



Safety data sheet



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

KLEJ DO LUSTEREK I ANTEN SAMOCHODOWYCH - ADHESIVE FOR REAR VIEW MIRRORS

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

- 1.1 Product identifier:** KLEJ DO LUSTEREK I ANTEN SAMOCHODOWYCH - ADHESIVE FOR REAR VIEW MIRRORS
- Other means of identification:**
- UFI:** T198-E6YX-7000-VD51
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- Relevant uses: Adhesive for rear view mirrors.
- 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:**
- Agencja Handlowa BOLL Wojciech Dalewski Spółka Jawna
ul. Chemiczna 3
65-713 Zielona Góra - Polska
Phone: 68 451 99 99 - Fax: 68 451 99 00
huszcza@boll.pl
- 1.4 Emergency telephone number:**

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.
- Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412
Eye Dam. 1: Serious eye damage, Category 1, H318
Skin Irrit. 2: Skin irritation, Category 2, H315
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:**
- H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.
H412 - Harmful to aquatic life with long lasting effects.
- Precautionary statements:**
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash hands thoroughly after handling
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.
P302+P352: IF ON SKIN: Wash with plenty of water.
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.
P310: Immediately call a poison center/doctor.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
- UFI:** T198-E6YX-7000-VD51
- Additional labeling:**

** Changes with regards to the previous version

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Hazard ingredients (label): HYDROXYPROPYL METHACRYLATE; 2-PROPENOIC ACID, 2-CARBOXYETHYL ESTER; ISOBORNOLMETHACRYLATE; PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE; ALPHA,ALPHADIMETHYLBENZYL HYDROPEROXIDE; 1-ACETYL-2-PHENYLHYDRAZINE

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: a mixture of organic and auxiliary substances

Components:

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

Identification	Chemical name/Classification	Concentration
CAS: 41637-38-1 EC: 609-946-4 Index: Non-applicable REACH: 01-2119980659-17-XXXX	Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 4: H413	10 - <30 %
CAS: 27813-02-1 EC: 248-666-3 Index: Non-applicable REACH: 01-2119490226-37-XXXX	Methacrylic acid, monoester with propane-1,2-diol⁽¹⁾ Self-classified Regulation 1272/2008 Eye Irrit. 2: H319; Skin Sens. 1: H317 - Warning	10 - <30 %
CAS: 24615-84-7 EC: 246-359-9 Index: Non-applicable REACH: Non-applicable	2-carboxyethyl acrylate⁽¹⁾ Self-classified Regulation 1272/2008 Eye Irrit. 2: H319; Met. Corr. 1: H290; Skin Irrit. 2: H315 - Warning	3 - <10 %
CAS: 7534-94-3 EC: 231-403-1 Index: Non-applicable REACH: Non-applicable	Metakrylan ekso-1,7,7-trimetylobicyklo[2.2.1] hept-2-ylu [metakrylan izobornylu]⁽¹⁾ ATP CLP00 Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning	3 - <10 %
CAS: 84170-74-1 EC: 617-546-6 Index: Non-applicable REACH: 01-2119970213-43-XXXX	Neopentyl glycol propoxylate diacrylate⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411; Skin Sens. 1A: H317 - Warning	1 - <3 %
CAS: 79-10-7 EC: 201-177-9 Index: 607-061-00-8 REACH: 01-2119452449-31-XXXX	acrylic acid⁽¹⁾ ATP CLP00 Regulation 1272/2008 Acute Tox. 4: H302+H312+H332; Aquatic Acute 1: H400; Flam. Liq. 3: H226; Skin Corr. 1A: H314 - Danger	1 - <3 %
CAS: 80-15-9 EC: 201-254-7 Index: 617-002-00-8 REACH: 01-2119475796-19-XXXX	A,α-dimethylbenzyl hydroperoxide⁽¹⁾ ATP CLP00 Regulation 1272/2008 Acute Tox. 3: H331; Acute Tox. 4: H302+H312; Aquatic Chronic 2: H411; Org. Perox. E: H242; Skin Corr. 1B: H314; STOT RE 2: H373 - Danger	0,3 - <1 %
CAS: 114-83-0 EC: 204-055-3 Index: Non-applicable REACH: Non-applicable	1-Acetylo-2-fenylohydrazyna⁽¹⁾ Self-classified Regulation 1272/2008 Acute Tox. 3: H301; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Danger	<0,3 %

⁽¹⁾ Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2020/878

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

Other information:

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS ** (continued)

Identification	Specific concentration limit
Metakrylan ekso-1,7,7-trimetylobicyklo[2.2.1] hept-2-ylu [metakrylan izobornylu] CAS: 7534-94-3 EC: 231-403-1	% (w/w) >=10: STOT SE 3 - H335
acrylic acid CAS: 79-10-7 EC: 201-177-9	% (w/w) >=1: STOT SE 3 - H335
A,α-dimethylbenzyl hydroperoxide CAS: 80-15-9 EC: 201-254-7	% (w/w) >=90: Org. Perox. E - H242 1<= % (w/w) <90: Org. Perox. F - H242 % (w/w) >=10: Skin Corr. 1B - H314 3<= % (w/w) <10: Skin Irrit. 2 - H315 % (w/w) >=3: Eye Dam. 1 - H318 1<= % (w/w) <3: Eye Irrit. 2 - H319 % (w/w) >=1: STOT SE 3 - H335

** Changes with regards to the previous version

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:

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:

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

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.

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SECTION 5: FIREFIGHTING MEASURES (continued)

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:

HEATING MAY CAUSE A FIRE. 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 spill 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. Destroy 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:

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

AVOID ANY KIND OF HEATING. Devices and systems must comply with the essential safety and health requirements and, with the minimum requirements for improving the health and safety protection of workers. Consult section 10 for conditions and materials that should be avoided. KEEP ONLY IN ORIGINAL CONTAINER.

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.: 10 °C

Maximum Temp.: 20 °C

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SECTION 7: HANDLING AND STORAGE (continued)

Maximum time: 24 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)	10 ppm	29 mg/m ³
acrylic acid CAS: 79-10-7 EC: 201-177-9	IOELV (STEL)	20 ppm	59 mg/m ³

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid CAS: 41637-38-1 EC: 609-946-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	3,52 mg/m ³	Non-applicable
Methacrylic acid, monoester with propane-1,2-diol CAS: 27813-02-1 EC: 248-666-3	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	14,7 mg/m ³	Non-applicable
Metakrylan ekso-1,7,7-trimetylobicyklo[2.2.1] hept-2-ylu [metakrylan izobornylu] CAS: 7534-94-3 EC: 231-403-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,35 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,22 mg/m ³	Non-applicable
Neopentyl glycol propoxylate diacrylate CAS: 84170-74-1 EC: 617-546-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	46,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	32,9 mg/m ³	Non-applicable
acrylic acid CAS: 79-10-7 EC: 201-177-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	30 mg/m ³	30 mg/m ³	30 mg/m ³	30 mg/m ³
A,α-dimethylbenzyl hydroperoxide CAS: 80-15-9 EC: 201-254-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	6 mg/m ³	Non-applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid CAS: 41637-38-1 EC: 609-946-4	Oral	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,87 mg/m ³	Non-applicable
Methacrylic acid, monoester with propane-1,2-diol CAS: 27813-02-1 EC: 248-666-3	Oral	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	8,8 mg/m ³	Non-applicable

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Metakrylan ekso-1,7,7-trimetylobicyklo[2.2.1] hept-2-ylu [metakrylan izobornylu] CAS: 7534-94-3 EC: 231-403-1	Oral	Non-applicable	Non-applicable	0,21 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,21 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,36 mg/m ³	Non-applicable
acrylic acid CAS: 79-10-7 EC: 201-177-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	3,6 mg/m ³	3,6 mg/m ³	3,6 mg/m ³	3,6 mg/m ³

PNEC:



Identification				
Methacrylic acid, monoester with propane-1,2-diol CAS: 27813-02-1 EC: 248-666-3	STP	10 mg/L	Fresh water	0,904 mg/L
	Soil	0,727 mg/kg	Marine water	0,904 mg/L
	Intermittent	0,972 mg/L	Sediment (Fresh water)	6,28 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	6,28 mg/kg
Metakrylan ekso-1,7,7-trimetylobicyklo[2.2.1] hept-2-ylu [metakrylan izobornylu] CAS: 7534-94-3 EC: 231-403-1	STP	2,45 mg/L	Fresh water	0,00233 mg/L
	Soil	0,239 mg/kg	Marine water	0,000233 mg/L
	Intermittent	0,0179 mg/L	Sediment (Fresh water)	1,2 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,12 mg/kg
Neopentyl glycol propoxylate diacrylate CAS: 84170-74-1 EC: 617-546-6	STP	0,1 mg/L	Fresh water	0,003 mg/L
	Soil	0,011 mg/kg	Marine water	0 mg/L
	Intermittent	0,027 mg/L	Sediment (Fresh water)	0,064 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,006 mg/kg
acrylic acid CAS: 79-10-7 EC: 201-177-9	STP	0,9 mg/L	Fresh water	0,003 mg/L
	Soil	1 mg/kg	Marine water	0 mg/L
	Intermittent	0,001 mg/L	Sediment (Fresh water)	0,024 mg/kg
	Oral	0,03 g/kg	Sediment (Marine water)	0,002 mg/kg
A,α-dimethylbenzyl hydroperoxide CAS: 80-15-9 EC: 201-254-7	STP	0,35 mg/L	Fresh water	0,003 mg/L
	Soil	0,003 mg/kg	Marine water	0 mg/L
	Intermittent	0,031 mg/L	Sediment (Fresh water)	0,023 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,002 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		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: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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	Panoramic glasses against splash/projections.		EN 166:2002 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
	Work clothing			Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes		EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

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

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: Sticky
 Colour:  Amber
 Odour: Acre
 Odour threshold: Non-applicable *

Volatility:

Boiling point at atmospheric pressure: Non-applicable *
 Vapour pressure at 20 °C: 13 Pa
 Vapour pressure at 50 °C: Non-applicable *
 Evaporation rate at 20 °C: Non-applicable *

Product description:

Density at 20 °C: 1080 kg/m³
 Relative density at 20 °C: 1,08

*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)

Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	2300 mm ² /s
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	4 - 6
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:	Soluble with difficulty
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	>100 °C
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
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 classes:

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 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	Heating may cause a fire or explosion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

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SECTION 10: STABILITY AND REACTIVITY (continued)

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Precaution	Avoid alkalines, heavy metals, reducing agents, peroxide accelerating agents

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 : 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 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: acrylic acid (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. However, it does contain substances which are classified as dangerous due to repetitive exposure. 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.

** Changes with regards to the previous version

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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Methacrylic acid, monoester with propane-1,2-diol CAS: 27813-02-1 EC: 248-666-3	LD50 oral	11200 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
2-carboxyethyl acrylate CAS: 24615-84-7 EC: 246-359-9	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
Metakrylan ekso-1,7,7-trimetylobicyklo[2.2.1] hept-2-ylu [metakrylan izobornylu] CAS: 7534-94-3 EC: 231-403-1	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
Neopentyl glycol propoxylate diacrylate CAS: 84170-74-1 EC: 617-546-6	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
acrylic acid CAS: 79-10-7 EC: 201-177-9	LD50 oral	500 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
	LC50 inhalation	11 mg/L (4 h)	Rat
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid CAS: 41637-38-1 EC: 609-946-4	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	>20 mg/L	
1-Acetylo-2-fenylhydrazyna CAS: 114-83-0 EC: 204-055-3	LD50 oral	270 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	Non-applicable	
A,a-dimethylbenzyl hydroperoxide CAS: 80-15-9 EC: 201-254-7	LD50 oral	600 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation	3 mg/L (ATEi)	

11.2 Information on other hazards:

Endocrine disrupting properties

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

Other information

Non-applicable

** Changes with regards to the previous version

SECTION 12: ECOLOGICAL INFORMATION

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
Methacrylic acid, monoester with propane-1,2-diol CAS: 27813-02-1 EC: 248-666-3	LC50	833 mg/L (96 h)	Scophthalmus maximus	Fish
	EC50	210 mg/L (48 h)	Acartia tonsa	Crustacean
	EC50	Non-applicable		
Neopentyl glycol propoxylate diacrylate CAS: 84170-74-1 EC: 617-546-6	LC50	2,7 mg/L (96 h)	Danio rerio	Fish
	EC50	37 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	3,4 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Species	Genus
acrylic acid CAS: 79-10-7 EC: 201-177-9	LC50	27 mg/L (96 h)	Salmo gairdneri	Fish
	EC50	54 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	0,13 mg/L (72 h)	Scenedesmus subspicatus	Algae
A,α-dimethylbenzyl hydroperoxide CAS: 80-15-9 EC: 201-254-7	LC50	3,9 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	18,84 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	3,1 mg/L (72 h)	Scenedesmus subspicatus	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
Methacrylic acid, monoester with propane-1,2-diol CAS: 27813-02-1 EC: 248-666-3	NOEC	Non-applicable		
	NOEC	45,2 mg/L	Daphnia magna	Crustacean
acrylic acid CAS: 79-10-7 EC: 201-177-9	NOEC	Non-applicable		
	NOEC	19 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
Methacrylic acid, monoester with propane-1,2-diol CAS: 27813-02-1 EC: 248-666-3	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	Non-applicable
	BOD5/COD	Non-applicable	% Biodegradable	81 %
Neopentyl glycol propoxylate diacrylate CAS: 84170-74-1 EC: 617-546-6	BOD5	Non-applicable	Concentration	2 mg/L
	COD	Non-applicable	Period	56 days
	BOD5/COD	Non-applicable	% Biodegradable	70 %
acrylic acid CAS: 79-10-7 EC: 201-177-9	BOD5	0,29 g O ₂ /g	Concentration	100 mg/L
	COD	1,41 g O ₂ /g	Period	14 days
	BOD5/COD	0,21	% Biodegradable	67,8 %
A,α-dimethylbenzyl hydroperoxide CAS: 80-15-9 EC: 201-254-7	BOD5	Non-applicable	Concentration	11 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	3 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
Methacrylic acid, monoester with propane-1,2-diol CAS: 27813-02-1 EC: 248-666-3	BCF	3
	Pow Log	0.97
	Potential	Low
acrylic acid CAS: 79-10-7 EC: 201-177-9	BCF	1
	Pow Log	0.35
	Potential	Low
A,α-dimethylbenzyl hydroperoxide CAS: 80-15-9 EC: 201-254-7	BCF	9
	Pow Log	2.16
	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Methacrylic acid, monoester with propane-1,2-diol CAS: 27813-02-1 EC: 248-666-3	Koc	80	Henry	9E-4 Pa·m ³ /mol
	Conclusion	High	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
acrylic acid CAS: 79-10-7 EC: 201-177-9	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	2,85E-2 N/m (25 °C)	Moist soil	Non-applicable

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Absorption/desorption		Volatility	
A, α -dimethylbenzyl hydroperoxide CAS: 80-15-9 EC: 201-254-7	Koc	40	Henry	2,2E-2 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	1,484E-2 N/m (25 °C)	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):

HP14 Ecotoxic, 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 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

This product is not regulated for transport (ADR/RID,IMDG,IATA)

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

Seveso III:

Non-applicable

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

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SECTION 15: REGULATORY INFORMATION (continued)

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.:

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11):

- New declared substances
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid (41637-38-1)
- Removed substances
(1-metyloetylideno) bis (4,1-fenylenooksy2,1-etanodiyl) bismetakrylan (24448-20-2)

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

- Precautionary statements
- Supplementary information

Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation.
H318: Causes serious eye damage.
H335: May cause respiratory irritation.
H412: Harmful to aquatic life with long lasting effects.
H317: May cause an allergic skin reaction.

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. 3: H301 - Toxic if swallowed.
Acute Tox. 3: H331 - Toxic if inhaled.
Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin.
Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Aquatic Chronic 4: H413 - May cause long lasting harmful effects to aquatic life.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Met. Corr. 1: H290 - May be corrosive to metals.
Org. Perox. E: H242 - Heating may cause a fire.
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.
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.
STOT SE 3: H335 - May cause respiratory irritation.

Classification procedure:

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SECTION 16: OTHER INFORMATION (continued)

Skin Irrit. 2: Calculation method
Eye Dam. 1: Calculation method
STOT SE 3: Calculation method
Aquatic Chronic 3: Calculation method
Skin Sens. 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:

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 -