controls:**

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

**Volatile organic compounds:**

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	1,2 % weight
V.O.C. density at 20 °C:	12,07 kg/m <sup>3</sup> (12,07 g/L)
Average carbon number:	4,33
Average molecular weight:	91,44 g/mol

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**
**9.1 Information on basic physical and chemical properties:**

For complete information see the product datasheet.

**Appearance:**

Physical state at 20 °C:	Liquid
Appearance:	Not relevant *
Colour:	Not relevant *
Odour:	Not relevant *
Odour threshold:	Not relevant *

**Volatility:**

Boiling point at atmospheric pressure:	243 °C
Vapour pressure at 20 °C:	88 Pa
Vapour pressure at 50 °C:	404,01 Pa (0,4 kPa)
Evaporation rate at 20 °C:	Not relevant *

**Product description:**

Density at 20 °C:	1005,7 kg/m <sup>3</sup>
Relative density at 20 °C:	1,006
Dynamic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 40 °C:	Not relevant *
Concentration:	Not relevant *
pH:	Not relevant *

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

Vapour density at 20 °C:	Not relevant *
Partition coefficient n-octanol/water 20 °C:	Not relevant *
Solubility in water at 20 °C:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *

**Flammability:**

Flash Point:	99 °C
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	345 °C
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

**Particle characteristics:**

Median equivalent diameter:	Not relevant *
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**9.2 Other information:**

**Information with regard to physical hazard classes:**

Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *

**Other safety characteristics:**

Surface tension at 20 °C:	Not relevant *
Refraction index:	Not relevant *

\*Not relevant due to the nature of the product, not providing information 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:**

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
Not applicable	Not applicable	Precaution	Precaution	Not applicable

**10.5 Incompatible materials:**

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	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 (CO<sub>2</sub>), carbon monoxide and other organic compounds.

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**SECTION 11: TOXICOLOGICAL INFORMATION**
**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:**

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: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

**B- Inhalation (acute effect):**

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

**C- Contact with the skin and the eyes (acute effect):**

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious 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: Methyl methacrylate (3); Styrene-Butadiene copolymer (3); 2,6-di-tert-butyl-p-cresol (3)
- 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. However, it contains substances classified as dangerous 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:**

- 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:**

Not relevant

**Specific toxicology information on the substances:**

Identification	Acute toxicity		Genus
Benzyl methacrylate CAS: 2495-37-6 EC: 219-674-4	LD50 oral	3850 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation vapour		

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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
Trimethylenediamine CAS: 109-76-2 EC: 203-702-7	LD50 oral	311 mg/kg	Rat
	LD50 dermal	178 mg/kg	Rabbit
	LC50 inhalation vapour		
Boron, triethyl(1,3-propanediamine- $\kappa$ .N)-, (T-4)- CAS: 148861-07-8 EC: 604-654-3	LD50 oral		
	LD50 dermal	1100 mg/kg	
	LC50 inhalation vapour		
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	LD50 oral	>6000 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	Rat
	LC50 inhalation dust		

**11.2 Information on other hazards:**
**Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

**Other information**

Not relevant

**SECTION 12: ECOLOGICAL INFORMATION**

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

Toxic to aquatic life (with long lasting effects).

**12.1 Toxicity:**
**Acute toxicity:**

Identification	Concentration		Species	Genus
	LC50	EC50		
Benzyl methacrylate CAS: 2495-37-6 EC: 219-674-4	LC50	4,7 mg/L (96 h)	Pimephales promelas	Fish
	EC50	Not relevant		
	EC50	2,3 mg/L (72 h)	Desmodesmus subspicatus	Algae
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate CAS: 5888-33-5 EC: 227-561-6	LC50	>0.1 - 1 mg/L (96 h)		Fish
	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	LC50	191 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	69 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	170 mg/L (96 h)	Selenastrum capricornutum	Algae
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	LC50	>0,57 mg/L (96 h)	Brachydanio rerio	Fish
	EC50	0,48 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	>0,4 mg/L (72 h)	Desmodesmus subspicatus	Algae
Trimethylenediamine CAS: 109-76-2 EC: 203-702-7	LC50	110 mg/L (96 h)	Leuciscus idus	Fish
	EC50	Not relevant		
	EC50	175,1 mg/L (72 h)	Desmodesmus subspicatus	Algae

**Chronic toxicity:**

Identification	Concentration		Species	Genus
	NOEC	Not relevant		
Benzyl methacrylate CAS: 2495-37-6 EC: 219-674-4	NOEC	Not relevant		
	NOEC	4,21 mg/L	Daphnia magna	Crustacean
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate CAS: 5888-33-5 EC: 227-561-6	NOEC	Not relevant		
	NOEC	0,092 mg/L	Daphnia magna	Crustacean
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	NOEC	9,4 mg/L	Danio rerio	Fish
	NOEC	37 mg/L	Daphnia magna	Crustacean
Trimethylenediamine CAS: 109-76-2 EC: 203-702-7	NOEC	1 mg/L	N/A	Fish
	NOEC	10 mg/L	Daphnia magna	Crustacean

**12.2 Persistence and degradability:**
**Substance-specific information:**

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**SECTION 12: ECOLOGICAL INFORMATION (continued)**

Identification	Degradability		Biodegradability	
	Parameter	Value	Parameter	Value
Benzyl methacrylate CAS: 2495-37-6 EC: 219-674-4	BOD5	Not relevant	Concentration	Not relevant
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	74 %
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	14 days
	BOD5/COD	Not relevant	% Biodegradable	94,3 %
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	BOD5	Not relevant	Concentration	50 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	4,5 %
Trimethylenediamine CAS: 109-76-2 EC: 203-702-7	BOD5	Not relevant	Concentration	20 mg/L
	COD	Not relevant	Period	14 days
	BOD5/COD	Not relevant	% Biodegradable	96 %

**12.3 Bioaccumulative potential:**
**Substance-specific information:**

Identification	Bioaccumulation potential	
	Parameter	Value
Benzyl methacrylate CAS: 2495-37-6 EC: 219-674-4	BCF	
	Pow Log	3.1
	Potential	
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	BCF	7
	Pow Log	1.38
	Potential	Low
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	BCF	1365
	Pow Log	5.1
	Potential	Very High
Trimethylenediamine CAS: 109-76-2 EC: 203-702-7	BCF	3
	Pow Log	1.13
	Potential	Low

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
	Parameter	Value	Parameter	Value
Benzyl methacrylate CAS: 2495-37-6 EC: 219-674-4	Koc	342	Henry	1,19 Pa·m <sup>3</sup> /mol
	Conclusion	Moderate	Dry soil	Yes
	Surface tension	Not relevant	Moist soil	Yes
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	Koc	Not relevant	Henry	Not relevant
	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	2,551E-2 N/m (25 °C)	Moist soil	Not relevant
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Koc	8183	Henry	3,42E-1 Pa·m <sup>3</sup> /mol
	Conclusion	Immobile	Dry soil	Yes
	Surface tension	1,255E-2 N/m (258,85 °C)	Moist soil	Yes
Trimethylenediamine CAS: 109-76-2 EC: 203-702-7	Koc	14	Henry	0E+0 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant

**12.5 Results of PBT and vPvB assessment:**

Product does not meet PBT/vPvB criteria

**12.6 Endocrine disrupting properties:**

Endocrine-disrupting properties: The product does not meet the criteria.

**12.7 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

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**SECTION 13: DISPOSAL CONSIDERATIONS (continued)**

**13.1 Waste treatment methods:**

Code	Description	Waste class (Regulation (EU) No 1357/2014)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances	Hazardous

**Type of waste (Regulation (EU) No 1357/2014):**

HP14 Ecotoxic, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP13 Sensitising, HP8 Corrosive

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) 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-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

With regard to ADR 2025 and RID 2025:



- 14.1 UN number or ID number:** UN1760
- 14.2 UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (Boron, triethyl(1,3-propanediamine -kappa.N)-, (T-4)-; Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)
- 14.3 Transport hazard class(es):** 8
- Labels:** 8
- 14.4 Packing group:** II
- 14.5 Environmental hazards:** Yes
- 14.6 Special precautions for user**
  - Special regulations: 274
  - Tunnel restriction code: E
  - Physico-Chemical properties: see section 9
  - Limited quantities: 1 L
- 14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**Transport of dangerous goods by sea:**

With regard to IMDG 41-22:

**SECTION 14: TRANSPORT INFORMATION (continued)**



- 14.1 UN number or ID number:** UN1760  
**14.2 UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (Boron, triethyl(1,3-propanediamine -kappa.N)-, (T-4)-; Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)  
**14.3 Transport hazard class(es):** 8  
 Labels: 8  
**14.4 Packing group:** II  
**14.5 Marine pollutant:** Yes  
**14.6 Special precautions for user**  
 Special regulations: 274  
 EmS Codes: F-A, S-B  
 Physico-Chemical properties: see section 9  
 Limited quantities: 1 L  
 Segregation group: Not relevant  
**14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2025:



- 14.1 UN number or ID number:** UN1760  
**14.2 UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (Boron, triethyl(1,3-propanediamine -kappa.N)-, (T-4)-; Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)  
**14.3 Transport hazard class(es):** 8  
 Labels: 8  
**14.4 Packing group:** II  
**14.5 Environmental hazards:** Yes  
**14.6 Special precautions for user**  
 Physico-Chemical properties: see section 9  
**14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**SECTION 15: REGULATORY INFORMATION**

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

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EU) 2019/1021 on persistent organic pollutants: Not relevant
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

**Seveso III:**

Section	Description	Lower-tier requirements	Upper-tier requirements
E2	ENVIRONMENTAL HAZARDS	200	500

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Shall not be used in:

- 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:**

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## SECTION 15: REGULATORY INFORMATION (continued)

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:

The product could be affected by sectorial legislation

### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

## SECTION 16: OTHER INFORMATION

### Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

### Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Not relevant

### Texts of the legislative phrases mentioned in section 2:

H335: May cause respiratory irritation.

H318: Causes serious eye damage.

H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

### 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

### CLP Regulation (EC) No 1272/2008:

Acute Tox. 2: H310 - Fatal in contact with skin.

Acute Tox. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H312 - Harmful in contact with skin.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Resp. Sens. 1B: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

STOT SE 3: H335 - May cause respiratory irritation.

### Classification procedure:

STOT SE 3: Calculation method

Eye Dam. 1: Calculation method

Skin Sens. 1A: Calculation method

Aquatic Chronic 2: Calculation method

Acute Tox. 4: Calculation method

Skin Corr. 1A: 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 European and state level, 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 -