

100114150/100114420/100102075 - SHUBOND BLACK/BEIGE/NEXT GEN (B) 150 ML/420 ML/75 ML

Date of compilation: 24/05/2023

Revised: 08/06/2023

Version: 10 (Replaced 9)

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

1.1 Product identifier: 100114150/100114420/100102075 - SHUBOND BLACK/BEIGE/NEXT GEN (B) 150 ML/420 ML/75 ML

Other means of identification:

UFI: QNKD-7UW6-6W0R-8SE1

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

Relevant uses: Animal care product: Glue for horseshoes and hoof repair. For professional users 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:

Glue-U Adhesives B.V.
Droogdokkeneiland 8
5026 SR Tilburg - The Netherlands
Phone: +31 (0)13 545 31 18
info@glue-u.com
www.glue-u.com

1.4 Emergency telephone number: +31 (0)6 24533395 Mon-Fri 08-17

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 if swallowed, Category 4, H302
Eye Dam. 1: Serious eye damage, Category 1, H318
Flam. Liq. 1: Flammable liquids, Category 1, H224
Skin Corr. 1C: Skin corrosion, Category 1C, H314
Skin Sens. 1: Sensitisation, skin, Category 1, 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: H302 - Harmful if swallowed.
Flam. Liq. 1: H224 - Extremely flammable liquid and vapour.
Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
STOT SE 3: H335 - May cause respiratory irritation.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378: In case of fire: Use ABC powder extinguisher to extinguish.

Supplementary information:

Contains Cyclohexyl methacrylate.

Substances that contribute to the classification

Methyl methacrylate; Methacrylic acid; REACTION PRODUCTS OF 2-HYDROXYETHYL METHACRYLATE AND DIPHOSPHORPENT TOXIDE AND WATER (HEMA-PHOSPHATE); 1,4-dimethylpiperazine

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** Changes with regards to the previous version

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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria
Endocrine-disrupting properties: The product fails to meet the criteria.

** Changes with regards to the previous version

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 Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 80-62-6 EC: 201-297-1 Index: 607-035-00-6 REACH: 01-2119452498-28-XXXX	Methyl methacrylate ¹ Regulation 1272/2008 Flam. Liq. 2: H225; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Danger	ATP CLP00 30 - <40 %
CAS: 948-065-2 EC: Non-applicable Index: 01-2120770699-34 REACH: Non-applicable	REACTION PRODUCTS OF 2-HYDROXYETHYL METHACRYLATE AND DIPHOSPHORPENT TOXIDE AND WATER (HEMA-PHOSPHATE) ¹ Regulation 1272/2008 Aquatic Acute 1: H400; Eye Dam. 1: H318; Skin Corr. 1C: H314 - Danger	Self-classified 1 - <5 %
CAS: 106-58-1 EC: 203-412-0 Index: Non-applicable REACH: 01-2120038885-46-XXXX	1,4-dimethylpiperazine ¹ Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Flam. Liq. 2: H225; Skin Corr. 1C: H314 - Danger	Self-classified 1 - <5 %
CAS: 79-41-4 EC: 201-204-4 Index: Non-applicable REACH: 01-2119463884-26-XXXX	Methacrylic acid ¹ Regulation 1272/2008 Acute Tox. 3: H311; Acute Tox. 4: H302+H332; Eye Dam. 1: H318; Skin Corr. 1A: H314; STOT SE 3: H335 - Danger	Self-classified 1 - <5 %
CAS: 38668-48-3 EC: 254-075-1 Index: Non-applicable REACH: 01-2119980937-17-XXXX	1,1'-(p-tolylimino)dipropan-2-ol ¹ Regulation 1272/2008 Acute Tox. 2: H300; Aquatic Chronic 3: H412; Eye Irrit. 2: H319 - Danger	Self-classified 1 - <5 %
CAS: 101-43-9 EC: 202-943-5 Index: Non-applicable REACH: 01-2119484667-21-XXXX	Cyclohexyl methacrylate ¹ Regulation 1272/2008 Skin Sens. 1: H317; STOT SE 3: H335 - Warning	Self-classified 1 - <5 %

¹ 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.

Other information:

Identification	Specific concentration limit
Methacrylic acid CAS: 79-41-4 EC: 201-204-4	% (w/w) >=10: Skin Corr. 1A - H314 % (w/w) >=1: Eye Irrit. 2 - H319 % (w/w) >=1: STOT SE 3 - H335

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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.

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SECTION 4: FIRST AID MEASURES (continued)

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:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

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,...) in accordance with Directive 89/654/EC.

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. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilled 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:

it is recommended to avoid environmental spillage of both the product and its container

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

6.3 Methods and material for containment and cleaning up:

It is recommended:

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.

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

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). 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

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.:	5 °C
Maximum Temp.:	20 °C
Maximum time:	6 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 (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	
	IOELV (8h)	IOELV (STEL)
Methyl methacrylate	50 ppm	
CAS: 80-62-6 EC: 201-297-1	100 ppm	

DNEL (Workers):

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	13,67 mg/kg	Non-applicable
	Inhalation	Non-applicable	416 mg/m ³	348,4 mg/m ³	208 mg/m ³
1,4-dimethylpiperazine CAS: 106-58-1 EC: 203-412-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,63 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,23 mg/m ³	Non-applicable
Methacrylic acid CAS: 79-41-4 EC: 201-204-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	4,25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	29,6 mg/m ³	88 mg/m ³
1,1'-(p-tolylimino)dipropan-2-ol CAS: 38668-48-3 EC: 254-075-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,47 mg/m ³	Non-applicable
Cyclohexyl methacrylate CAS: 101-43-9 EC: 202-943-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	4,2 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	14,81 mg/m ³	Non-applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	Oral	Non-applicable	Non-applicable	8,2 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	8,2 mg/kg	Non-applicable
	Inhalation	Non-applicable	208 mg/m ³	74,3 mg/m ³	104 mg/m ³
Methacrylic acid CAS: 79-41-4 EC: 201-204-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,55 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	6,3 mg/m ³	6,55 mg/m ³
1,1'-(p-tolylimino)dipropan-2-ol CAS: 38668-48-3 EC: 254-075-1	Oral	Non-applicable	Non-applicable	0,25 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable

PNEC:

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	Non-applicable	Sediment (Marine water)	0,102 mg/kg
1,4-dimethylpiperazine CAS: 106-58-1 EC: 203-412-0	STP	651 mg/L	Fresh water	0,095 mg/L
	Soil	0,105 mg/kg	Marine water	0,009 mg/L
	Intermittent	0,946 mg/L	Sediment (Fresh water)	0,804 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,08 mg/kg
1,1'-(p-tolylimino)dipropan-2-ol CAS: 38668-48-3 EC: 254-075-1	STP	199,5 mg/L	Fresh water	0,017 mg/L
	Soil	0,023 mg/kg	Marine water	0,002 mg/L
	Intermittent	0,17 mg/L	Sediment (Fresh water)	0,163 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,016 mg/kg
Cyclohexyl methacrylate CAS: 101-43-9 EC: 202-943-5	STP	9 mg/L	Fresh water	0,013 mg/L
	Soil	0,048 mg/kg	Marine water	0,001 mg/L
	Intermittent	0,13 mg/L	Sediment (Fresh water)	0,28 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,028 mg/kg

8.2 Exposure controls:

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

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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, B, E, K)	CE CAT III	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: Neoprene, Breakthrough time: > 480 min, Thickness: 0.35 mm)	CE CAT III	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	CE CAT II	EN 166:2002 EN 167:2002 EN 168:2002 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, with antistatic and fireproof properties	CE CAT III	EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties	CE CAT III	EN ISO 13287:2020 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

F.- Additional emergency measures

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:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

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

- V.O.C. (Supply): 45 % weight
- V.O.C. density at 20 °C: 452,22 kg/m³ (452,22 g/L)

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Average carbon number:	5,11
Average molecular weight:	101,67 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:	Paste
Colour:	 Beige
Odour:	Characteristic
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	>35 °C
Vapour pressure at 20 °C:	Non-applicable *
Vapour pressure at 50 °C:	Non-applicable *
Evaporation rate at 20 °C:	Non-applicable *

Product description:

Density at 20 °C:	1004,9 kg/m ³
Relative density at 20 °C:	0,7 - 1,5
Dynamic viscosity at 20 °C:	100000 cP
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	>20,5 mm ² /s
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:	>15 °C
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Not available
Upper flammability limit:	Not available

Particle characteristics:

Median equivalent diameter:	Non-applicable
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9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *

*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)

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 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.

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	Risk of combustion	Avoid direct impact	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:

Contains substances highly reactive and can auto-polymerize as a result of internal peroxide accumulation. The peroxides formed in these reactions are extremely shock- and heat-sensitive.

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 : The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- 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. However, it contains 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):

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- 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)
- 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:

- 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		Acute toxicity	Genus
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
REACTION PRODUCTS OF 2-HYDROXYETHYL METHACRYLATE AND DIPHOSPHORPENT TOXIDE AND WATER (HEMA-PHOSPHATE) CAS: 948-065-2 EC: Non-applicable	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	Non-applicable	
1,4-dimethylpiperazine CAS: 106-58-1 EC: 203-412-0	LD50 oral	1116,2 mg/kg	Rat
	LD50 dermal	3000 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
Methacrylic acid CAS: 79-41-4 EC: 201-204-4	LD50 oral	1320 mg/kg	Rat
	LD50 dermal	500 mg/kg	Rabbit
	LC50 inhalation	11 mg/L (ATEi)	
1,1'-(p-tolylimino)dipropan-2-ol CAS: 38668-48-3 EC: 254-075-1	LD50 oral	25 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>5 mg/L	
Cyclohexyl methacrylate CAS: 101-43-9 EC: 202-943-5	LD50 oral	12900 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	29,8 mg/L (4 h)	Rat

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

Other information

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

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SECTION 12: ECOLOGICAL INFORMATION (continued)

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

12.1 Toxicity:

Acute toxicity:

Identification	Concentration	Species	Genus
Methyl methacrylate	LC50 191 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 80-62-6	EC50 69 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-297-1	EC50 170 mg/L (96 h)	Selenastrum capricornutum	Algae
REACTION PRODUCTS OF 2-HYDROXYETHYL METHACRYLATE AND DIPHOSPHORPENT TOXIDE AND WATER (HEMA-PHOSPHATE)	LC50 >0.1 - 1 mg/L (96 h)		Fish
CAS: 948-065-2	EC50 >0.1 - 1 mg/L (48 h)		Crustacean
EC: Non-applicable	EC50 >0.1 - 1 mg/L (72 h)		Algae
1,4-dimethylpiperazine	LC50 94,6 mg/L (96 h)	Danio rerio	Fish
CAS: 106-58-1	EC50 100 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-412-0	EC50 100 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Methacrylic acid	LC50 Non-applicable		
CAS: 79-41-4	EC50 130 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-204-4	EC50 Non-applicable		
1,1'-(p-tolylimino)dipropen-2-ol	LC50 17 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 38668-48-3	EC50 28,8 mg/L (48 h)	Daphnia magna	Crustacean
EC: 254-075-1	EC50 245 mg/L (72 h)	Desmodesmus subspicatus	Algae
Cyclohexyl methacrylate	LC50 590 mg/L (96 h)	Danio rerio	Fish
CAS: 101-43-9	EC50 Non-applicable		
EC: 202-943-5	EC50 Non-applicable		

Chronic toxicity:

Identification	Concentration	Species	Genus
Methyl methacrylate	NOEC 9,4 mg/L	Danio rerio	Fish
CAS: 80-62-6 EC: 201-297-1	NOEC 37 mg/L	Daphnia magna	Crustacean
Methacrylic acid	NOEC Non-applicable		
CAS: 79-41-4 EC: 201-204-4	NOEC 53 mg/L	Daphnia magna	Crustacean
Cyclohexyl methacrylate	NOEC 9,4 mg/L	Danio rerio	Fish
CAS: 101-43-9 EC: 202-943-5	NOEC 37 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability	Biodegradability
Methyl methacrylate	BOD5 Non-applicable	Concentration 100 mg/L
CAS: 80-62-6	COD Non-applicable	Period 14 days
EC: 201-297-1	BOD5/COD Non-applicable	% Biodegradable 94,3 %
1,4-dimethylpiperazine	BOD5 Non-applicable	Concentration 100 mg/L
CAS: 106-58-1	COD Non-applicable	Period 28 days
EC: 203-412-0	BOD5/COD Non-applicable	% Biodegradable 5,6 %
Methacrylic acid	BOD5 Non-applicable	Concentration 3 mg/L
CAS: 79-41-4	COD Non-applicable	Period 28 days
EC: 201-204-4	BOD5/COD Non-applicable	% Biodegradable 86 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential
Methyl methacrylate	BCF 7
CAS: 80-62-6	Pow Log 1.38
EC: 201-297-1	Potential Low

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Bioaccumulation potential	
1,4-dimethylpiperazine	BCF		
CAS: 106-58-1	Pow Log		-0.26
EC: 203-412-0	Potential		
Methacrylic acid	BCF		2
CAS: 79-41-4	Pow Log		
EC: 201-204-4	Potential		Low

12.4 Mobility in soil:

Identification	Absorption/desorption			Volatility
Methyl methacrylate	Koc	Non-applicable	Henry	Non-applicable
CAS: 80-62-6	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 201-297-1	Surface tension	2,551E-2 N/m (25 °C)	Moist soil	Non-applicable
1,4-dimethylpiperazine	Koc	49	Henry	Non-applicable
CAS: 106-58-1	Conclusion	Very High	Dry soil	Non-applicable
EC: 203-412-0	Surface tension	Non-applicable	Moist soil	Non-applicable
Methacrylic acid	Koc	25	Henry	3,9E-2 Pa·m ³ /mol
CAS: 79-41-4	Conclusion	Very High	Dry soil	Yes
EC: 201-204-4	Surface tension	2,912E-2 N/m (25 °C)	Moist soil	Yes
1,1'-(p-tolylimino)dipropan-2-ol	Koc	10	Henry	3,98E-5 Pa·m ³ /mol
CAS: 38668-48-3	Conclusion	Very High	Dry soil	No
EC: 254-075-1	Surface tension	Non-applicable	Moist soil	No

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product fails to meet the criteria.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

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	Dangerous

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

HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute 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-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 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 2021 and RID 2021:

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SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 UN number or ID number:** UN2924
- 14.2 UN proper shipping name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methyl methacrylate; 1,4-dimethylpiperazine)
- 14.3 Transport hazard class(es):** 3
- Labels:** 3, 8
- 14.4 Packing group:** I
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user**
 - Special regulations: 274
 - Tunnel restriction code: C/E
 - Physico-Chemical properties: see section 9
 - Limited quantities: 0
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 40-20:



- 14.1 UN number or ID number:** UN2924
- 14.2 UN proper shipping name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methyl methacrylate; 1,4-dimethylpiperazine)
- 14.3 Transport hazard class(es):** 3
- Labels:** 3, 8
- 14.4 Packing group:** I
- 14.5 Marine pollutant:** No
- 14.6 Special precautions for user**
 - Special regulations: 274
 - EmS Codes: F-E, S-C
 - Physico-Chemical properties: see section 9
 - Limited quantities: 0
 - Segregation group: Non-applicable
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:



- 14.1 UN number or ID number:** UN2924
- 14.2 UN proper shipping name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methyl methacrylate; 1,4-dimethylpiperazine)
- 14.3 Transport hazard class(es):** 3
- Labels:** 3, 8
- 14.4 Packing group:** I
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user**
 - Physico-Chemical properties: see section 9
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

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SECTION 15: REGULATORY INFORMATION (continued)

Section	Description	Lower-tier requirements	Upper-tier requirements
P5a	FLAMMABLE LIQUIDS	10	50

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:

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.:

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Precautionary statements

Texts of the legislative phrases mentioned in section 2:

- H314: Causes severe skin burns and eye damage.
- H317: May cause an allergic skin reaction.
- H335: May cause respiratory irritation.
- H318: Causes serious eye damage.
- H302: Harmful if swallowed.
- H224: Extremely flammable liquid and vapour.

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: H300 - Fatal if swallowed.
- 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 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. Liq. 2: H225 - Highly flammable liquid and vapour.
- Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.
- Skin Corr. 1C: 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 Corr. 1C: Calculation method
- Skin Sens. 1: Calculation method
- STOT SE 3: Calculation method
- Eye Dam. 1: Calculation method
- Acute Tox. 4: Calculation method
- Flam. Liq. 1: Calculation method (2.6.4.3)

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SECTION 16: OTHER INFORMATION (continued)**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:

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 -