


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

<b>1.1. Product identifier</b>	
Product Name:	Kinetics Monomer
Item number:	KM008
<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>Kinetics Nail Systems, Ltd</b> Kurzemes prospekts 3K, Riga, Latvia, LV-1067 Phone: +(371) 6 7295 260 Fax: +(371) 6 7873 525 E-mail: <a href="mailto:info@kineticsbeauty.com">info@kineticsbeauty.com</a> Web page: <a href="http://www.kineticsbeauty.com">www.kineticsbeauty.com</a> E-mail of person responsible for Product Safety Data Sheet: <a href="mailto:info@kineticsbeauty.com">info@kineticsbeauty.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>Flam. Liq. 2 (H225) – Flammable liquids, Hazard Category 2.</b> <b>Skin Irrit. 2 (H315) – Skin corrosion/ irritation, Hazard Category 2.</b> <b>Skin Sens. 1 (H317) – Sensitisation - Skin, hazard category 1.</b> <b>Eye Irrit. 2 (H319) – Serious eye damage/eye irritation, Hazard Category 2.</b> <b>STOT SE 3 (H335) – Specific target organ toxicity — Single exposure, Hazard Category 3, Respiratory tract irritation.</b> <b>Aquatic Chronic 3 (H412) – Long-term (chronic) aquatic hazard, Category 3.</b>
Important adverse physicochemical, human health and environmental effects:	<b>Highly flammable liquid and vapour.</b> <b>Causes skin irritation.</b> <b>May cause an allergic skin reaction</b> <b>Causes serious eye irritation.</b> <b>May cause respiratory irritation.</b> <b>Harmful to aquatic life with long lasting effects.</b>
<b>2.2. Label elements</b>	
According to regulation (EC) No 1272/2008:	 <p><b>Danger</b> <b>H225 Highly flammable liquid and vapour.</b></p>

	<p><b>H315 Causes skin irritation.</b>  <b>H317 May cause an allergic skin reaction.</b>  <b>H319 Causes serious eye irritation.</b>  <b>H335 May cause respiratory irritation.</b>  <b>H412 Harmful to aquatic life with long lasting effects.</b></p> <p>Contains: Ethyl methacrylate; Methacrylic acid, monoester with propane-1,2-diol; Ethylene dimethacrylate; 2-(N-methyl-p-toluidino)ethanol; Poly(oxy-1,2-ethanediyl),.alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-; Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate; 1-hydroxy-4-(p-toluidino)anthraquinone.</p> <p>P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  P233 Keep container tightly closed.  P240 Ground and bond container and receiving equipment.  P261 Avoid breathing mist/vapours/ spray.  P271 Use only outdoors or in a well-ventilated area.  P273 Avoid release to the environment.  P280 Wear protective gloves/ face protection/eye protection.  P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  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.  P312 Call a POISON CENTER or doctor/physician if you feel unwell.  P403+P235 Store in a well-ventilated place. Keep cool.  P501 Dispose of contents/container to in accordance with local/ regional/ national/ international regulation.</p>
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**2.3. Other hazards**

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.

Note: 2,6-Di-tert-butyl-p-cresol is under development under SEV for having endocrine disruptive properties by France. At the date of MSDS compilation there was no hazard assessment outcome available to the best knowledge of the compiler of this MSDS.

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

**SECTION 3: Composition/information on ingredients**

<b>3.1. Substances</b>		Not relevant.				
<b>3.2. Mixtures</b>						
Ingredient name [INCI]	INDEX No.	CAS No.	EINECS/ EC No.	Conc. (%)	Classification Regulation (EC) 1272/2008 (CLP)	Type
Ethyl methacrylate [ETHYL METHACRYLATE]	607-071-00-2	97-63-2	202-597-5	70-75	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335	[1] [5]

**Kinetics Monomer  
KM008**

Methacrylic acid, monoester with propane-1,2-diol [HYDROXYPROPYL METHACRYLATE]	N/A	27813-02-1	248-666-3	20-25	Skin Sens. 1, H317 Eye Irrit. 2, H319	[1]
Ethylene dimethacrylate [GLYCOL DIMETHACRYLATE]	607-114-00-5	97-90-5	202-617-2	5-10	Skin Sens. 1, H317 STOT SE 3, H335  <i>Specific Concentration limits:</i> STOT SE 3; H335: C ≥ 10%	[1]
2-(N-methyl-p-toluidino)ethanol [HYDROXYETHYL METHYL TOLYLAMINE]	N/A	2842-44-6	220-638-5	0.01-1	Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	[1]
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- [PEG-6 SESQUI(BENZOTRIAZOLYL T-BUTYL HYDROXYPHENYLPROPIONATE)]	N/A	104810-48-2	600-603-4	0.01-1	Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate [PENTAMETHYL PIPERIDINYL SESQUISEBACATE]	N/A	41556-26-7	255-437-1	0.01-1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
1-hydroxy-4-(p-toluidino)anthraquinone [CI 60725]	N/A	81-48-1	201-353-5	0.01-1	Skin Sens. 1B, H317	[1]
2,6-Di-tert-butyl-p-cresol [BHT]	N/A	128-37-0	204-881-4	0.1	Aquatic Chronic 1, H410 (M=1)	[1] [2]
1,4-dihydroxybenzene hydroquinone Quinol [HYDROQUINONE]	604-005-00-4	123-31-9	204-617-8	0.02	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 Aquatic Acute 1, H400 (M=10)	[1] [2] [5]

**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

**Kinetics Monomer  
KM008**

	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 skins 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>	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<i>Unsuitable extinguishing media:</i>	Do not use full power water jet.

**5.2. Special hazards arising from the substance or mixture**

	<p>Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.</p> <p>Hazardous decomposition products may include: Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) 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>
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**5.3. Advice for firefighters**

	<p>If water is used to cool closed containers to prevent pressure build-up, fog nozzles are preferred.</p> <p>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>
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**SECTION 6: Accidental release measures**

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<i>For non-emergency personnel:</i>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Immediately contact emergency services. Eliminate all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Be aware of possible accumulation of vapour. Follow fire-fighting measures. Avoid release to the environment.
<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".
<b>6.2. Environmental precautions</b>	
	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.
<b>6.3. Methods and material for containment and cleaning up</b>	
<i>Small spill:</i>	Stop leak if without risk. Move containers from spill area. Eliminate sources of ignition. Use non-sparking and explosion proof equipment. 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 leak if without risk. Move containers from spill area. Approach the release from upwind. Eliminate sources of ignition. Use non-sparking and explosion proof equipment. 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.
<b>6.4. Reference to other sections</b>	
	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**

<b>7.1. Precautions for safe handling</b>	
Protective measures:	Put on appropriate personal protective equipment (see Section "Exposure controls/ personal protection"). Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour. Eliminate sources of ignition. Only use in well ventilated areas. Keep container tightly closed when not in use. Provide emergency eye washing and shower facilities. Take precautions against static discharge by earthing and bonding all containers and equipment before transferring material. Use explosion proof electrical (ventilating, lighting and material handling) equipment. 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.





**Kinetics Monomer  
KM008**

	<p>Take off all contaminated clothing immediately. 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.</p>
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	
Storage:	<p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. All equipment should be grounded. 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).</p>
<b>7.3. Specific end use(s)</b>	
Industrial sector specific solutions:	Not available.

**SECTION 8: Exposure controls/personal protection**

<b>8.1. Control parameters</b>	
Occupational exposure limits:	<p>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.</p> <p><b>EU (IOELV):</b> None known.</p> <p><b>United Kingdom (EH40):</b> <i>2,6-Di-tert-butyl-p-cresol:</i> Long-term exposure limit: 8 hrs: 10 mg/m<sup>3</sup> <i>Hydroquinone:</i> Long-term exposure limit: 8 hrs: 0.5 mg/m<sup>3</sup></p> <p><b>Latvia (AER, reg.325/2011):</b> None known.</p> <p><b>Germany (TRGS-900):</b> <i>2,6-Di-tert-butyl-p-kresol:</i> Long-term exposure limit: 8 hrs: 10 E mg/m<sup>3</sup></p>
Recommended monitoring procedures:	<p>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.</p>
<b>8.2. Exposure controls</b>	
Appropriate engineering Controls:	<p>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.</p>
<b>Individual protection measures:</b>	
<u>Hygiene measures:</u>	<p>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</p>

**Kinetics Monomer  
KM008**

	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 glasses with side shields or chemical safety goggles should be worn if there is a risk of splashing.
<u>Skin protection:</u>	
Hand protection:	 Chemical-resistant protective gloves (EN 374). 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.
Body protection:	 Wear suitable protective clothing.
<u>Environmental exposure controls:</u>	
	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**

<b>9.1. Information on basic physical and chemical properties</b>	
a) Physical state	Liquid.
b) Colour	Violet. [Light].
c) Odour	Sharp. Ester.
d) Melting point/freezing point	Not available.
e) Initial boiling point and boiling range	117 °C
f) Flammability	Highly flammable liquid.
g) Lower and upper explosion limit	Lower: 2% Upper: 2.5%
h) Flash point	Closed cup: 20 °C [Tagliabue]
i) Auto-ignition temperature	392.8 °C
j) Decomposition temperature	Not available.
k) pH	Not available.
l) Kinematic viscosity	Not available.
m) Solubility (-ies)	In water: 0.05 g/l
n) Partition coefficient n-octanol/water (log value)	1.25
o) Vapour pressure	Not available.
p) Density and/or relative density	0.93
q) Relative vapour density	3.9 [Air = 1]
r) Particle characteristics	Not available.
<b>9.2. Other information</b>	
<b>9.2.1. Information with regard to physical hazard classes</b>	

**Kinetics Monomer  
KM008**

	Not available
<b>9.2.2. Other safety characteristics</b>	
Evaporation rate	1.5 (butyl acetate = 1)
Explosive properties	Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
Oxidising properties	Not available

**SECTION 10: Stability and reactivity**

<b>10.1. Reactivity</b>	
	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2. Chemical stability</b>	
	Stable under recommended storage conditions.
<b>10.3. Possibility of hazardous reactions</b>	
	Hazardous polymerization may occur under certain conditions of storage or use. These could cause the product to polymerize exothermically. Unintentional contact with them should be avoided. Hazardous reactions or instability may occur under certain conditions of storage or use.
<b>10.4. Conditions to avoid</b>	
	Sun-Light, un-clean conditions to avoid during storage. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
<b>10.5. Incompatible materials</b>	
	Reactive or incompatible with the following materials: oxidizing materials
<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>a) Acute toxicity</b>				
Data on the product or its components:				
Mixture/ Ingredient name	Result	Species	Dose	Exposure
Ethyl methacrylate [ETHYL METHACRYLATE]	LD <sub>50</sub> (Oral)	Rat	13 424 mg/kg bw	-
	LC <sub>50</sub> (Inhalation)	Rat	55 mg/L air	4 h
Methacrylic acid, monoester with propane-1,2-diol [HYDROXYPROPYL METHACRYLATE]	LD <sub>50</sub> Oral	Rat	> 2 000 mg/kg bw	-
	LD <sub>50</sub> Dermal	Rabbit	> 5 000 mg/kg bw	-
Ethylene dimethacrylate [GLYCOL DIMETHACRYLATE]	LD <sub>50</sub> Oral	Rat	8 300 mL/kg bw	-
	LCLo Inhalation	Rat	> 1 mg/L air	6 h
	LD <sub>50</sub> Dermal	Rat	> 2 000 mg/kg bw	-
2-(N-methyl-p-toluidino)ethanol [HYDROXYETHYL METHYL TOLYLAMINE]	LD <sub>50</sub> Oral	Rat	> 2 000 mg/kg bw	-
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-[PEG-6 SESQUI(BENZOTRIAZOLYL T-BUTYL HYDROXYPHENYLPROPIONATE)]	LD <sub>50</sub> Oral	Rat	> 5 000 mg/kg bw	-

**Kinetics Monomer  
KM008**

1-hydroxy-4-(p-toluidino)anthraquinone [CI 60725]	LD <sub>50</sub> Oral	Rat	> 5 000 mg/kg bw	-
2,6-Di-tert-butyl-p-cresol [BHT]	LD <sub>50</sub> (Oral)	Rat	> 6 000 mg/kg bw	-
	RD <sub>50</sub> (Inhalation: Vapour)	Mouse	59.7 ppm	30 min
1,4-dihydroxybenzene hydroquinone Quinol [HYDROQUINONE]	LD <sub>50</sub> (Dermal)	Rat	> 2 000 mg/kg bw	-
	LD <sub>50</sub> Oral	Rat	> 375 mg/kg bw	-
	LD <sub>50</sub> Dermal	Rabbit	> 2 000 mg/kg bw	-
<b>Conclusion/Summary:</b>	<b>Based on available data, classification criteria not met.</b>			

**b) Serious eye damage/irritation**

Data on the product or its components:

Mixture/ Ingredient name	Effect				
Ethyl methacrylate [ETHYL METHACRYLATE]	Moderately irritating. Species: Rabbit.				
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.				
	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
2-(N-methyl-p-toluidino)ethanol [HYDROXYETHYL METHYL TOLYLAMINE]	Category 2 (irritating to eyes) based on GHS criteria. Species: Cattle. Amount applied (volume): 750 µL Duration of treatment / exposure: 10 minutes at 32 ± 1 °C. Observation period (in vivo): 3,5 hours at 32 ± 1 °C Duration of post- treatment incubation (in vitro): 2 hours at 32 ± 1 °C Guideline: OECD Guideline 437 (Bovine Corneal Opacity and Permeability Test Method for Identifying i) Chemicals Inducing Serious Eye Damage and ii) Chemicals Not Requiring Classification for Eye Irritation or Serious Eye Damage)				
	Irritation parameter	Time point	Score	Max score	Reversibility
	In vitro irritation score	-	21.61	-	-
1,4-dihydroxybenzene hydroquinone Quinol [HYDROQUINONE]	Causes serious eye damage.				
<b>Conclusion/Summary:</b>	<b>According to classification method described in CLP regulation, this product is classified as mixture that causes serious eye irritation. (Eye Irrit. 2, H319).</b>				

**c) Skin corrosion/irritation**

Data on the product or its components:

Mixture/ Ingredient name	Effect
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**Kinetics Monomer  
KM008**

Ethyl methacrylate [ETHYL METHACRYLATE]	Moderately irritating. Species: Rabbit. Amount / concentration applied: 0.5 ml Duration of treatment / exposure: 24 hour(s) Observation period: up to 72 hrs				
	<b>Irritation parameter</b>	<b>Time point</b>	<b>Score</b>	<b>Max score</b>	<b>Reversibility</b>
	Erythema score	24/48/72 h	0.5-2	4	Might not be fully reversible within: 72 h
Edema score	24/48/72 h	0.5-3	4	Not fully reversible within: 72 h	
<b>Conclusion/Summary:</b>	<b>According to classification method described in CLP regulation, this product is classified as irritating to the skin (Skin Irrit. 2, H315).</b>				
<b>d) Respiratory or skin sensitisation</b>					
Data on the product or its components:					
<b>Mixture/ Ingredient name</b>	<b>Effect</b>				
Ethyl methacrylate [ETHYL METHACRYLATE]	Category 1 (skin sensitising) based on GHS criteria. Guideline: OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) Endpoint: Skin sensitisation: in vivo (non-LLNA). Type of study: Mouse local lymph node assay (LLNA). Species: Mouse. EC <sub>3</sub> : 82.6 % SI: 25%: 0.93 50%: 1.41 100%: 385				
Methacrylic acid, monoester with propane-1,2-diol [HYDROXYPROPYL METHACRYLATE]	Skin sensitizer (May cause an allergic skin reaction).				
Ethylene dimethacrylate [GLYCOL DIMETHACRYLATE]	Category 1B (indication of skin sensitising potential) based on GHS criteria. Guideline: OECD Guideline 406 (Skin Sensitisation) Endpoint: Skin sensitisation: in vivo (LLNA). Type of study: Mouse local lymph node assay (LLNA). Species: Mouse. EC <sub>3</sub> : 35 %				
2-(N-methyl-p-toluidino)ethanol [HYDROXYETHYL METHYL TOLYLAMINE]	Category 1 (skin sensitising) based on GHS criteria. Guideline: OECD Guideline 442D (In Vitro Skin Sensitisation: ARE-Nrf2 Luciferase Test Method) Endpoint: Skin sensitisation: in vitro				
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- [PEG-6 SESQUI(BENZOTRIAZOLYL T-BUTYL HYDROXYPHENYLPROPIONATE)]	Category 1 (skin sensitising) based on GHS criteria. Species: Guinea pig				
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate [PENTAMETHYL PIPERIDINYL SESQUISEBACATE]	Category 1 (skin sensitising) based on GHS criteria.				
1-hydroxy-4-(p-toluidino)anthraquinone [CI 60725]	Category 1B (indication of skin sensitising potential) based on GHS criteria. Guideline: OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) Endpoint: Skin sensitisation: in vivo (LLNA). Type of study: Mouse local lymph node assay (LLNA). Species: Mouse. EC <sub>3</sub> : 16.7 %				

**Kinetics Monomer  
KM008**

	<p>SI: 5%: 2.1-2.6 25%: 3.5</p>
<p>1,4-dihydroxybenzene hydroquinone Quinol [HYDROQUINONE]</p>	<p>Category 1 (skin sensitising) based on GHS criteria. Guideline: OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) Endpoint: Skin sensitisation: in vivo (LLNA). Type of study: Mouse local lymph node assay (LLNA). Species: Mouse. EC<sub>3</sub>: 0.073 % SI: 0.1%: &gt;= 2.4 &lt;= 3.6 0.25%: &gt;= 4.8 &lt;= 14.9 0.5%: &gt;= 6 &lt;= 23.7 1.0%: &gt;= 8.4 &lt;= 25.3 2.5%: &gt;= 12.2 &lt;= 33.4</p>
<p><b>Conclusion/Summary:</b></p>	<p><b>According to classification method described in CLP regulation, this product is classified as sensitising to the skin (Skin Sens. 1, H317).</b></p>
<p><b>e) Germ cell mutagenicity</b> Data on the product or its components:</p>	
<p><b>Mixture/ Ingredient name</b></p>	<p><b>Effect</b></p>
<p>1,4-dihydroxybenzene hydroquinone Quinol [HYDROQUINONE]</p>	<p><i>Genetic toxicity in vitro:</i> Endpoint: in vitro gene mutation study in mammalian cells. Guideline: OECD Guideline 476 (In Vitro Mammalian Cell Gene Mutation Test) Target gene: Thymidine kinase locus Metabolic activation system: S9 mix from Aroclor 1254 induced rat liver Species / strain / cell type: mouse lymphoma L5178Y cells Conclusion: Positive with and without metabolic activation (was positive at doses of 1.25 µg/mL and higher in the absence of S9, and at 2.5 µg/mL and higher in the presence of S9).</p> <p><i>Genetic toxicity in vivo:</i> Endpoint: in vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus (Type of genotoxicity: chromosome aberration) Guideline: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) Species: Mouse Conclusion: Induced micronuclei in polychromatic bone marrow erythrocytes after intraperitoneal application in mice. The lowest dose inducing a statistically significant increase of the frequency of micronuclei was a single dose of 50 mg/kg or three repeated doses of 15 mg/kg (45 mg/kg in total).</p>
<p><b>Conclusion/Summary:</b></p>	<p><b>Based on available data, classification criteria not met.</b></p>
<p><b>f) Carcinogenicity</b> Data on the product or its components:</p>	
<p><b>Mixture/ Ingredient name</b></p>	<p><b>Effect</b></p>
<p>1,4-dihydroxybenzene hydroquinone Quinol [HYDROQUINONE]</p>	<p>Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) Endpoint: carcinogenicity: oral Species: mouse Strain: B6C3F1</p> <p>LOAEL (Effect type: toxicity): 100 mg/kg bw/day (actual dose received) - body weight, organ weights, histopathology (liver, males only) NOEL (Effect type: carcinogenicity): 50 mg/kg bw/day (actual dose received) Dose level (Effect type: carcinogenicity): &gt;= 50 mg/kg bw/day (actual dose received) - increased incidence of hepatocellular adenomas</p>

**Kinetics Monomer  
KM008**

	Conclusion: Under the conditions of the 2-year gavage study, the it was concluded on some evidence of carcinogenic activity of hydroquinone in female B6C3F1 mice, as shown by significant increases of hepatocellular adenoma, adenomas or carcinomas combined.
<b>Conclusion/Summary:</b>	<b>Based on available data, classification criteria not met.</b>
<b>g) Reproductive toxicity</b> Data on the product or its components:	
	No data on adverse effects on humans or animals are available.
<b>Conclusion/Summary:</b>	<b>Based on available data, classification criteria not met.</b>
<b>h) Specific target organ toxicity - Single exposure</b> Data on the product or its components:	
<b>Mixture/ Ingredient name</b>	<b>Effect</b>
Ethyl methacrylate [ETHYL 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 dimethacrylate [GLYCOL DIMETHACRYLATE]	Hazard category: Specific target organ toxicity - Single Exposure, Category 3 Hazard statement: May cause respiratory irritation. Affected organs: respiratory tract.
<b>Conclusion/Summary:</b>	<b>According to classification method described in CLP regulation, product is classified as respiratory tract irritant (STOT SE 3, H335).</b>
<b>j) Specific target organ toxicity - Repeated exposure</b> Data on the product or its components:	
	No data on adverse effects on humans or animals are available.
<b>Conclusion/Summary:</b>	<b>Based on available data, classification criteria not met.</b>
<b>i) Aspiration hazard</b> Data on the product or its components:	
	No data on adverse effects on humans or animals are available.
<b>Conclusion/Summary:</b>	<b>Based on available data, classification criteria not met.</b>
<b>Potential acute health effects</b>	
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.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	
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.
<b>Delayed and immediate effects and also chronic effects from short and long term exposure</b>	
<b>Short term exposure:</b>	

**Kinetics Monomer  
KM008**

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>11.2. Information on other hazards</b>	
<b>Endocrine disrupting properties</b>	
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.	
Note: 2,6-Di-tert-butyl-p-cresol is under development under SEV for having endocrine disruptive properties by France. At the date of MSDS compilation there was no hazard assessment outcome available to the best knowledge of the compiler of this MSDS.	
<b>Other information</b>	
	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.
2-(N-methyl-p-toluidino)ethanol [HYDROXYETHYL METHYLTOYLAMINE]	Crustaceans - Daphnia magna	freshwater	48 h	LC <sub>50</sub>	7.03 mg/L
	Algae - Desmodesmus subspicatus	freshwater	72 h	NOEC	10 mg/L
Poly(oxy-1,2-ethanediyl), .alpha.- [3-[3-(2H-benzotriazol-2-yl)-5-(1,1- dimethylethyl)-4-hydroxyphenyl]-1- oxopropyl]-.omega.-hydroxy- [PEG-6 SESQUI(BENZOTRIAZOLYL T- BUTYL HYDROXYPHENYLPROPIONATE)]	Crustaceans - Daphnia magna	freshwater	48 h	EC <sub>50</sub>	4 mg/L
	Algae - Desmodesmus subspicatus	freshwater	72 h	EC <sub>50</sub>	> 9 mg/L
Bis(1,2,2,6,6-pentamethyl-4- piperidyl) sebacate [PENTAMETHYL PIPERIDINYL SESQUISEBACATE]	Fish	freshwater	96 h	LC <sub>50</sub>	≤ 1 mg/l
	Crustaceans	freshwater	48 h	EC <sub>50</sub>	≤ 1 mg/l
	Algae	freshwater	72 h	ErC <sub>50</sub>	≤ 1 mg/l
2,6-Di-tert-butyl-p-cresol [BHT]	Fish – (Q)SAR	freshwater	96 h	LC <sub>50</sub>	0.199 mg/L
	Fish - Oryzias latipes	-	30 d.	NOEC	0.053 mg/L
	Crustaceans - Daphnia magna	freshwater	48 h	EC <sub>50</sub>	0.48 mg/L
	Crustaceans - Daphnia magna	freshwater	21 d.	NOEC	0.069 mg/L
	Algae - Raphidocelis subcapitata	freshwater	72 h	EC <sub>50</sub>	> 0.24 mg/L
	Microorganisms - Tetrahymena pyriformis	freshwater	24 h	EC <sub>50</sub>	1.7 mg/L
1,4-dihydroxybenzene hydroquinone Quinol [HYDROQUINONE]	Fish – Oncorhynchus mykiss	freshwater	96 h	LC <sub>50</sub>	0.638 mg/L
	Fish - Pimephales promelas	freshwater	32 d.	NOEC	≥ 66 µg/L
	Crustaceans - Daphnia magna	freshwater	48 h	EC <sub>50</sub>	0.134 mg/L
	Crustaceans - Daphnia magna	freshwater	21 d.	NOEC	0.003 mg/L
	Algae - Raphidocelis subcapitata	freshwater	72 h	EC <sub>50</sub>	0.33 mg/L
	Microorganisms - activated sludge	freshwater	2 h	IC <sub>50</sub>	71 mg/L

**Kinetics Monomer  
KM008**

<b>Conclusion/Summary:</b>	According to classification method described in CLP regulation, this product is classified as harmful to aquatic life with long lasting effects (Aquatic Chronic 3, H412).
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**12.2. Persistence and degradability**

Data on the product or its components:

Mixture/ Ingredient name	CAS no.	Degradability	Test method/ Guideline
2-(N-methyl-p-toluidino)ethanol [HYDROXYETHYL METHYL TOLYLAMINE]	2842-44-6	Not readily biodegradable. Degradation (CO <sub>2</sub> evolution), 28 d: 22.7%	OECD Guideline 301 B (Ready Biodegradability: CO <sub>2</sub> Evolution Test)
2,6-Di-tert-butyl-p-cresol (BHT)	128-37-0	Not readily biodegradable. 4.7% Biodegradation in water on Day 28 (radiochem. meas.).	Principles of method if other than guideline: The amounts of 14CH <sub>3</sub> - or 14C-phenyl-BHT (as an ethanol solution to give a well-suspended BHT) and activated sludge were added to the standard culture solution (100 mL) and each of the mixture was incubated aerobically by supplying CO <sub>2</sub> free air continuously at the rate of 5 mL/min over 5-16 weeks at 25 ± 1 °C in the dark. The 14CO <sub>2</sub> trap was replaced weekly.
1,4-dihydroxybenzene hydroquinone Quinol [HYDROQUINONE]	123-31-9	Readily biodegradable. Degradation (O <sub>2</sub> consumption), 14 d: 70%	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

**12.3. Bioaccumulative potential**

Data on the product or its components:

Mixture/ Ingredient name	Effect
2,6-Di-tert-butyl-p-cresol (BHT)	The mean bioconcentration factors (BCF) are 781 L/kg (50 µg/L) and 839 L/kg (5 µg/kg). Assessed to have a bioaccumulation potential, however, the substance is not B/vB.
1,4-dihydroxybenzene hydroquinone Quinol [HYDROQUINONE]	Hydroquinone has a log octanol/water partition coefficient < 3 (0.59), it is not surface-active and it is not ionisable under environmental conditions (pH 4 – 9). According to the QSAR calculation, the BCF of hydroquinone is 3.162 L/kg. It can be concluded that hydroquinone has no bioconcentration potential in fish.

**12.4. Mobility in soil**

Data on the product or its components:

Mixture/ Ingredient name	Effect
2,6-Di-tert-butyl-p-cresol (BHT)	Koc at 20 °C: 23 030 Log Koc: 4.362
1,4-dihydroxybenzene hydroquinone Quinol [HYDROQUINONE]	The estimated Koc values were in the range of 9 to 50. These values indicate a very low to low sorption to organic matter in soil and sediment (according to the scheme of Litz 1990). Therefore, hydroquinone is expected to show high to very high mobility in soil and sediment (without taking into account potential ion-ion interactions).

**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:

Mixture/ Ingredient name	Effect
2,6-Di-tert-butyl-p-cresol	Stimulation of endocrine receptor activity:

**Kinetics Monomer  
KM008**

(BHT)	Species: Fish - Oncorhynchus mykiss Exposure: 1 h Organ: Liver. NOEC: 22 mg/l
<b>Conclusion/Summary:</b>	<b>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.</b>  Note: 2,6-Di-tert-butyl-p-cresol is under development under SEV for having endocrine disruptive properties by France. At the date of MSDS compilation there was no hazard assessment outcome available to the best knowledge of the compiler of this MSDS.
<b>12.7. Other adverse effects</b>	
	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 classified** as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

	<b>ADR</b>	<b>RID</b>	<b>IMDG</b>	<b>IATA</b>
<b>14.1. UN number or ID number</b>	UN1993	UN1993	UN1993	UN1993
<b>14.2. UN proper shipping name</b>	FLAMMABLE LIQUID, N.O.S. (ethyl methacrylate)			
<b>14.3. Transport hazard class(es)</b>	3	3	3	3

**Kinetics Monomer  
KM008**

				
<b>14.4. Packing group</b>	II	II	II	II
<b>14.5. Environmental hazards</b>	YES	YES	YES	YES
<b>14.6. Special precautions for user</b>	<p>Avoid contact with product as it can be irritating in contact with eyes, skin and if inhaled, and could cause allergic skin reaction in contact with skin.  <i>Transport within user's premises:</i> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.</p>			
<b>Additional information:</b>	<p><u>Classification code:</u> F1  <u>Special provisions:</u> 274; 601; 640C  <u>Limited quantity:</u> 1 L  <u>Excepted quantity:</u> E2 (inner packaging: 30 mL/ outer packaging: 500 mL)  <u>Packaging:</u> Packaging instructions: P001  Mixed packaging provisions: MP19  <u>Portable tanks and bulk containers:</u> Instructions: T7  Special provisions: TP1; TP8; TP28  <u>ADR tank:</u> Tank code: L1.5BN  <u>Vehicle for tank carriage:</u> FL  <u>Transport category:</u> 2  <u>Tunnel restriction code:</u> (D/E)  <u>Special provisions for carriage:</u> Operation: S2; S20  <u>Hazard identification:</u> 33</p>	<p><u>Classification code:</u> F1  <u>Special provisions:</u> 274; 601; 640C  <u>Limited quantity:</u> 1 L  <u>Excepted quantity:</u> E2 (inner packaging: 30 mL/ outer packaging: 500 mL)  <u>Packaging:</u> Packaging instructions: P001  Mixed packaging provisions: MP19  <u>Portable tanks and bulk containers:</u> Instructions: T7  Special provisions: TP1; TP8; TP28  <u>RID tank:</u> Tank code: L1.5BN  <u>Transport category:</u> 2  <u>Colis express (express parcels):</u> CE7  <u>Hazard identification:</u> 33</p>	<p><u>Special provisions:</u> 274; 330; 944  <u>Limited quantity:</u> 1 L  <u>Packaging:</u> Instructions: P001  <u>IBC:</u> Instructions: IBC02  <u>Portable tanks and bulk containers:</u> IMO Tank instructions: T4  UN Tank instructions: T7  Provisions: TP1; TP8; TP28  <u>EmS code:</u> F-E, S-E  <u>Stowage and segregation:</u> Category B  <u>Properties and observations:</u> -</p>	<p><u>Passenger Aircraft (PAX):</u> IATA Limited quantities packaging instructions: Y341  IATA Max Limited Quantities per package: 1 L  IATA Packaging instructions: 353  <u>Cargo Aircraft (CAO):</u> Packaging instructions: 364  Max Limited Quantities per package: 30 L  <u>IATA Special provisions:</u> A3</p>
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	Not applicable.			

**Kinetics Monomer  
KM008**

**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).  
 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):

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:	None of the components are listed.

**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>
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**Full text of classifications and H statements [CLP/ GHS]:**

	<p>Flam. Liq. 2, Flammable liquids, Hazard Category 2;          H225 Highly flammable liquid and vapour.          Acute Tox. 4, Acute toxicity (oral), Hazard Category 4;</p>
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**Kinetics Monomer  
KM008**

	<p>H302 Harmful if swallowed.  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 Dam. 1, Serious eye damage/eye irritation, Hazard Category 1;  H318 Causes serious eye damage.  Eye Irrit. 2, Serious eye damage/eye irritation, Hazard Category 2;  H319 Causes serious eye irritation.  STOT SE 3, Specific target organ toxicity — Single exposure, Hazard Category 3,  Respiratory tract irritation;  H335 May cause respiratory irritation.  Muta. 2, Germ cell mutagenicity, Hazard Category 2;  H341 Suspected of causing genetic defects &lt;state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard&gt;.  Carc. 2, Carcinogenicity, Hazard Category 2;  H351 Suspected of causing cancer &lt;state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard&gt;.  Aquatic Acute 1, Short-term (acute) aquatic hazard — Acute Hazard, Category 1;  H400 Very toxic to aquatic life.  Aquatic Chronic 1, Long-term (chronic) aquatic hazard, Category 1;  H410 Very toxic to aquatic life with long lasting effects.  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.</p>
<b>Classification system:</b>	
	<p><b>Classification for health effects:</b> conventional (calculation) method is used or generic/ specific concentration limits:  Skin Irrit. 2, H315  Skin Sens. 1, H317  Eye Irrit. 2, H319  STOT SE 3, H335  <b>Classification for physico-chemical effects:</b>  Flam. Liq. 2, H225  <b>Classification for environmental effects:</b> conventional (calculation) method is used.  Aquatic Chronic 3, H412</p>
<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>Revision notes:</b>	
	The data safety sheet (SDS or MSDS) for this product has been revised to be in compliance with latest regulation and represent updated composition and newest available classification of the products constituents.
<b>DISCLAIMER OF LIABILITY:</b>	

**Kinetics Monomer  
KM008**

	<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>
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**END OF SAFETY DATA SHEET**