kinetics

SAFETY DATA SHEET

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

Version: 1

Date of compilation: 29.07.2022 **Revision:**

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

Product Name	Kinetics Green Shark Hardener		
Item number	KGSH01		
.2. Relevant identified uses of	the substance or mixture and uses advised against		
Identified uses	Cosmetic.		
	Professional/ Consumer use.		
Uses advised against	Manufacture of food products.		
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		
	e-mail: info@kineticsbeauty.com web: www.kineticsbeauty.com		
	e-mail: info@kineticsbeauty.com		

SECTION 2: Hazards identification

According to regulation (EC) No	Flam. Liq. 2 (H225) – Flammable liquids, Hazard Category 2.
1272/2008:	Eye Irrit. 2 (H319) – Serious eye damage/eye irritation, Hazard Category 2.
	STOT SE 3 (H336) – Specific target organ toxicity – Single exposure, Hazard
	Category 3, Narcosis.
	EUH066
Important adverse	Highly flammable liquid and vapour.
physicochemical, human health	Causes serious eye irritation.
and environmental effects:	May cause drowsiness or dizziness.
	Dependent of over only only on the developed of overlying
	Repeated exposure may cause skin dryness or cracking.
2.2. Label elements According to regulation (EC) No	
	Repeated exposure may cause skin dryness or cracking.
According to regulation (EC) No	Repeated exposure may cause skin dryness of cracking.
According to regulation (EC) No	

H336 May cause drowsiness or dizziness.

	ain: Ethyl acetate; n-Butyl acetate; Isopropanol. If medical advice is needed, have product container or label at hand. Keep out of reach of children.
P101	•
P102 P210 P233 P261 P264 P271 P280 P303- clothi P305- Remo P305- Remo P304- breat P312 P403-	Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Avoid breathing mist/vapours. Wash affected body parts/ hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection. +P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated ing. Rinse skin with water [or shower]. +P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. ove contact lenses, if present and easy to do. Continue rinsing. +P313 If eye irritation persists: Get medical advice/ attention. +P340 IF INHALED: Remove person to fresh air and keep comfortable for

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: Oxybenzone is under development under SEV for having endocrine disruptive properties by Denmark. At the date of compilation of this MSDS 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

	Not relevant.					
3.2. Mixtures						
Ingredient name [INCI]	INDEX Number	CAS Number	EINECS/ EC Number	Conc. (%)	Classification Regulation (EC) 1272/2008 (CLP)	Туре
Ethyl acetate [ETHYL ACETATE]	607-022-00-5	141-78-6	205-500-4	35-45	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2] [5]
n-Butyl acetate [BUTYL ACETATE]	607-025-00-1	123-86-4	204-658-1	25-30	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2] [5]
Cellulose nitrate [NITROCELLULOSE]	N/A	9004-70-0	618-392-2	10-20	Flam. Sol. 1, H228	
Propan-2-ol Isopropyl alcohol Isopropanol [ISOPROPYL ALCOHOL]	603-117-00-0	67-63-0	200-661-7	5-10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2] [5]
Glycollic acid [GLYCOLIC ACID]	N/A	79-14-1	201-180-5	<1	Skin Corr. 1B, H314 Eye Dam. 1, H318	[1]

					Acute Tox. 4, H332 EUH071	
Oxybenzone	N/A	131-57-7	205-031-5	<0.2	Aquatic Acute 1, H400	[1]
[BENZOPHENONE-3]					Aquatic Chronic 2, H411	
Butan-1-ol	603-004-00-6	71-36-3	200-751-6	<0.2	Flam. Liq. 3, H226	[1]
n-Butanol					Acute Tox. 4, H302	[2]
[N-BUTYL ALCOHOL]					Skin Irrit. 2, H315	[5]
					Eye Dam. 1, H318	
					STOT SE 3, H335	
					STOT SE 3, H336	

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

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. 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.
	In the event of any complaints or symptoms, avoid further exposure. 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.
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 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.
	Never give anything by mouth to an unconscious person. If unconscious, place
	in recovery position and get medical attention immediately. Maintain an open
	airway.
	ms and effects, both acute and delayed
Inhalation:	Harmful if inhaled - may cause effect on the brain or nervous system.
	Possible symptoms might be: Dizziness, headache or nausea, narcosis, loss of
	coordination, vomiting, difficulty with speech, reduced visibility, fatigue,
Chin anntantu	cough, unconsciousness.
Skin contact:	May cause skin dryness or cracking after repeated exposure.
	Symptoms might be as follows: Redness, inflammation, rash, urticaria, pain or
Fue contact:	irritation, skin cracking.
Eye contact:	May cause serious eye irritation.

	Symptoms might be as follows: Conjunctivitis, lacrimation, redness, pain or irritation, reversible cornea damage and swelling of eyes.
Ingestion:	May be harmful if ingested.
	Symptoms might be as follows: Gastrointestinal symptoms, such as nausea,
	vomiting, abdominal pain or irritation, and diarrhoea could develop.

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

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Specific treatments:	Treatment: Treat according to symptoms (decontamination, vital functions), no
specific dedificitis.	reactinent. Theat according to symptoms (accontaining tons), with renetions), no
	known specific antidote.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media	
Suitable extinguishing media:	Alcohol-resistant foam, dry chemical powder, carbon dioxide, water mist.
Unsuitable extinguishing media:	Do not use full power water jet.
5.2. Special hazards arising from the	substance or mixture
	Highly flammable liquid. Vapours may form explosive mixtures with air. Vapour may cause flash fires. Vapours may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create a fire or explosion hazard. Containers may explode when heated. Hazardous combustion products: Oxides of carbon, oxides of nitrogen, irritating organic vapours.
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

6.1.1. For non-emergency	No action shall be taken involving any personal risk or without suitable training.
	Evacuate surrounding areas. Immediately contact emergency services. Eliminate
personnel	
	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.
C 4 2 . Fan ann an Ann	
6.1.2. 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".
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 contain	ment and cleaning up
Small spill:	Stop leak if without risk. Move containers from spill area. Eliminate sources of
	ignition. Use non-sparking and explosion proof equipment. Dilute with water
	I ignition. Use non-sparking and explosion proof equipment. Didte with water

	inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill:	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.
6.4. Reference to other sec	tions
	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

 Precautions for safe handling Protective measures: 	Put on appropriate personal protective equipment (see Section "Exposur
Toteetive measures.	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 we
	ventilated areas. Keep container tightly closed when not in use. Provid
	emergency eye washing and shower facilities. Take precautions against stati
	discharge by earthing and bonding all containers and equipment befor
	transferring material. Use explosion proof electrical (ventilating, lighting an
	material handling) equipment. Avoid release to the environment. Keep in th
	original container or an approved alternative made from a compatible materia
	kept tightly closed when not in use. Empty containers retain product residue an
	can be hazardous. Do not reuse container.
Advice on general	Good industrial hygiene practices should be observed.
occupational hygiene:	Provide sufficient air exchange and/or exhaust in work rooms.
,011	Wash hands before work breaks and after finishing work.
	Do not eat, drink or smoke while working.
	Take off all contaminated clothing immediately.
	Use of dispensing equipment is recommended to minimise the risk of skin or ey
	contact.
	See also Section 8 for additional information on hygiene measures.
2. Conditions for safe storage,	including any incompatibilities
Storage:	Keep away from heat, hot surfaces, sparks, open flames and other ignitio
	sources. All equipment should be grounded. Store in accordance with loca
	regulations. Store in original container protected from direct sunlight in a dry
	regulationsi store in onginar container protected nom aneet samght in a di
	cool and well-ventilated area, away from incompatible materials (see sectio
	cool and well-ventilated area, away from incompatible materials (see sectio 10) and food and drink. Keep container tightly closed and sealed until ready fo use. Containers that have been opened must be carefully resealed and kep
	cool and well-ventilated area, away from incompatible materials (see sectio 10) and food and drink. Keep container tightly closed and sealed until ready for
	cool and well-ventilated area, away from incompatible materials (see sectio 10) and food and drink. Keep container tightly closed and sealed until ready fo use. Containers that have been opened must be carefully resealed and kep
	cool and well-ventilated area, away from incompatible materials (see sectio 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 key upright to prevent leakage. Do not store in unlabelled containers. Us
3. Specific end use(s)	cool and well-ventilated area, away from incompatible materials (see sectio 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 kep upright to prevent leakage. Do not store in unlabelled containers. Us appropriate containment to avoid environmental contamination.
3. Specific end use(s) Industrial sector specific	cool and well-ventilated area, away from incompatible materials (see sectio 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 kep upright to prevent leakage. Do not store in unlabelled containers. Us appropriate containment to avoid environmental contamination.

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.						
EU (Indicative Occupational Exposure	Limit Value (IOELV))						
Culote and a second	Limit val	ue 8 hours	Limit value	e short term			
Substance name	mg/m³	ppm	mg/m³	ppm			
Ethyl acetate ¹	ate ¹ 734 200 1468 400						
[ETHYL ACETATE]	rej						
n-Butyl acetate ²	241	50	723	150			

² COMMISSION DIRECTIVE (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC

Latvia (AER, reg. 325/2011):

Substance name	Limit valu	e 8 hours	Limit value short term		
Substance name	mg/m³	mg/m³ ppm		ppm	
Ethyl acetate	200	54	1468	400	
[ETHYL ACETATE]					
n-Butyl acetate	241	50	723	150	
[BUTYL ACETATE]					
Propan-2-ol	350	-	600	-	
Isopropyl alcohol					
Isopropanol					
[ISOPROPYL ALCOHOL]					
Butan-1-ol	-	-	154	50	
n-Butanol					
[N-BUTYL ALCOHOL]					
(Skin)					

Germany (TRGS 900):

Cubatanaa nama	Limit value 8 hours		Limit value	short term
Substance name	mg/m³	ppm	mg/m ³	ppm
Ethyl acetate	1500	400	-	-
[ETHYL ACETATE]				
n-Butyl acetate	300	62	-	-
[BUTYL ACETATE]				
Propan-2-ol	500	200	-	-
Isopropyl alcohol				
Isopropanol				
[ISOPROPYL ALCOHOL]				
Butan-1-ol	310	100	-	-
n-Butanol				
[N-BUTYL ALCOHOL]				
Kingdom (HSE, 2011):				
	Limit valu	e 8 hours	Limit value	short term

Substance name	Limit valu	ie 8 hours	Limit value short term		
Substance name	mg/m³ ppm		mg/m³	mg/m³	
Ethyl acetate	734	200	1468	400	
[ETHYL ACETATE]					
n-Butyl acetate	724	150	966	200	
[BUTYL ACETATE]					
Propan-2-ol	999	400	1250	500	

KGSH01							
Isopropyl alcohol							
Isopropanol							
[ISOPROPYL ALCOHOL]							
Butan-1-ol	-	-	154	50			
n-Butanol							
[N-BUTYL ALCOHOL]							
(Skin)							
		·					
Recommended monitoring	If this product cont	ains ingredients with	exposure limits, p	ersonal, workplace			
procedures:	atmosphere or bio	ological monitoring i	may be required	to determine the			
	effectiveness of the	ventilation or other of	control measures a	nd/or the necessity			
	to use respiratory	protective equipme	ent. Reference sh	ould be made to			
	-	EN 689 for method					
		cal agents and nationa	-	nts for methods for			
	the determination of	f hazardous substanc	es.				
8.2. Exposure controls							
Appropriate engineering controls:	Use local exhaust ve	entilation if concentra	tions in air could e	ceed occupational			
	exposure standard.						
Individual protection measures:							
Hygiene measures:	Eating, drinking and	smoking should be p	rohibited in areas	where this material			
	is handled, stored a	nd processed.					
	Workers should was	sh hands and face bef	ore eating, drinking	g and smoking.			
		ed clothing and prote		-			
	eating areas. Appropriate techniques should be used to remove potentially						
	contaminated clothi	ing. Wash contaminat	ed clothing before	reusing.			
Respiratory protection							
	Ensure adec	uate ventilation.					
		or respirator fitted wi	th an organic vapo	ur cartridge should			
	be worn if the produ	uct is used in a poorly	ventilated area.	-			
Eye/face protection:							
	Cofoty glass	aa with aida ahialda	or chamical cafaty	angelos should ha			
	worn if there is a ris		with side shields or chemical safety goggles should be				
Hand Protection:	worth in there is a ris	k of splastillig.					
hand Hoteetion.							
			274)				
		protective gloves (EN					
		practice the working I		-			
		derably shorter than 374 as a result of the					
	temperature). If signs of wear and tear are noticed then the gloves should be replaced.						
Skin protection:							
Skill protection.							
	Wear suitable prote	ctive clothing.					
Environmental exposure controls:	Γ						
	-	osed systems. If leaka					
		f at the emersion poir					
		clean exhaust air if	-				
		pliance with local					
		of leakage into the at	mosphere, or of en	try into waterways,			
	soil or drains.						

9.1. Information on basic physical and chemical properties				
a) Physical state	Liquid.			
b) Colour	Transparent.			
c) Odour	Not available.			
d) Melting point/freezing point	Not available.			
e) Initial boiling point and boiling range	> 35 °C			
f) Flammability	The product has not been tested but based on constituent classification and relevant concentration, the product is considered to be highly flammable liquid.			
g) Lower and upper explosion limit	Not available.			
h) Flash point	< 23°C			
i) Auto-ignition temperature	Not available.			
j) Decomposition temperature	Not available.			
k) рН	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

Flammable liquids	Highly flammable liquid (Flam. Liq. 2, H225) - The product has not been tested
	but based on constituent classification and relevant concentration, the product
	is considered to be highly flammable liquid.

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. On storage, it is slowly
	decomposed by water.
10.3. Possibility of hazardous	reactions
	Stable under recommended storage conditions.
	Stable under recommended storage conditions. Vapours may form explosive mixture with air.
10.4. Conditions to avoid	
10.4. Conditions to avoid	
10.4. Conditions to avoid	Vapours may form explosive mixture with air.
10.4. Conditions to avoid 10.5. Incompatible materials	Vapours may form explosive mixture with air.

Fumes produced when heated to decomposition may include: Oxides of
carbon and various organic and inorganic compounds.

SECTION 11: Toxicological information

11.1. Information on hazard classes as Acute toxicity	aeimea in Negulation	(LC) NO 12/1	27200	0		
Data on the product or its components						
Mixture/ Ingredient name	Result	Specie	es		Dose	Exposur
Ethyl acetate	LD ₅₀ Oral	Rabbit		4 934 m	ng/kg bw	-
[ETHYL ACETATE]	LC ₅₀ Inhalation	Mouse		33.5 mg		2 h
	LD ₅₀ Dermal	Rabbit		-	0 mg/kg bw	-
n-Butyl acetate	LD ₅₀ Oral	Rat - fer			/kg bw (calculated	-
[BUTYL ACETATE]				10760 r		
[]		Rat - ma			/kg (calculated 12 789	-
				mg/kg)		
	LD ₅₀ Dermal	Rabbit		16 mL/l	g bw (calculated	-
				14112 r	ng/kg)	
Propan-2-ol	LD ₅₀ Oral	Rat		5.84 g/l	kg bw	-
Isopropyl alcohol	LC ₅₀ Inhalation: Vapou	r Rat		> 10 00	-	6 h
Isopropanol						011
[ISOPROPYL ALCOHOL]	LD ₅₀ Dermal	Rabbit		16.4 ml	./kg bw	-
Glycollic acid	LD ₅₀ Oral	Rat			ng/kg bw	-
[GLYCOLIC ACID]	LC ₅₀ Inhalation: Aerose	ol Rat		3.6 mg/		4
Oxybenzone	LD ₅₀ Oral	Rat		> 12 80	0 mg/kg bw	-
[BENZOPHENONE-3]	LD ₅₀ Dermal	Rabbit		> 16 00	0 mg/kg bw	-
Butan-1-ol	LD ₅₀ Oral	Rat		ca. 2 29	2 mg/kg bw	-
n-Butanol	LC ₀ Inhalation: Vapour	. Rat		> 17.76	mg/L air	4 h
[N-BUTYL ALCOHOL]					_	
	LD ₅₀ Dermal	Rabbit		ca. 3 43	0 mg/kg bw	-
Conclusion/Summary:	Based on available da	ta, classifica		criteria r	iot met.	
Data on the product or its components			Eff	.		
Mixture/ Ingredient name	Slightly irritating		ETT	ect		
Ethyl acetate [ETHYL ACETATE]	Slightly irritating, Guideline: OECD Guide	alina 105 (A		vo Irrita	tion / Corrosion)	
	Species: Rabbit			ye innta		
		me)· 0 1 ml				
	Amount applied (volume): 0.1 ml Concentration: 100%, 30%, 10%, 3%					
	Duration of treatment			e applica	ation	
	Observation period (ir	-	-			10, 14,
	21 days				,,	
	Irritation parameter	Time point	Score	Max	Notes	
	•	•		score		
	Overall irritation	24 h	15	110	Fully reversible within	n: 14 dav
	score				,	,
	% Corneal swelling	24 h	106	-	Coefficient of variation	on 7.5%
Propan-2-ol	Category II - Causes se	rious eye irr	ritatio	n.		
Isopropyl alcohol	Guideline: OECD Guid	-			tion / Corrosion)	
Isopropanol						
[ISOPROPYL ALCOHOL]	Amount applied (volu	me): 0.1 ml				
	Concentration: 100%					
	Duration of treatment		Single	annlica	ation	

KOSHUI	Observation period (in		/6			
	Irritation parameter	Time point		Max	Notes	
	initiation parameter	inne point	score	score	NULES	
	Maximum mean total score (MMTS)	24 h	0-25	110	Might not be fully reversible within: 14 days	
	Cornea opacity score	24/48/72 h	2.67	4	Fully reversible within: 7 days	
	Iris score	24/48/72 h		2	Fully reversible within: 7 days	
	Conjunctivae score	24/48/72 h		3	Not fully reversible within: 10	
Glycollic acid [GLYCOLIC ACID]	Category 1 (irreversible effects on the eye) based on GHS criteria. Guideline: OECD Guideline 405 (Acute Eye Irritation / Corrosion) Species: Rabbit Amount applied (volume): 0.1 ml Concentration: 100% Observation period (in vivo): 14 days					
	Irritation parameter	Time point		Max score	Notes	
	Cornea opacity score	24/48/72 h	>-2	3	Not fully reversible	
	Conjunctivae score	24/48/72 h		3	Not fully reversible	
	Iris score	24/48/72 h			Not fully reversible	
	Chemosis score	24/48/72 h		0	Not specified	
Butan-1-ol	Category 1 (irreversible					
[N-BUTYL ALCOHOL]	Guideline: OECD Guideline 405 (Acute Eye Irritation / Corrosion) Species: Rabbit Amount applied (volume): 0.1 ml Concentration: 100% Duration of treatment / exposure: Single application					
	Observation period (in Irritation parameter	Time point			Notes	
	Cornea opacity score	24/48/72 h	2.11	4	Not fully reversible within: 7 days	
	Iris score	24/48/72 h	1	2	Not fully reversible within: 7 days	
	Conjunctivae score	24/48/72 h	2.89	3	Not fully reversible within: 7 days	
	Chemosis score	24/48/72 h	3	4	Not fully reversible within: 7 days	
Conclusion/Summary: Skin corrosion/irritation	According to classifica classified as irritating				CLP regulation, this product is 19).	
Data on the product or its components	:					
Mixture/ Ingredient name	-		Effect	t		
Ethyl acetate	Repeated exposure ma	ay cause skin		-	icking.	
[ETHYL ACETATE]		,	,		- U [.]	
n-Butyl acetate [BUTYL ACETATE]	Repeated exposure ma	ay cause skin	drynes	s or cra	icking.	
Glycollic acid [GLYCOLIC ACID]	c acid Category 1B (corrosive) based on GHS criteria					
	Duration of treatment Observation period (in			es, 1 h	our and 4 hours	

KGSHUI	Irritation parameter	Time point	Score	Max	Notes
			50010	score	Notes
	Erythema score	24/48/72 h	1-4	-	-
	Edema score	24/48/72 h		-	-
Butan-1-ol					
n-Butanol	Species: Rabbit				
[N-BUTYL ALCOHOL]	Amount applied (volu	ume): 0.1 ml			
	Concentration: 100%				
	Duration of treatmen	t / exposure	: Single a	pplicat	ion
	Observation period (i	n vivo): 7 da	ys		
	Irritation parameter	Time point	Score	Max score	Notes
	Erythema score	24/48/72 h	1.7-4	4	Not always fully reversible within: 8 days
	Edema score	24/48/72 h	0.7-2	4	Not always fully reversible within: 8 days
Conclusion/Summary:	Based on available data, classification criteria not met. Sunnlemental bazard				
Respiratory or skin sensitisation Data on the product or its components	:				
	No data on adverse e	ffects on hu	mans or a	animals	are available.
Conclusion/Summary:	Based on available data, classification criteria not met.				ot met.
Germ cell mutagenicity Data on the product or its components	::				
	No data on adverse e	ffects on hu	mans or a	animals	are available.
Conclusion/Summary:	Based on available data, classification criteria not met.				
Carcinogenicity Data on the product or its components	::				
	No data on adverse e	ffects on hu	mans or a	animals	s are available.
Conclusion/Summary:	Based on available data, classification criteria not met.				
Reproductive toxicity Data on the product or its components	::				
		ffects on hu	mans or a	animals	are available.
Conclusion/Summary:	No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met.				
Specific target organ toxicity - Single e Data on the product or its components					
Mixture/ Ingredient name			Effect	t	
Ethyl acetate	Hazard category: Spe	cific target o	rgan tox	icity —	Single exposure, Hazard
[ETHYL ACETATE]	Category 3, Narcosis.	-			
	Hazard statement: M Affected organs: Cen	-			ness.

(GSH01	
n-Butyl acetate	Hazard category: Specific target organ toxicity — Single exposure, Hazard
[BUTYL ACETATE]	
	Hazard statement: May cause drowsiness or dizziness.
	Affected organs: Central nervous system (CNS).
Propan-2-ol	Hazard category: Specific target organ toxicity — Single exposure, Hazard
Isopropyl alcohol	
Isopropanol	
[ISOPROPYL ALCOHOL]	
Butan-1-ol	Hazard category: Specific target organ toxicity — Single exposure, Hazard
n-Butanol	0 1 1
[N-BUTYL ALCOHOL]	
	Affected organs: Central nervous system (CNS). Hazard category: Specific target organ toxicity — Single exposure, Hazard
	Category 3, Respiratory tract irritation.
	Hazard statement: May cause respiratory irritation.
	Affected organs: respiratory tract, skin, eyes
Conclusion/Summary:	According to classification method described in CLP regulation, this product may cause drowsiness or dizziness (STOT SE 3, H336).
Specific target organ toxicity - Repeat Data on the product or its component	S:
	No data on adverse effects on humans or animals are available.
Conclusion/Summary:	Based on available data, classification criteria not met.
Aspiration hazard Data on the product or its component	
Aspiration hazard	
Aspiration hazard	s:
Aspiration hazard Data on the product or its component	s: No data on adverse effects on humans or animals are available.
Aspiration hazard Data on the product or its component Conclusion/Summary:	s: No data on adverse effects on humans or animals are available.
Aspiration hazard Data on the product or its component Conclusion/Summary: Potential acute health effects	s: No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met.
Aspiration hazard Data on the product or its component Conclusion/Summary: Potential acute health effects Inhalation:	s: No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met. Harmful if inhaled - may cause effect on the brain or nervous system. May cause skin dryness or cracking after repeated exposure. May cause serious eye irritation.
Aspiration hazard Data on the product or its component Conclusion/Summary: Potential acute health effects Inhalation: Skin contact:	s: No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met. Harmful if inhaled - may cause effect on the brain or nervous system. May cause skin dryness or cracking after repeated exposure.
Aspiration hazard Data on the product or its component Conclusion/Summary: Potential acute health effects Inhalation: Skin contact: Eye contact: Ingestion:	s: No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met. Harmful if inhaled - may cause effect on the brain or nervous system. May cause skin dryness or cracking after repeated exposure. May cause serious eye irritation. May be harmful if ingested.
Aspiration hazard Data on the product or its component Conclusion/Summary: Potential acute health effects Inhalation: Skin contact: Eye contact: Ingestion: Symptoms related to the physical, ch	s: No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met. Harmful if inhaled - may cause effect on the brain or nervous system. May cause skin dryness or cracking after repeated exposure. May cause serious eye irritation. May be harmful if ingested. emical and toxicological characteristics
Aspiration hazard Data on the product or its component Conclusion/Summary: Potential acute health effects Inhalation: Skin contact: Eye contact: Ingestion:	s: No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met. Harmful if inhaled - may cause effect on the brain or nervous system. May cause skin dryness or cracking after repeated exposure. May cause serious eye irritation. May be harmful if ingested. emical and toxicological characteristics Conjunctivitis, lacrimation, redness, pain or irritation, reversible cornea
Aspiration hazard Data on the product or its component Conclusion/Summary: Potential acute health effects Inhalation: Skin contact: Eye contact: Ingestion: Symptoms related to the physical, che Eye contact:	s: No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met. Harmful if inhaled - may cause effect on the brain or nervous system. May cause skin dryness or cracking after repeated exposure. May cause serious eye irritation. May be harmful if ingested. emical and toxicological characteristics Conjunctivitis, lacrimation, redness, pain or irritation, reversible cornea damage and swelling of eyes.
Aspiration hazard Data on the product or its component Conclusion/Summary: Potential acute health effects Inhalation: Skin contact: Eye contact: Ingestion: Symptoms related to the physical, ch	s: No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met. Harmful if inhaled - may cause effect on the brain or nervous system. May cause skin dryness or cracking after repeated exposure. May cause serious eye irritation. May be harmful if ingested. emical and toxicological characteristics Conjunctivitis, lacrimation, redness, pain or irritation, reversible cornea damage and swelling of eyes. Dizziness, headache or nausea, narcosis, loss of coordination, vomiting,
Aspiration hazard Data on the product or its component Conclusion/Summary: Potential acute health effects Inhalation: Skin contact: Eye contact: Eye contact: Ingestion: Symptoms related to the physical, cher Eye contact: Inhalation:	s: No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met. Harmful if inhaled - may cause effect on the brain or nervous system. May cause skin dryness or cracking after repeated exposure. May cause serious eye irritation. May be harmful if ingested. emical and toxicological characteristics Conjunctivitis, lacrimation, redness, pain or irritation, reversible cornea damage and swelling of eyes. Dizziness, headache or nausea, narcosis, loss of coordination, vomiting, difficulty with speech, reduced visibility, fatigue, cough, unconsciousness.
Aspiration hazard Data on the product or its component Conclusion/Summary: Potential acute health effects Inhalation: Skin contact: Eye contact: Ingestion: Symptoms related to the physical, che Eye contact: Inhalation: Skin contact:	s: No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met. Harmful if inhaled - may cause effect on the brain or nervous system. May cause skin dryness or cracking after repeated exposure. May cause serious eye irritation. May be harmful if ingested. emical and toxicological characteristics Conjunctivitis, lacrimation, redness, pain or irritation, reversible cornea damage and swelling of eyes. Dizziness, headache or nausea, narcosis, loss of coordination, vomiting, difficulty with speech, reduced visibility, fatigue, cough, unconsciousness. Redness, inflammation, rash, urticaria, pain or irritation, skin cracking.
Aspiration hazard Data on the product or its component Conclusion/Summary: Potential acute health effects Inhalation: Skin contact: Eye contact: Eye contact: Ingestion: Symptoms related to the physical, che Eye contact: Inhalation:	s: No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met. Based on available data, classification criteria not met. Harmful if inhaled - may cause effect on the brain or nervous system. May cause skin dryness or cracking after repeated exposure. May cause serious eye irritation. May be harmful if ingested. Emical and toxicological characteristics Conjunctivitis, lacrimation, redness, pain or irritation, reversible cornea damage and swelling of eyes. Dizziness, headache or nausea, narcosis, loss of coordination, vomiting, difficulty with speech, reduced visibility, fatigue, cough, unconsciousness. Redness, inflammation, rash, urticaria, pain or irritation, skin cracking. Gastrointestinal symptoms, such as nausea, vomiting, abdominal pain or
Aspiration hazard Data on the product or its component Conclusion/Summary: Potential acute health effects Inhalation: Skin contact: Eye contact: Ingestion: Symptoms related to the physical, che Eye contact: Inhalation: Skin contact: Skin contact:	s: No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met. Harmful if inhaled - may cause effect on the brain or nervous system. May cause skin dryness or cracking after repeated exposure. May cause serious eye irritation. May be harmful if ingested. emical and toxicological characteristics Conjunctivitis, lacrimation, redness, pain or irritation, reversible cornea damage and swelling of eyes. Dizziness, headache or nausea, narcosis, loss of coordination, vomiting, difficulty with speech, reduced visibility, fatigue, cough, unconsciousness. Redness, inflammation, rash, urticaria, pain or irritation, skin cracking.
Aspiration hazard Data on the product or its component Conclusion/Summary: Potential acute health effects Inhalation: Skin contact: Eye contact: Ingestion: Symptoms related to the physical, che Eye contact: Inhalation: Skin contact: Inhalation: Skin contact: Ingestion: Delayed and immediate effects and a	s: No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met. Based on available data, classification criteria not met. Harmful if inhaled - may cause effect on the brain or nervous system. May cause skin dryness or cracking after repeated exposure. May cause serious eye irritation. May be harmful if ingested. Emical and toxicological characteristics Conjunctivitis, lacrimation, redness, pain or irritation, reversible cornea damage and swelling of eyes. Dizziness, headache or nausea, narcosis, loss of coordination, vomiting, difficulty with speech, reduced visibility, fatigue, cough, unconsciousness. Redness, inflammation, rash, urticaria, pain or irritation, skin cracking. Gastrointestinal symptoms, such as nausea, vomiting, abdominal pain or
Aspiration hazard Data on the product or its component Conclusion/Summary: Potential acute health effects Inhalation: Skin contact: Eye contact: Ingestion: Symptoms related to the physical, che Eye contact: Inhalation: Skin contact: Inhalation: Skin contact: Ingestion: Delayed and immediate effects and a Short term exposure:	s: No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met. Harmful if inhaled - may cause effect on the brain or nervous system. May cause skin dryness or cracking after repeated exposure. May cause serious eye irritation. May be harmful if ingested. emical and toxicological characteristics Conjunctivitis, lacrimation, redness, pain or irritation, reversible cornea damage and swelling of eyes. Dizziness, headache or nausea, narcosis, loss of coordination, vomiting, difficulty with speech, reduced visibility, fatigue, cough, unconsciousness. Redness, inflammation, rash, urticaria, pain or irritation, skin cracking. Gastrointestinal symptoms, such as nausea, vomiting, abdominal pain or irritation, and diarrhoea could develop. Iso chronic effects from short- and long-term exposure
Aspiration hazard Data on the product or its component Conclusion/Summary: Potential acute health effects Inhalation: Skin contact: Eye contact: Ingestion: Symptoms related to the physical, che Eye contact: Inhalation: Skin contact: Inhalation: Skin contact: Ingestion: Delayed and immediate effects and a Short term exposure: Potential delayed effects:	S: No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met. Harmful if inhaled - may cause effect on the brain or nervous system. May cause skin dryness or cracking after repeated exposure. May cause serious eye irritation. May be harmful if ingested. emical and toxicological characteristics Conjunctivitis, lacrimation, redness, pain or irritation, reversible cornea damage and swelling of eyes. Dizziness, headache or nausea, narcosis, loss of coordination, vomiting, difficulty with speech, reduced visibility, fatigue, cough, unconsciousness. Redness, inflammation, rash, urticaria, pain or irritation, skin cracking. Gastrointestinal symptoms, such as nausea, vomiting, abdominal pain or irritation, and diarrhoea could develop.
Aspiration hazard Data on the product or its component Conclusion/Summary: Potential acute health effects Inhalation: Skin contact: Eye contact: Ingestion: Symptoms related to the physical, che Eye contact: Inhalation: Skin contact: Inhalation: Skin contact: Ingestion: Delayed and immediate effects and a Short term exposure:	s: No data on adverse effects on humans or animals are available. Based on available data, classification criteria not met. Harmful if inhaled - may cause effect on the brain or nervous system. May cause skin dryness or cracking after repeated exposure. May cause serious eye irritation. May be harmful if ingested. emical and toxicological characteristics Conjunctivitis, lacrimation, redness, pain or irritation, reversible cornea damage and swelling of eyes. Dizziness, headache or nausea, narcosis, loss of coordination, vomiting, difficulty with speech, reduced visibility, fatigue, cough, unconsciousness. Redness, inflammation, rash, urticaria, pain or irritation, skin cracking. Gastrointestinal symptoms, such as nausea, vomiting, abdominal pain or irritation, and diarrhoea could develop. Iso chronic effects from short- and long-term exposure

11.2. Information on other hazards	
Endocrine disrupting properties	
	Oxybenzone is under development under SEV for having endocrine disruptive properties by Denmark. At the date of compilation of this MSDS there was no hazard assessment outcome available to the best knowledge of the compiler of this MSDS.
Other information	
	No additional information is available.

SECTION 12: Ecological information

Aquatic toxicity					
Data on the product or its components	•				
Mixture/ Ingredient name		Species	Exposure	Dose	Effect conc.
Oxybenzone				3.8 mg/L	
[BENZOPHENONE-3]			48 h	EC ₅₀	1.87 mg/L
[0]	Algae - Raphidocelis subcapitata		72 h	EC50	0.41 mg/L
			3 h	EC ₅₀	> 100 mg/L
Conclusion/Summary:	-	available data, classification criter	ia not me	t.	
12.2. Persistence and degradability Data on the product or its components	:				
Mixture/ Ingredient name	CAS no.	Degradability	Те	est method/ Guideline	
Oxybenzone [BENZOPHENONE-3]	131-57-7	-57-7 Biodegradable. EEC Dir Degradation (O ₂ consumption), 28 (Part IV		Directive 79-831, Annex V IV Manometric irometry)	
Mixture/ Ingredient name Oxybenzone	s: Effect The bioaccumulation potential in aquatic species is considered to be low.				
			cies is cor	nsidered	to be low.
[BENZOPHENONE-3] 12.4. Mobility in soil Data on the product or its components		tic species): 36-158		nsidered	to be low.
				nsidered	to be low.
12.4. Mobility in soil Data on the product or its components	:	tic species): 36-158			to be low.
12.4. Mobility in soil Data on the product or its components Mixture/ Ingredient name	: Koc : 954.8	tic species): 36-158 Effect	<g (kow="" m<="" th=""><th>nethod)</th><th>to be low.</th></g>	nethod)	to be low.
12.4. Mobility in soil Data on the product or its components Mixture/ Ingredient name Oxybenzone	: Koc : 954.8 Log Koc: 2 nent nd abiotic d	tic species): 36-158 Effect 3 L/kg (MCI method); Koc : 2753 L/ .980 (MCI method); Log Koc: 3.440 egradation, bioaccumulation and to	<g (kow="" m<br="">(Kow met oxicity it c</g>	nethod) thod)	
 12.4. Mobility in soil Data on the product or its components Mixture/ Ingredient name Oxybenzone [BENZOPHENONE-3] 12.5. Results of PBT and vPvB assessme Regarding all available data on biotic a substance does not fulfil the PBT criter 12.6. Endocrine disrupting properties 	: Koc : 954.8 Log Koc: 2 nent nd abiotic d ia (not PBT)	tic species): 36-158 Effect 3 L/kg (MCI method); Koc : 2753 L/ .980 (MCI method); Log Koc: 3.440 egradation, bioaccumulation and to	<g (kow="" m<br="">(Kow met oxicity it c</g>	nethod) thod)	
 12.4. Mobility in soil Data on the product or its components Mixture/ Ingredient name Oxybenzone [BENZOPHENONE-3] 12.5. Results of PBT and vPvB assessm Regarding all available data on biotic a substance does not fulfil the PBT criter 	: Koc : 954. Log Koc: 2 nent nd abiotic d ia (not PBT) :	tic species): 36-158 Effect 3 L/kg (MCI method); Koc : 2753 L/ .980 (MCI method); Log Koc: 3.440 egradation, bioaccumulation and to	(Kow met (Kow met oxicity it c 3).	nethod) thod) an be sta	ated that the

12.7. Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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 disposa 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 o 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 no been cleaned or rinsed out. Empty containers or liners may retain some produc 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

	ADR/RID	ADN	IMDG	ΙΑΤΑ	
14.1. UN number or ID number	UN1993	UN1993	UN1993	UN1993	
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Ethyl acetate)				
14.3. Transport hazard class(es)	3	3	3	3	
14.4. Packing group	II	II	II	II	
14.5. Environmental hazards	NO	NO	NO	NO	
14.6. Special precautions for user	Classification code: F1 <u>Special provisions:</u> 274; 601; 640C <u>Limited quantity:</u> 1 L	<u>Classification code:</u> F1 <u>Special provisions:</u> 274; 601; 640C <u>Limited quantity:</u> 1 L	<u>Special provisions:</u> 274; 330; 944 <u>Limited quantity:</u> 1 L <u>Packaging:</u> Instructions:	Passenger Aircraft (PAX): IATA Limited quantities packaging instructions:	

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		_ , ,	5004	¥2.11
	Excepted quantity:	Excepted quantity:	P001	Y341
	E2 (inner packaging:		<u>IBC:</u>	IATA Max Limited
	30 mL/ outer	30 mL/ outer	Instructions:	Quantities per
	packaging: 500 mL)	packaging: 500 mL	IBC02	package:
	<u>Packaging:</u>	<u>Packaging:</u>	Portable tanks and	1 L
	Packaging	Packaging	<u>bulk containers:</u>	IATA Packaging
	instructions:	instructions:	IMO Tank	instructions:
	P001	P001	instructions:	353
	Mixed packaging	Mixed packaging	T4	
	provisions:	provisions:	UN Tank	<u>Cargo Aircraft</u>
	MP19	MP19	instructions:	<u>(CAO):</u>
	Portable tanks and	Portable tanks and	T7	Packaging
	<u>bulk containers:</u>	<u>bulk containers:</u>	Provisions:	instructions:
	Instructions:	Instructions:	TP1; TP8; TP28	364
	Τ7	T7	<u>EmS code:</u>	Max Limited
	Special provisions:	Special provisions:	F-E, S-E	Quantities per
	TP1; TP8; TP28	TP1; TP8; TP28	<u>Stowage and</u>	package:
	<u>ADR tank:</u>	<u>RID tank:</u>	<u>segregation:</u>	30 L
	Tank code:	Tank code:	Category B	
	L1.5BN	L1.5BN	Properties and	IATA Special
	<u>Vehicle for tank</u>	Transport category:	observations:	provisions:
	<u>carriage:</u>	2	-	A3
	FL	<u>Colis express</u>		
	Transport category:	(express parcels):		
	2	CE7		
	Tunnel restriction	<u>Hazard</u>		
	<u>code:</u>	identification:		
	(D/E)	33		
	Special provisions for			
	<u>carriage:</u>			
	Operation:			
	S2; S20			
	Hazard			
	identification:			
	33			
14.7. Maritime transport in bulk	Not applicable.			•
according to IMO instruments				
v				

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.

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	Substances of very high concern: None of the components are listed.
subject to authorization:	
Annex XVII - Restrictions	Not applicable.
on the manufacture,	
placing on the market and use of	
certain dangerous substances,	
mixtures and articles:	

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Abbreviations and acronyms:	
	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 stater	
	Flam. Liq. 2, Flammable liquids, Hazard Category 2;
	H225 Highly flammable liquid and vapour.
	Flam. Liq. 3, Flammable liquids, Hazard Category 3;
	H226 Flammable liquid and vapour.
	Flam. Sol. 1, Flammable solids, Hazard Category 1;
	H228 Flammable solid.
	Acute Tox. 4, Acute toxicity (oral), Hazard Category 4;
	H302 Harmful if swallowed.
	Skin Corr. 1B, Skin corrosion/irritation, Hazard Category 1B;
	H314 Causes severe skin burns and eye damage.
	Skin Irrit. 2, Skin corrosion/ irritation, Hazard Category 2;
	H315 Causes skin irritation.
	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.
	Acute Tox. 4, Acute toxicity (inhal.), Hazard Category 4;
	H332 Harmful if inhaled.
	STOT SE 3, Specific target organ toxicity — Single exposure, Hazard Category 3,
	Respiratory tract irritation;
	H335 May cause respiratory irritation.
	STOT SE 3, Specific target organ toxicity — Single exposure, Hazard Category 3,
	Narcosis;
	H336 May cause drowsiness or dizziness.

	Aquatic Acute 1, Short-term (acute) aquatic hazard — Acute Hazard, Category 1;
	H400 Very toxic to aquatic life.
	Aquatic Chronic 2, Long-term (chronic) aquatic hazard, Category 2;
	H411 Toxic to aquatic life with long lasting effects.
	EUH066 Repeated exposure may cause skin dryness or cracking.
	EUH071 Corrosive to the respiratory tract.
Classification system:	
	Classification for health effects: conventional (calculation) method is used or
	generic/specific concentration limits:
	Eye Irrit. 2, H319
	STOT SE 3, H336
	EUH066
	Classification for physico-chemical effects: expert judgment:
	Flam. Liq. 2, H225
	Classification for environmental effects:
	Not applicable
Training advice:	
5	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.
	mormation may not be applicable.

END OF SAFETY DATA SHEET