

## MATERIAL SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe

Version : 01

Date of issue:

20.12.2022


Date of revision:

-

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

<b>1.1. Product identifier</b>	
	Andreia Professional True Pure Base Coat Andreia Professional True Pure Top Coat
<b>1.2. Relevant identified uses of the substance or mixture and uses advised against</b>	
Identified uses	Cosmetic.
Uses advised against	Manufacture of food products.
<b>1.3. Details of the supplier of the safety data sheet</b>	
Responsible person:	<b>Higicol S.A.</b> Rua Santos Dias, n°1121, Fração X24, 4465-255 São Mamede de Infesta, Portugal TEL: +(351) 229 858 833  e-mail : <a href="mailto:info@higicol.com">info@higicol.com</a> web : <a href="http://www.andreiaprofessional.com">www.andreiaprofessional.com</a> E-mail of person responsible for Product Safety Data Sheet: <a href="mailto:Info@higicol.com">Info@higicol.com</a>
<b>1.4. Emergency telephone number</b>	
	EU:112 Emergency telephone for other regions to be filled out by local business

### SECTION 2: Hazards identification

<b>2.1. Classification of the substance or mixture</b>	
According to regulation (EC) No 1272/2008:	<b>Skin Sens. 1, H317</b> <b>Eye Irrit. 2, H319</b> <b>Aquatic Chronic 3, H412</b>
Important adverse physicochemical, human health and environmental effects:	<b>Skin Sens. 1, Sensitisation — Skin, hazard category 1;</b> <b>H317 May cause an allergic skin reaction.</b> <b>Eye Irrit. 2, Serious eye damage/eye irritation, Hazard Category 2;</b> <b>H319 Causes serious eye irritation.</b> <b>Aquatic Chronic 2, Long-term (chronic) aquatic hazard, Category 3;</b> <b>H412 Harmful to aquatic life with long lasting effects.</b>
<b>2.2. Label elements</b>	
According to regulation (EC) No 1272/2008:	 <p><b>Warning</b></p> <p><b>H317 May cause an allergic skin reaction.</b> <b>H319 Causes serious eye irritation.</b> <b>H412 Harmful to aquatic life with long lasting effects.</b></p> <p>Contain: HYDROXYPROPYL METHACRYLATE; ETHYL (2,4,6-TRIMETHYLBENZOYL) PHENYLPHOSPHINATE.</p> <p>P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions. P261 Avoid breathing mist/vapours/ spray. P264 Wash hands thoroughly after handling.</p>

	<p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/eye protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water/ soap.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P501 Dispose of contents/container to in accordance with local/ regional/ national/ international regulation.</p>
<b>2.3. Other hazards</b>	
	Product does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH (Regulation (EC) No 1907/2006).
See section 11 for more detailed information on health effects and symptoms.	

### SECTION 3: Composition/information on ingredients

<b>3.1. Substances</b>	No relevant.					
<b>3.2. Mixtures</b>	Mixture of acrylic monomers and other ingredients.					
Ingredient name (INCI)	INDEX Number:	CAS Number:	EINECS/ EC Number:	Conc. (%)	Classification Regulation (EC) 1272/2008 (CLP)	Type
BIS-HEA POLY(1,4-BUTANEDIOL)-9/IPDI COPOLYMER	N/A	N/A	N/A	45-55	Not classified	
Methacrylic acid, monoester with propane-1,2-diol [HYDROXYPROPYL METHACRYLATE]	N/A	27813-02-1	248-666-3	30-40	Skin Sens. 1, H317 Eye Irrit. 2, H319	[1]
α-d-Glucopyranoside, β-d-fructofuranosyl, benzoate [SUCROSE BENZOATE]	N/A	12738-64-6	235-795-5	5-<10	STOT RE 2, H373	[1]
Propylidynetrimethyl trimethacrylate [TRIMETHYLOLPROPANE TRIMETHACRYLATE]	N/A	3290-92-4	221-950-4	1-5	Aquatic Chronic 2, H411	[1]
Reaction product of 2-hydroxyethyl methacrylate and 2,2-dimethyl-1,3-propanediol and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and hexanedioic acid [BIS-HEMA POLYNEOPENTYL GLYCOL ADIPATE/IPDI COPOLYMER]	N/A	82339-16-0	810-131-2	1-5	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
Ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate [ETHYL (2,4,6-TRIMETHYLBENZOYL) PHENYLPHOSPHINATE]	N/A	84434-11-7	282-810-6	1-3	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[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

### SECTION 4: First aid measures

<b>4.1. Description of first aid measures</b>	
General advice:	Remove contaminated clothing.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 necessary, call a poison centre or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact:	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. 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. Get medical attention if symptoms persist.
	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 material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	
Eye contact:	Irritating to the eyes. Conjunctivitis, lacrimation, redness and swelling of eyes, watering.
Inhalation:	May cause nose and throat irritation. May affect the brain or nervous system, causing dizziness, headache or nausea.
Skin contact:	Might cause skins sensitization. Irritation, swelling and redness of skin, dermatitis, blistering.
Ingestion:	No known effect according to our database.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	
Specific treatments:	Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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

## **SECTION 5: Firefighting measures**

<b>5.1. Extinguishing media</b>	
Suitable extinguishing media:	Water spray, foam, dry chemical, carbon dioxide.
Unsuitable extinguishing media:	Full-power water jet.
<b>5.2. Special hazards arising from the substance or mixture</b>	
	<p>Hazards from the substance or mixture: In a fire or if heated, a pressure increase will occur and the container may burst.</p> <p>Hazardous combustion products: Decomposition products may include the following materials: carbon dioxide carbon monoxide Phosphorous oxides Other unidentified organic and inorganic substances.</p> <p>This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterways, sewer or drain.</p>
<b>5.3. Advice for firefighters</b>	
	<p>Water may be ineffective in fighting fire. 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.</p> <p>During emergency conditions, overexposure to decomposition products may cause a health hazard; symptoms may not be immediately apparent. Obtain medical attention.</p>

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

	<p>Personal precautions, protective equipment and emergency procedures</p> <p>For non-emergency personnel: 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.</p> <p>For emergency responders: 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".</p>
--	---

### 6.2. Environmental precautions

	<p>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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.</p>
--	---

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

	<p>Small spill: Stop leak if without 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.</p> <p>Large spill: Stop leak if without 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.</p>
--	---

### 6.4. Reference to other sections

	<p>See Section 1 for emergency contact information.</p> <p>See Section 8 for information on appropriate personal protective equipment.</p> <p>See Section 13 for additional waste treatment information.</p>
--	--

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Protective measures:	<p>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.</p>
Advice on general occupational hygiene:	<p>Good industrial hygiene practices should be observed.</p> <p>Provide sufficient air exchange and/or exhaust in work rooms.</p> <p>Wash hands before work breaks and after finishing work.</p> <p>Do not eat, drink or smoke while working.</p> <p>Take off all contaminated clothing immediately.</p> <p>Use of dispensing equipment is recommended to minimise the risk of skin or eye contact.</p> <p>See also Section 8 for additional information on hygiene measures.</p>

### 7.2. Conditions for safe storage, including any incompatibilities

Storage:	<p>Store in well-ventilated area. Keep containers (solvent resistant) closed when not in use. Store away from ignition sources. Store in a clean, dry area. 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.</p> <p>Empty container may retain product residues (vapour or liquid).</p>
----------	--

### 7.3. Specific end use(s)





Industrial sector specific solutions:	<p>Product is for professional use only.</p>
---------------------------------------	--

## 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. <b>United Kingdom (EH40):</b> <i>Not available.</i>  <b>Latvia (AER, reg.325/2011):</b> <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. Manufacturer: Exposure controls

Appropriate engineering Controls:	Ensure good ventilation/extraction.
<b>Individual protection measures:</b>	
Hygiene measures:	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.
Respiratory protection	 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. Filter type: A
Eye/face protection:	 Safety glasses with side-shields or chemical safety goggles should be worn if there is a risk of splashing.
Skin protection:	  Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): nitrile rubber (NBR; >= 0.4 mm thickness). Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): nitrile rubber (NBR; >= 0.4 mm thickness). This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed, then the gloves should be replaced. Wear suitable protective clothing.
<b>Environmental exposure controls:</b>	
	According to available technology.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Viscous liquid
Colour	Not available.
Odour	Not available.
Odour threshold	Not available.

pH at 25 °C	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	>100 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	Insoluble in water. Soluble in solvent.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Evaporation Rate	Not available.
Explosive properties	Not available.
Oxidising properties	Not available
<b>9.2. Other information</b>	
Impurity	Not available

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	
	No hazardous reactions if stored and handled as prescribed/indicated.
<b>10.2. Chemical stability</b>	
	Stable under recommended storage conditions.
<b>10.3. Possibility of hazardous reactions</b>	
	Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions or when exposed to white light, ultraviolet light or heat.
<b>10.4. Conditions to avoid</b>	
	Sun-Light, un-clean conditions to avoid during storage. Heat.
<b>10.5. Incompatible materials</b>	
	Avoid radical forming substances (metal-ions, peroxides).
<b>10.6. Hazardous decomposition products</b>	
	Fumes produced when heated to decomposition may include: Toxic carbon monoxide, carbon dioxide.

## SECTION 11: Toxicological information

<b>11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008</b>				
<b>Acute toxicity:</b>	ATE mix Oral calculation: >2000 mg/kg, not classified as acute toxic.			
<b>Mixture/ Ingredient name</b>	<b>Result</b>	<b>Species</b>	<b>Dose</b>	<b>Exposure</b>
Methacrylic acid, monoester with propane-1,2-diol [HYDROXYPROPYL METHACRYLATE]	LD50 Oral	Rat	>= 2 000 mg/kg bw	-
	LD50 Dermal	Rabbit	> 5 000 mg/kg bw	-
α-d-Glucopyranoside, β-d-fructofuranosyl, benzoate [SUCROSE BENZOATE]	LD50 Oral	Rat	> 2 000 mg/kg bw	-
	LC50 Inhalation	Rat	12.2 mg/L air	4 h
	LD50 Dermal	Rabbit	> 2 000 mg/kg bw	-
Propylidynetrimethyl trimethacrylate [TRIMETHYLOLPROPANE TRIMETHACRYLATE]	LD50 Oral	Rat	> 2 000 mg/kg bw	-
	LD50 Dermal	Rat	> 2 000 mg/kg bw	-

<b>Eye irritation:</b>	<b>Eye Irrit. 2, H319 Causes serious eye irritation.</b>
<b>Mixture/ Ingredient name</b>	<b>Effect</b>
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 Guideline: Appraisal of the safety of Chemicals in foods, drugs and cosmetics by staff of the Division of Pharmacology, FDA acc. to Draize.
Reaction product of 2-hydroxyethyl methacrylate and 2,2-dimethyl-1,3-propanediol and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and hexanedioic acid [BIS-HEMA POLYNEOPENTYL GLYCOL ADIPATE/IPDI COPOLYMER]	Category 2B (irritating to eyes) based on GHS criteria.
<b>Skin irritation/ corrosion:</b>	<b>The product is not classified.</b>
<b>Mixture/ Ingredient name</b>	<b>Effect</b>
Reaction product of 2-hydroxyethyl methacrylate and 2,2-dimethyl-1,3-propanediol and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and hexanedioic acid [BIS-HEMA POLYNEOPENTYL GLYCOL ADIPATE/IPDI COPOLYMER]	Irritating to the skin.
<b>Sensitisation:</b>	<b>Skin Sens. 1, H317 May cause an allergic skin reaction</b>
<b>Mixture/ Ingredient name</b>	<b>Effect</b>
Methacrylic acid, monoester with propane-1,2-diol [HYDROXYPROPYL METHACRYLATE]	Skin sensitizer.
Ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate [ETHYL (2,4,6-TRIMETHYLBENZOYL) PHENYLPHOSPHINATE]	Skin sensitizer.
<b>Repeated dose toxicity:</b>	No known effect according to our database.
<b>Carcinogenicity:</b>	No known effect according to our database.
<b>Mutagenicity:</b>	No known effect according to our database.
<b>Toxicity for reproduction:</b>	No known effect according to our database.
<b>STOT:</b>	<b>The product is not classified.</b>
<b>Mixture/ Ingredient name</b>	<b>Effect</b>
$\alpha$ -d-Glucopyranoside, $\beta$ -d-fructofuranosyl, benzoate [SUCROSE BENZOATE]	Hazard category: STOT Rep. Exp. 2 Hazard statement: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. Affected organs: lungs Route of exposure: inhalation
<b>Aspiration hazard:</b>	No known effect according to our database.
<b>Potential acute health effects</b>	
Eye contact:	Irritating to the eyes.
Inhalation:	May cause nose and throat irritation. May affect the brain or nervous system.
Skin contact:	Irritating to the skin, might cause skins sensitization.
Ingestion:	No known effect according to our database.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	
Eye contact:	Conjunctivitis, lacrimation, redness and swelling of eyes, watering.
Inhalation:	Dizziness, headache, irritation or nausea.



Skin contact:	Irritation, swelling and redness of skin, dermatitis, blistering.
Ingestion:	No known significant effects or critical hazards.
<b>Delayed and immediate effects and also chronic effects from short and long term exposure</b>	
<b>Short term exposure:</b>	
Potential immediate effects:	Not available.
Potential delayed effects:	Not available.
<b>Long term exposure:</b>	
Potential immediate effects:	Not available.
Potential delayed effects:	Not available.
<b>Potential chronic health effects:</b>	
<b>Conclusion/Summary</b>	
General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.
<b>11.2. Information on other hazards</b>	
	Not available.

## SECTION 12: Ecological information

12.1. Toxicity						
Aquatic toxicity		Aquatic Chronic 3, H412 Toxic to aquatic life with long lasting effects.				
Mixture/ Ingredient name:	Species:	Water media type:	Exposure:	Dose:	Effect conc.:	Notes:
Propylidynetrimethyl trimethacrylate [TRIMETHYLOLPROPANE TRIMETHACRYLATE]	Oncorhynchus mykiss	freshwater	96 h	LC50	2 mg/L	
	Pimephales promelas	freshwater	32 d	NOEC	>= 1.431 mg/L	
	Daphnia magna	freshwater	48 h	EC50	> 9.22 mg/L	
	Pseudokirchneriella subcapitata	freshwater	72 h	NOEC	0.177 mg/L	
	Activated sludge	freshwater	3 h	EC50	> 1 000 mg/L	
Ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate [ETHYL (2,4,6-TRIMETHYLBENZOYL) PHENYLPHOSPHINATE]	Danio rerio (Zebrafish)	freshwater	96 h	LC50	1.89 mg/L	
12.2. Persistence and degradability						
Product contains substances that are not readily biodegradable, but are inherently biodegradable in water.						
Mixture/ Ingredient name	Effect					
Propylidynetrimethyl trimethacrylate [TRIMETHYLOLPROPANE TRIMETHACRYLATE]	Inherently biodegradable. Biodegradation in water was 53% after 28 days.					
12.3. Bioaccumulative potential						
Mixture/ Ingredient name	Effect					
Propylidynetrimethyl trimethacrylate [TRIMETHYLOLPROPANE TRIMETHACRYLATE]	The calculated Log BCF for the substance is 2.432 (BCF = 270.1 L/kg wet weight).					
12.4. Mobility in soil						
Mixture/ Ingredient name	Effect					
Propylidynetrimethyl trimethacrylate [TRIMETHYLOLPROPANE TRIMETHACRYLATE]	Koc at 20 °C: 1 757					
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).					



<b>12.6. Endocrine disrupting properties</b>	
	No known significant effects or critical hazards.
<b>12.7. Other adverse effects</b>	
	No known significant effects or critical hazards.

### SECTION 13: Disposal considerations

<b>13.1. Waste treatment methods</b>	
<b>Product:</b>	
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 EU regulation 1357/2014.
European waste catalogue (EWC):	20 01 27* paint, inks, adhesives and resins containing dangerous substances
<b>Packaging:</b>	
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 <b>preparation is not classified</b> as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).				
<b>International transport regulations:</b>				
	<b>ADR/RID</b>	<b>ADN</b>	<b>IMDG</b>	<b>IATA</b>
14.1. UN number or ID number	-	-	-	-
14.2. UN proper shipping name	-			
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

<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
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. 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). The subcategory of the product: Two-pack performance coatings, solvent base, VOC content limit values <500 g/L. DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste, with amendments. 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):	
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.
<b>15.2. Chemical safety assessment</b>	
	A Chemical Safety Assessment has not been carried out.

#### SECTION 16: Other information

<b>Abbreviations and acronyms:</b>	
Full text of abbreviations	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 REACH: Registration, Evaluation and Authorisation of Chemicals PBT: Persistent, bio-accumulative and toxic vPvB: Very persistent, very bio-accumulative
Full text of classifications and H statements [CLP/GHS]:	Skin Irrit. 2 - Skin corrosion/ irritation, Hazard Category 2; H315 Causes skin irritation. Skin Sens. 1, 1B - Sensitisation — Skin, hazard category 1, 1B; H317 May cause an allergic skin reaction. Eye Irrit. 2 - Serious eye damage/eye irritation, Hazard Category 2; H319 Causes serious eye irritation. STOT RE 2 - Specific target organ toxicity — Repeated exposure, Hazard Category 2; H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. Aquatic Chronic 2 - Long-term (chronic) aquatic hazard, Category 2; H411 Toxic to aquatic life with long lasting effects. Aquatic Chronic 3 - Long-term (chronic) aquatic hazard, Category 3; H412 Harmful to aquatic life with long lasting effects.
Classification system	<b>Classification for health effects:</b> conventional (calculation) method is used or generic/specific concentration limits: Skin Sens. 1, H317 Eye Irrit. 2, H319 <b>Classification for physico-chemical effects:</b> No applicable. <b>Classification for environmental effects:</b> conventional (calculation) method is used. Aquatic Chronic 3, H412
<b>Training advice:</b>	
	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.
<b>Used literature:</b>	
	European Chemical Agency's homepage ( <a href="http://echa.europa.eu/">http://echa.europa.eu/</a> ). Safety data sheets of individual components.
<b>DISCLAIMER OF LIABILITY:</b>	

	<p>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.</p>
--	---

**END OF SAFETY DATA SHEET**