Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 9/28/2020 Version: 1.0

roduct form	ier	Mixture			
rade name		RAGNAROK ZERO			
	fied uses of the substance or		lvicod against		
		mixture and uses au	viseu agailist		
1.2.1. Relevant identi					
Main use category	: Ir	ndustrial use, Profession	al use		
1.2.2. Uses advised ag	ainst				
No additional informa	tion available				
1.3. Details of the s	upplier of the safety data she	et			
Comunica Concept 10 rue François Durafc 42160 Andrézieux Bou T 04.77.40.09.71 contact@aromes-et-liq	théon - FRANCE				
L.4. Emergency tele	phone number				
Country	Organisation/Company	Address		Emergency number	Comment
United Kingdom	National Poisons Information S (Birmingham Centre) City Hospital	Service Dudley Road B18 7QH Birmir	ngham	0344 892 0111	
	f the substance or mixture ng to Regulation (EC) No. 1272/2 tegory 3	2008 [CLP] H226 H317			
Full text of H statemer Adverse physicochem	its : see section 16 ical, human health and environr				
2.2. Label elements	vapour. May cause an allergic ski				
		[0:0]			
Hazard pictograms (CL	Regulation (EC) No. 1272/2008 P) :	GHS02 GHS0			
Signal word (CLP)			1		
Contains	: (: Warning : (E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one; 4-hydroxy-2,5- dimethylfuran-2(3H)-one; Methyl cinnamate			
Hazard statements (Cl		: H226 - Flammable liquid and vapour. H317 - May cause an allergic skin reaction.			
		P210 - Keep away from sources. No smoking.	heat, hot surfac vapours.	ces, sparks, open flames a	and other ignition

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures Name Product identifier % **Classification according to** Regulation (EC) No. 1272/2008 [CLP] acetic acid 99% (CAS-No.) 64-19-7 0.9 - 2Flam. Liq. 3, H226 (EC-No.) 200-580-7 Acute Tox. 4 (Dermal), H312 (EC Index-No.) 607-002-00-6 Skin Corr. 1A, H314 Eye Dam. 1, H318 0.9 – 2 ethyl butyrate (CAS-No.) 105-54-4 Flam. Liq. 3, H226 Eye Irrit. 2, H319 Flam. Liq. 2, H225 ethyl acetate (CAS-No.) 141-78-6 0.9 - 2(EC-No.) 205-500-4 Eye Irrit. 2, H319 (EC Index-No.) 607-022-00-5 STOT SE 3, H336 0.1 - 0.9Methyl cinnamate (CAS-No.) 103-26-4 Skin Sens. 1B, H317 (EC-No.) 203-093-8 4-hydroxy-2,5-dimethylfuran-2(3H)-one (CAS-No.) 3658-77-3 0.1 - 0.9Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 propionic acid 99% (CAS-No.) 79-09-4 0.1 - 0.9Flam. Liq. 3, H226 substance with a Community workplace exposure (EC-No.) 201-176-3 Skin Corr. 1B, H314 limit (EC Index-No.) 607-089-00-0 Eye Dam. 1, H318 STOT SE 3, H335 isopentyl acetate (CAS-No.) 123-92-2 < 0.1 Flam. Liq. 3, H226 substance with a Community workplace exposure (EC-No.) 204-662-3 limit (EC Index-No.) 607-130-00-2 (REACH-no) 01-2119548408-32 (E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-(CAS-No.) 23726-93-4 < 0.1 Skin Irrit. 2, H315 buten-1-one Skin Sens. 1A, H317 Aquatic Chronic 2, H411 isoamylic alcohol (CAS-No.) 123-51-3 < 0.1 Flam. Liq. 3, H226 substance with a Community workplace exposure (EC-No.) 204-633-5 Acute Tox. 4 (Inhalation), H332 limit Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 n-butyl acetate (CAS-No.) 123-86-4 < 0.1 Flam. Liq. 3, H226 substance with a Community workplace exposure (EC-No.) 204-658-1 STOT SE 3, H336 (EC Index-No.) 607-025-00-1 limit isobutyl acetate (CAS-No.) 110-19-0 < 0.1 Flam. Liq. 2, H225 (EC-No.) 203-745-1 substance with a Community workplace exposure limit (EC Index-No.) 607-026-00-7

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
acetic acid 99%	(CAS-No.) 64-19-7 (EC-No.) 200-580-7 (EC Index-No.) 607-002-00-6	(10 ≤C < 25) Skin Irrit. 2, H315 (10 ≤C < 25) Eye Irrit. 2, H319 (25 ≤C < 90) Skin Corr. 1B, H314 (90 ≤C ≤ 100) Skin Corr. 1A, H314

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propionic acid 99%	(CAS-No.) 79-09-4 (EC-No.) 201-176-3	(10 ≤C < 25) Skin Irrit. 2, H315 (10 ≤C < 25) Eye Irrit. 2, H319
	(EC Index-No.) 607-089-00-0	(10 ≤C ≤ 100) STOT SE 3, H335 (25 ≤C ≤ 100) Skin Corr. 1B, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures 4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2 Most important symptoms and offs	wets, both acute and delayed

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

Symptoms/effects after skin contact : May cause an allergic skin reaction.

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

Treat symptomatically.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard	: Flammable liquid and vapour.	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
SECTION 6: Accidental release measures		

SECTION 0. ACCIDENTAL TELEASE INEASU	
6.1. Personal precautions, protective equi	ipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containme	nt and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

For further information refer to section 13.

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SECTION 7: Handling and storage 7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
ethyl acetate (141-78-6)		
EU - Occupational Exposure Limits		
Local name	Ethyl acetate	
IOELV TWA (mg/m ³)	734 mg/m ³	
IOELV TWA (ppm)	200 ppm	
IOELV STEL (mg/m ³)	1468 mg/m ³	
IOELV STEL (ppm)	400 ppm	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164	

acetic acid 99% (64-19-7)		
EU - Occupational Exposure Limits		
Local name	Acetic acid	
IOELV TWA (mg/m³)	25 mg/m ³	
IOELV TWA (ppm)	10 ppm	
IOELV STEL (mg/m ³)	50 mg/m ³	
IOELV STEL (ppm)	20 ppm	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164	

isobutyl acetate (110-19-0)		
EU - Occupational Exposure Limits		
Local name	Isobutyl acetate	
IOELV TWA (mg/m³)	241 mg/m ³	
IOELV TWA (ppm)	50 ppm	
IOELV STEL (mg/m ³)	723 mg/m ³	
IOELV STEL (ppm)	150 ppm	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831	

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isopentyl acetate (123-92-2)		
EU - Occupational Exposure Limits		
Local name	Isopentylacetate	
IOELV TWA (mg/m³)	270 mg/m ³	
IOELV TWA (ppm)	50 ppm	
IOELV STEL (mg/m ³)	540 mg/m ³	
IOELV STEL (ppm)	100 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	

isoamylic alcohol (123-51-3)		
EU - Occupational Exposure Limits		
Local name	Isoamyl alcohol	
IOELV TWA (mg/m ³)	18 mg/m ³	
IOELV TWA (ppm)	5 ppm	
IOELV STEL (mg/m³)	37 mg/m ³	
IOELV STEL (ppm)	10 ppm	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831	

n-butyl acetate (123-86-4)	
EU - Occupational Exposure Limits	
Local name	n-Butyl acetate
IOELV TWA (mg/m³)	241 mg/m ³
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m³)	723 mg/m ³
IOELV STEL (ppm)	150 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831

propionic acid 99% (79-09-4)	
EU - Occupational Exposure Limits	
Local name	Propionic acid
IOELV TWA (mg/m ³)	31 mg/m ³
IOELV TWA (ppm)	10 ppm
IOELV STEL (mg/m ³)	62 mg/m ³
IOELV STEL (ppm)	20 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
8.2. Exposure controls	

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:	
Protective gloves	

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Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and chemical properties	
Physical state	: Liquid
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 47 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.03 (1.01 – 1.05)
Solubility	: soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	

No additional information available

SECTION 10: Stability and reactivity 10.1. Reactivity Flammable liquid and vapour.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ethyl acetate (141-78-6)	
LD50 oral	4934 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 20000 mg/kg bodyweight Animal: rabbit, Animal sex: male

acetic acid 99% (64-19-7)	
LD50 oral rat	3310 mg/kg bodyweight Animal: rat
LD50 oral	4960 mg/kg bodyweight Animal: mouse

isobutyl acetate (110-19-0)	
	13413 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
	> 17400 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

isoamylic alcohol (123-51-3)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	≈ 3216 mg/kg bodyweight Animal: rabbit, Animal sex: male, 95% CL: 2373 - 4350

(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one (23726-93-4)	
LD50 oral rat	> 2000 mg/kg

Methyl cinnamate (103-26-4)	
LD50 oral rat	2610 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2000 - 3410
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

propionic acid 99% (79-09-4)	
LD50 oral rat	3455.1 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2978,9 - 4007,5
LD50 dermal rat	3235 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 inhalation rat (mg/l)	> 20 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
ethyl acetate (141-78-6)	
LOAEL (oral, rat, 90 days)	3600 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
acetic acid 99% (64-19-7)	
NOAEL (oral, rat, 90 days)	290 mg/kg bodyweight Animal: rat, Animal sex: male
isoamylic alcohol (123-51-3)	
NOAEL (oral, rat, 90 days)	1250 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadi	en-1-yl)-2-buten-1-one (23726-93-4)

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short- term (acute)	: Not classified
Hazardous to the aquatic environment, long- term (chronic)	: Not classified
Not rapidly degradable	

ethyl acetate (141-78-6)	
LC50 fish 1	230 mg/l Test organisms (species): Pimephales promelas
NOEC (chronic)	2.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

acetic acid 99% (64-19-7)	
LC50 fish 1	> 1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 fish 2	> 300.82 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 Daphnia 1	> 1000 mg/l Test organisms (species): Daphnia magna
EC50 Daphnia 2	> 300.82 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	> 1000 mg/l Test organisms (species): Skeletonema costatum
EC50 72h algae (2)	> 300.82 mg/l Test organisms (species): Skeletonema costatum

isobutyl acetate (110-19-0)	
LC50 fish 1	17 mg/l Test organisms (species): Oryzias latipes
EC50 Daphnia 1	25 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	370 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h algae (2)	250 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	23 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

isopentyl acetate (123-92-2)	
LC50 fish 1	22 – 46 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 Daphnia 1	42 mg/l Test organisms (species): other:Daphnia magna STRAUS

isoamylic alcohol (123-51-3)	
LC50 fish 1	700 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 Daphnia 1	255 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	> 500 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h algae (2)	493 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h algae (1)	274 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h algae (2)	181 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one (23726-93-4)	
LC50 fish 1	1.09 mg/l
EC50 Daphnia 1	9 mg/l
EC50 72h algae (1)	8.3 mg/l

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n-butyl acetate (123-86-4)	
LC50 fish 1	18 mg/l Test organisms (species): Pimephales promelas
EC50 Daphnia 1	44 mg/l Test organisms (species): Daphnia sp.
EC50 72h algae (1)	674.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	23 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Methyl cinnamate (103-26-4)	
LC50 fish 1	2.76 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 Daphnia 1	24 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	7.6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

propionic acid 99% (79-09-4)	
LC50 fish 1	> 10000 mg/l Test organisms (species): Leuciscus idus
EC50 Daphnia 1	> 500 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	> 500 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Flammable vapours may accumulate in the container.

SECTION 14: Transport information		
In accordance with ADR / RID) / IMDG / IATA / ADN	
ADR	IMDG	ΙΑΤΑ
14.1. UN number		
UN 1197	UN 1197	UN 1197
14.2. UN proper shipping name		
EXTRACTS, FLAVOURING, LIQUID	EXTRACTS, FLAVOURING, LIQUID	Extracts, flavouring, liquid

		5 (-)
Transport document description	on	
UN 1197 EXTRACTS, FLAVOURING, LIQUID, 3, III, (D/E)	UN 1197 EXTRACTS, LAVOURING, LIQUID, 3, III	UN 1197 Extracts, flavouring, liquid, 3, III
14.3. Transport hazard clas	ss(es)	
3	3	3
14.4. Packing group		
III	III	111
14.5. Environmental hazard	ds	
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information	n available	
14.6. Special precautions fo	r user	
Overland transport		
Classification code (ADR)	: F1	
Special provisions (ADR)	: 60	1
Limited quantities (ADR)	: 51	
Excepted quantities (ADR)	: E1	
Packing instructions (ADR)		01, IBC03, LP01, R001
Mixed packing provisions (ADR)		P19
Portable tank and bulk containe (ADR)	er instructions : T2	
Portable tank and bulk container special : TP: provisions (ADR)		1
Tank code (ADR)	: LG	BF
Vehicle for tank carriage	: FL	
Transport category (ADR)	: 3	
Special provisions for carriage -		
Special provisions for carriage -		
Hazard identification number (K Orange plates	Kemler No.) : 30 :	30 1197
Tunnel restriction code (ADR)	: D/	
EAC code : 3YE		E
Transport by sea		
		3, 955
Limited quantities (IMDG)	: 5 L	
Excepted quantities (IMDG)	: E1	
Packing instructions (IMDG)		01, LP01
IBC packing instructions (IMDG) : IBC		
Tank instructions (IMDG) : T2		

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: TP1
: F-E
: S-D
: A
: Usually consist of alcoholic solutions. Miscibility with water depends upon the composition.
: E1
: Y344
: 10L
: 355
: 60L
: 366
: 220L
: A3
: 3L

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard

International Air Transport Association
International Maritime Dangerous Goods
Median lethal concentration
Median lethal dose
Lowest Observed Adverse Effect Level
No-Observed Adverse Effect Concentration
No-Observed Adverse Effect Level
No-Observed Effect Concentration
Occupational Exposure Limit
Persistent Bioaccumulative Toxic
Predicted No-Effect Concentration
Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
Regulations concerning the International Carriage of Dangerous Goods by Rail
Safety Data Sheet
Very Persistent and Very Bioaccumulative
Water Hazard Class

Full text of H- and EUH-statements:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
Skin Corr. 1	Skin corrosion/irritation, Category 1	
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1A	Skin sensitisation, category 1A	
Skin Sens. 1B	Skin sensitisation, category 1B	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.