

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

Version: 01


Date of compilation: 13.05.2025

Revision: -

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product Name:	Kinetics SHIELD BioBased base
Item number:	KBB01
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Identified uses	Cosmetic.
Uses advised against	Manufacture of food products.
1.3. Details of the supplier of the safety data sheet	
Responsible person:	Kinetics Nail Systems, Ltd 3K Kurzemes pr., Riga, Latvia, LV-1067, Latvia TEL: +(371) 6 7295 260 FAX: +(371) 6 7873 525 e-mail: info@kineticsbeauty.com web: www.kineticsbeauty.com E-mail of person responsible for Product Safety Data Sheet: info@kineticsbeauty.com
1.4. Emergency telephone number	
	EU:112 Emergency telephone for other regions to be filled out by local business

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture	
According to regulation (EC) No 1272/2008:	Skin Irrit. 2 (H315) – Skin corrosion/ irritation, Hazard Category 2. Skin Sens. 1A (H317) – Sensitisation - Skin, hazard category 1A. Eye Irrit. 2 (H319) – Serious eye damage/eye irritation, Hazard Category 2. STOT SE 3 (H335) – Specific target organ toxicity — Single exposure, Hazard Category 3, Respiratory tract irritation.
Important adverse physicochemical, human health and environmental effects:	Causes skin irritation. May cause an allergic skin reaction Causes serious eye irritation. May cause respiratory irritation.
2.2. Label elements	
According to regulation (EC) No 1272/2008:	 <p>Warning</p> <p>H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.</p>

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	<p>Contains: Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate; Ethylene phosphite; Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate; Methacrylic acid, monoester with propane-1,2-diol.</p> <p>P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P261 Avoid breathing mist/vapours/ spray. P264 Wash hands/ affected body parts thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/eye protection. P302+P352 IF ON SKIN: Wash with plenty of water/soap. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/ attention. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container to in accordance with local/ regional/ national/ international regulation.</p>
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2.3. Other hazards

The product does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH (Regulation (EC) No 1907/2006).

Toxicological information/Ecological information: Based on available data the mixture does not contain ingredients considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration of 0.1% or more.

See section 11 for more detailed information on health effects and symptoms.

SECTION 3: Composition/information on ingredients

3.1. Substances		Not relevant.				
3.2. Mixtures						
Ingredient name [INCI]	INDEX No.	CAS No.	EINECS/ EC No.	Conc. (%)	Classification Regulation (EC) 1272/2008 (CLP)	Type
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate [ISOBORNYL METHACRYLATE]	N/A	7534-94-3	231-403-1	15-20	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412	[1]
BIS-HEA POLY(1,4-BUTANEDIOL)-9/IPDI COPOLYMER	N/A	N/A	N/A	5-10	Not classified	
Ethylene phosphite [ETHYLENE PHOSPHITE]	N/A	1003-11-8	621-992-7	1-5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate [ISOBORNYL ACRYLATE]	607-756-00-6	5888-33-5	227-561-6	1-3	Skin Sens. 1A, H317	[1]
Methacrylic acid, monoester with propane-1,2-diol [HYDROXYPROPYL METHACRYLATE]	N/A	27813-02-1	248-666-3	0.1-1	Skin Sens. 1, H317 Eye Irrit. 2, H319	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

See section 16 for the full text of the R and H phrases declared above.

Occupational exposure limits, if available, are listed in section 8.

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] PBT-substance
- [4] vPvB-substance
- [5] SEVESO SUBSTANCE

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice:	Remove contaminated clothing.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If necessary, call a poison centre or physician. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
Skin contact:	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms persist.
Eye contact:	Flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Obtain medical attention if irritation persists.
Ingestion:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

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

Eye contact:	May causes serious eye irritation. Symptoms might be as follows: Conjunctivitis, lacrimation, redness, irritation or pain, reversible cornea damage and swelling of eyes.
Inhalation:	May cause nose, throat and respiratory tract irritation. Symptoms might be as follows: Irritation, coughing, shortness of breath, dizziness, headache or nausea, fatigue, unconsciousness.
Skin contact:	Irritating to the skin, might cause skin sensitization. Symptoms might be as follows: Redness, inflammation, rash, urticaria, pain or irritation and dermatitis.
Ingestion:	No significant effects or critical hazards known.

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

Specific treatments:	Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.
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See section 11 for more detailed information on health effects and symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

<i>Suitable extinguishing media:</i>	Water spray, foam, dry chemical, carbon dioxide.
<i>Unsuitable extinguishing media:</i>	Do not use full power water jet.

5.2. Special hazards arising from the substance or mixture

	Hazards from the substance or mixture: In a fire or if heated, a pressure increase will occur and the container may burst. Hazardous decomposition products may include: Carbon monoxide (CO) Carbon dioxide (CO ₂)
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	Other unidentified organic and inorganic substances.
5.3. Advice for firefighters	
	If water is used to cool closed containers to prevent pressure build-up, fog nozzles are preferred. Full protective equipment, including self-contained breathing apparatus is needed to protect fire-fighters from exposure to coating's hazardous ingredients and hazardous decomposition products.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
<i>For non-emergency personnel:</i>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<i>For emergency responders:</i>	If specialised clothing is required to deal with the spillage, take note of any information in Section "Exposure controls/personal protection" on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2. Environmental precautions	
	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3. Methods and material for containment and cleaning up	
<i>Small spill:</i>	Stop the leak, if possible, to do so without a risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
<i>Large spill:</i>	Stop the leak, if possible, to do so without a risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4. Reference to other sections	
	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	
Protective measures:	Put on appropriate personal protective equipment (see Section "Exposure controls/ personal protection"). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene:	Good industrial hygiene practices should be observed. Provide sufficient air exchange and/or exhaust in work rooms. Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. Take off all contaminated clothing immediately.

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	Use of dispensing equipment is recommended to minimise the risk of skin or eye contact. See also Section 8 for additional information on hygiene measures.
7.2. Conditions for safe storage, including any incompatibilities	
Storage:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Empty container may retain product residues (vapour or liquid).
7.3. Specific end use(s)	
Industrial sector specific solutions:	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	
Occupational exposure limits:	Limit values are laid down throughout the EU, but each Member State establishes its own national OELs, often going beyond EU legislation. OELs are set by competent national authorities and other relevant institutions. <u>EU (IOELV):</u> <i>Not available.</i> <u>United Kingdom (EH40):</u> <i>Not available.</i> <u>Latvia (AER, reg.325/2011):</u> <i>Not available.</i> <u>Germany (TRGS-900):</u> <i>Not available.</i>
Recommended monitoring procedures:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.
8.2. Exposure controls	
Appropriate engineering Controls:	Use only with adequate ventilation. If user operations generate fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits - comply with the Occupational Exposure Limits found in National Guidance documents.
<u>Individual protection measures:</u>	
<u>Hygiene measures:</u>	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
<u>Respiratory protection:</u>	Ensure adequate ventilation. An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area.
<u>Eye/face protection:</u>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists

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	or gases. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection:	
Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard (EN 374) should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. If signs of wear and tear are noticed, then the gloves should be replaced.
Body protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Environmental exposure controls:	
	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	
a) Physical state	Liquid.
b) Colour	Transparent (blue in lamp).
c) Odour	Not available.
d) Melting point/freezing point	Not available.
e) Initial boiling point and boiling range	Not available.
f) Flammability	Not available.
g) Lower and upper explosion limit	Not available.
h) Flash point	Not available.
i) Auto-ignition temperature	Not available.
j) Decomposition temperature	Not available.
k) pH	Not available.
l) Kinematic viscosity	Not available.
m) Solubility (-ies)	Not available.
n) Partition coefficient n-octanol/water (log value)	Not available.
o) Vapour pressure	Not available.
p) Density and/or relative density	Not available.
q) Relative vapour density	Not available.
r) Particle characteristics	Not available.
9.2. Other information	
9.2.1. Information with regard to physical hazard classes	
	Not available
9.2.2. Other safety characteristics	
Impurity	Not available
Explosive properties	Not available.
Oxidising properties	Not available

SECTION 10: Stability and reactivity

10.1. Reactivity	No hazardous reactions if stored and handled as prescribed/indicated.
10.2. Chemical stability	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	Stable under recommended storage conditions.
10.4. Conditions to avoid	Sun-Light, un-clean conditions to avoid during storage.
10.5. Incompatible materials	None known.
10.6. Hazardous decomposition products	Fumes produced when heated to decomposition may include: Toxic carbon monoxide, carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008				
a) Acute toxicity				
Data on the product or its components:				
Mixture/ Ingredient name	Result	Species	Dose	Exposure
Kinetics SHIELD BioBased base KBB01	ATE (Oral)	-	≥ 10 000 mg/kg bw	-
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate [ISOBORNYL METHACRYLATE]	LD ₅₀ Oral	Rat	3.16 mL/kg bw	-
	LD ₅₀ Dermal	Rabbit	> 3 000 mg/kg bw	-
Ethylene phosphite [ETHYLENE PHOSPHITE]	ATE Oral	-	500 mg/kg bw	-
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate [ISOBORNYL ACRYLATE]	LD ₅₀ Oral	Rat	5 750 mg/kg bw	-
	LD ₅₀ Dermal	Rabbit	> 3 000 mg/kg bw	-
Methacrylic acid, monoester with propane-1,2-diol [HYDROXYPROPYL METHACRYLATE]	LD ₅₀ Oral	Rat	≥ 2 000 mg/kg bw	-
	LD ₅₀ Dermal	Rabbit	> 5 000 mg/kg bw	-
Conclusion/Summary:	According to classification method described in CLP regulation, this product is NOT classified as harmful or toxic if swallowed.			
b) Serious eye damage/irritation				
Data on the product or its components:				
Mixture/ Ingredient name	Effect			
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate [ISOBORNYL METHACRYLATE]	Slightly irritating.			
Ethylene phosphite [ETHYLENE PHOSPHITE]	Irritating.			
Methacrylic acid, monoester with propane-1,2-diol [HYDROXYPROPYL METHACRYLATE]	Category 2B (mildly irritating to eyes) based on GHS criteria. Species: Rabbit. Amount applied (volume): 0.1 ml. Duration of treatment / exposure: Till end of observation period Observation period (in vivo): 24, 48, 72 h, 4, 5, 7 days			

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	Guideline: Appraisal of the safety of Chemicals in foods, drugs and cosmetics by staff of the Division of Pharmacology, FDA acc. to Draize.				
	Irritation parameter	Time point	Score	Max score	Reversibility
	Cornea opacity score	24/48/72 h	0-1	4	Fully reversible within: 4 days
	Iris score	24/48/72 h	0	2	No indication of irritation
	Conjunctivae score	24/48/72 h	0.33-2	3	Fully reversible within: 4 days
	Chemosis score	24/48/72 h	0-0.3	4	Fully reversible within: 48 hours
Conclusion/Summary:	According to classification method described in CLP regulation, this product is classified as mixture that causes serious eye irritation. (Eye Irrit. 2, H319).				
c) Skin corrosion/irritation					
Data on the product or its components:					
	Mixture/ Ingredient name	Effect			
	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate [ISOBORNYL METHACRYLATE]	Irritating.			
	Ethylene phosphite [ETHYLENE PHOSPHITE]	Irritating.			
Conclusion/Summary:	According to classification method described in CLP regulation, this product is classified as irritating to the skin (Skin Irrit. 2, H315).				
d) Respiratory or skin sensitisation					
Data on the product or its components:					
	Mixture/ Ingredient name	Effect			
	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate [ISOBORNYL ACRYLATE]	Category 1A (skin sensitising). Species: Mouse Guideline: OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)			
	Methacrylic acid, monoester with propane-1,2-diol [HYDROXYPROPYL METHACRYLATE]	Skin sensitizer (May cause an allergic skin reaction).			
Conclusion/Summary:	According to classification method described in CLP regulation, this product is classified as very sensitising to the skin (Skin Sens. 1A, H317).				
e) Germ cell mutagenicity					
Data on the product or its components:					
	No data on adverse effects on humans or animals are available.				
Conclusion/Summary:	Based on available data, classification criteria not met.				
f) Carcinogenicity					
Data on the product or its components:					
	No data on adverse effects on humans or animals are available.				
Conclusion/Summary:	Based on available data, classification criteria not met.				
g) Reproductive toxicity					
Data on the product or its components:					
	No data on adverse effects on humans or animals are available.				

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Conclusion/Summary:	Based on available data, classification criteria not met.
h) Specific target organ toxicity - Single exposure	
Data on the product or its components:	
Mixture/ Ingredient name	Effect
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate [ISOBORNYL METHACRYLATE]	Hazard category: Specific target organ toxicity - Single Exposure, Category 3 Hazard statement: May cause respiratory irritation. Affected organs: respiratory tract. Route of exposure: inhalation.
Ethylene phosphite [ETHYLENE PHOSPHITE]	Hazard category: Specific target organ toxicity - Single Exposure, Category 3 Hazard statement: May cause respiratory irritation. Affected organs: respiratory tract Route of exposure: inhalation
Conclusion/Summary:	According to classification method described in CLP regulation, product is classified as respiratory tract irritant (STOT RE 3, H335).
j) Specific target organ toxicity - Repeated exposure	
Data on the product or its components:	
	No data on adverse effects on humans or animals are available.
Conclusion/Summary:	Based on available data, classification criteria not met.
i) Aspiration hazard	
Data on the product or its components:	
	No data on adverse effects on humans or animals are available.
Conclusion/Summary:	Based on available data, classification criteria not met.
Potential acute health effects	
Eye contact:	Irritating to the eyes.
Inhalation:	May cause nose, throat and respiratory tract irritation.
Skin contact:	Irritating to the skin, might cause skins sensitization.
Ingestion:	No significant effects or critical hazards known.
Symptoms related to the physical, chemical and toxicological characteristics	
Eye contact:	Conjunctivitis, lacrimation, redness, pain or irritation, reversible cornea damage and swelling and watering of the eyes.
Inhalation:	Irritation, coughing, shortness of breath, dizziness, headache or nausea, fatigue, unconsciousness.
Skin contact:	Redness, inflammation, rash, urticaria, pain or irritation, blistering and dermatitis.
Ingestion:	No significant effects or critical hazards known.
Delayed and immediate effects and also chronic effects from short and long term exposure	
Short term exposure:	
Potential immediate effects:	Not available.
Potential delayed effects:	Not available.
Long term exposure:	
Potential immediate effects:	Not available.
Potential delayed effects:	Not available.
11.2. Information on other hazards	
Endocrine disrupting properties	
Based on available data the mixture does not contain ingredients considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration of 0.1% or more.	

Other information	
	No additional information is available.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity

Data on the product or its components:

Mixture/ Ingredient name	Species	Water media type	Exposure	Dose	Effect conc.
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate [ISOBORNYL METHACRYLATE]	Fish - Danio rerio	freshwater	96 h	LC ₅₀	1.79 mg/L
	Crustaceans - Daphnia magna	freshwater	48 h	EC ₅₀	> 2.57 mg/L
	Crustaceans - Daphnia magna	freshwater	21 d	NOEC	0.233 mg/L
	Algae - Pseudokirchneriella subcapitata	freshwater	72 h	EC ₅₀	2.28 mg/L
Conclusion/Summary:	Based on available data, classification criteria not met.				

12.2. Persistence and degradability

Data on the product or its components:

Mixture/ Ingredient name	CAS no.	Degradability	Test method/ Guideline
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate [ISOBORNYL METHACRYLATE]	7534-94-3	Readily biodegradable. Degradation (CO ₂ evolution), 28 d: 70%	OECD Guideline 310 (Ready Biodegradability - CO ₂ in Sealed Vessels (Headspace Test))

12.3. Bioaccumulative potential

Data on the product or its components:

Mixture/ Ingredient name	Effect
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate [ISOBORNYL METHACRYLATE]	BCF: 37 dimensionless

12.4. Mobility in soil

Data on the product or its components:

Mixture/ Ingredient name	Effect
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate [ISOBORNYL METHACRYLATE]	Mean adsorption coefficient log <i>K_{oc}</i> of 3.7.

12.5. Results of PBT and vPvB assessment

	Regarding all available data on biotic and abiotic degradation, bioaccumulation and toxicity it can be stated that the substance does not fulfil the PBT criteria (not PBT) and not the vPvB criteria (not vPvB).
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12.6. Endocrine disrupting properties

Data on the product or its components:

	No data on adverse effects aquatic organisms are available.
Conclusion/Summary:	Based on available data the mixture does not contain ingredients considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration of 0.1% or more.

12.7. Other adverse effects	
	No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:	
Methods of disposal:	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste:	Within the present knowledge of the supplier, this product IS regarded as hazardous waste, as defined by Directive 2008/98/EC and EU regulation 1357/2014.
European waste catalogue (EWC):	20 01 27* paint, inks, adhesives and resins containing dangerous substances Note: Always check the given waste codes according to the actual conditions of manufacturing, formulation or use.
Packaging:	
Methods of disposal:	The generation of waste should be avoided or minimised wherever possible. Special precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
Special precautions:	This material and its container must be disposed of in a safe way.

SECTION 14: Transport information

This preparation is not classified as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).				
	ADR	RID	IMDG	IATA
14.1. UN number or ID number	-	-	-	-
-	-			
14.3. Transport hazard class(es)	-	-	-	-
14.4. Packing group	-	-	-	-
14.5. Environmental hazards	-	-	-	-
14.6. Special precautions for user	-	-	-	-
14.7. Maritime transport in bulk according to IMO instruments	Not applicable.			

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

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<p>ADR - the European Agreement concerning the International Carriage of Dangerous Goods by Road, concluded at Geneva on 30 September 1957, as amended. RID - the Regulations concerning the International Carriage of Dangerous Goods by Rail, appearing as Appendix C to the Convention concerning International Carriage by Rail (COTIF) concluded at Vilnius on 3 June 1999, as amended. ADN - the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways concluded at Geneva on 26 May 2000, as amended. IMDG Code - International Maritime Dangerous Goods Code. IATA/ICAO: ICAO - International Civil Aviation Organization. IATA - International Air Transport Association. MARPOL 73/78 - International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. COUNCIL DIRECTIVE 1999/13/EC of 11 March 1999 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations, with amendments (2004/42/CE). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives (Text with EEA relevance). Commission Regulation (EU) No 1357/2014 of 18 December 2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives Text with EEA relevance. REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH):</p>	
Annex XIV - List of substances subject to authorization:	Substances of very high concern: None of the components are listed.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:	Not applicable.
15.2. Chemical safety assessment	
A Chemical Safety Assessment has not been carried out.	

SECTION 16: Other information

Abbreviations and acronyms:	
	<p>CLP: Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008] ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road RID: International Rule for Transport of Dangerous Substances by Railway IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association CAS: Chemical Abstracts Service EINECS: European Inventory of Existing Commercial Chemical Substances LC50: Median lethal concentration LD50: Median lethal dose RD50: Exposure concentration producing a 50% respiratory rate decrease. REACH: Registration, Evaluation and Authorisation of Chemicals PBT: Persistent, bio-accumulative and toxic vPvB: Very persistent, very bio-accumulative bw: Body weight</p>
Full text of classifications and H statements [CLP/ GHS]:	
	<p>Acute Tox. 4, Acute toxicity (oral), Hazard Category 4; H302 Harmful if swallowed. Skin Irrit. 2, Skin corrosion/ irritation, Hazard Category 2; H315 Causes skin irritation. Skin Sens. 1A, 1 - Sensitisation — Skin, Hazard Category 1A, 1; H317 May cause an allergic skin reaction. Eye Irrit. 2, Serious eye damage/eye irritation, Hazard Category 2; H319 Causes serious eye irritation.</p>

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	STOT SE 3, Specific target organ toxicity — Single exposure, Hazard Category 3, Respiratory tract irritation; H335 May cause respiratory irritation. Aquatic Chronic 3, Long-term (chronic) aquatic hazard, Category 3; H412 Harmful to aquatic life with long lasting effects.
Classification system:	
	Classification for health effects: conventional (calculation) method is used or generic/ specific concentration limits: Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Irrit. 2, H319 STOT SE 3, H335 Classification for physico-chemical effects: Not applicable. Classification for environmental effects: conventional (calculation) method is used. Not applicable.
Training advice:	
	In addition to health, safety and environmental training programs for their workers, companies must ensure that workers read, understand and apply the requirements of this SDS.
Used literature:	
	European Chemical Agency's homepage (http://echa.europa.eu/). Safety data sheets of individual components.
DISCLAIMER OF LIABILITY:	
	The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or method of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.

END OF SAFETY DATA SHEET