



Material Safety Data Sheet

According to Regulation No 1907/2006/EC – REACH, No. 2020/878 and No 1272/2008/EC - CLP

Date of revision : 05/27/2021

Version No: 5.0
Replaced version No: 4.3

SECTION 1	Identification of the substance/mixture and of the company/undertaking	
1.1	Product identifier	FOTONAL
	#Other name or labelling of product:	Not specified
	#UFI	Unallocated
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Concentrate surfactants for processing photographic materials	
1.3	Details of the supplier of the safety data sheet	
	Supplier : Downstream User (Producer Mixture)	FOMA BOHEMIA spol. s r.o. (Ltd.) J. Krušinky 1737/6, 50002 Hradec Králové tel: 495 733 111
	E-mail address and phone number	ilona.spackova@foma.cz +420495733368
1.4	Emergency telephone number	EU Poison Information Centres – see section 16

SECTION 2	Hazards identification	
2.1	Classification of the substance or mixture (according to Regulation No 1272/2008 – CLP) The mixture is not classified as dangerous	
	<u>The most important adverse physicochemical, human health and environmental effects:</u> Not specified.	

2.2	Label elements (according to Regulation No 1272/2008/EC– CLP)	
<i>hazard pictogram</i>		irrelevant
<i>signal word</i>		irrelevant
<i>hazard statement(s) (H- phrases)</i>		irrelevant
<i>precautionary statement (P- phrases)</i>		irrelevant

2.3	Other hazards
	#The substance does not belong to the category of PBT, vPvB and are not included in the list drawn up in accordance with Article 59 (1) of REACH

SECTION 3		Composition/information on ingredients			
3.2		#Mixtures			
Folder name	Identification number		Content % mass in the solution	Classification	SCL, M, ATE, note
Polyoxyethylene ether of oleyl alcohol (Rokanol O18)	CAS number ES number Index number Registration number	9004-98-2 Polymer Not available Not available	< 1	Skin Irrit2;H315 Eye Irrit2;H319	Not available
Capstone FS-31 (partially fluorinated alkyl polyether)	CAS number ES number Index number Registration number	Not available Not available Not available Not available	< 1	STOT RE2;H373	Not available

Solution

(Full text H-phrases... section 16)

SECTION 4	First aid measures
4.1	Description of first aid measures
	#Prompt medical help is necessary if in eyes.
	After contact with skin: To take off immediately all contaminated clothing. Wash affected area thoroughly with water.
	Eye Contact: Remove any contact lenses and eye as soon as possible wash with plenty water. If necessary, open up violence cramped eyelids. Avoid contamination not contaminated eye wash liquid.. Do not neutralize. Seek medical help.
	#Exposure by inhalation: Remove patient to fresh air; to get medical advice if affected person feels unwell.
	#Ingestion: Affected person calm, clear water rinse. Place to drink a glass (about 0.25-0,5 litre) of lukewarm water. Do not induce vomiting. If affected person vomit spontaneously, control to prevent inhalation of vomit. Do not administer activated charcoal, and no neutralizing agent. Call a physician or transport the affected person to a doctor.
	#Personal protective equipment for first aid responders: In possible exposition is recommended using of personal protective equipments in accordance with section 8
4.2	Most important symptoms and effects, both acute and delayed
	Not known
4.3	Indication of any immediate medical attention and special treatment needed
	#Specific instruction is not known, symptomatic medical treatment

SECTION 5	Firefighting measures
5.1	Extinguishing media
	The product (liquid solution) is not flammable. Extinguishing agents adapt burning nearby. Inappropriate extinguishing media: N.a.
5.2	Special hazards arising from the substance or mixture
	#The mixture is non-flammable. Contains a substance which, when burned, can produce dangerous products: hydrogen fluoride, carbonyl fluoride, carbon oxides, potentially toxic fluorinated compounds. However, the content of this substance in the mixture is negligible .
5.3	#Advice for firefighters: workwear , respirator

SECTION 6	Accidental release measures
6.1	Personal precautions, protective equipment and emergency procedures
	Zoom out persons not participating in the elimination of consequences of the accident out of reach. Ventilate enclosed spaces. When removing the consequences of the accident using the prescribed personal protective equipment. When working on the disposal of the accident contained breathing apparatus and full protective suit. No smoking and treatment with an open fire.
6.2	Environmental precautions
	Do not allow substance to enter soil, sewage system, surface and groundwater.
6.3	Methods and material for containment and cleaning up
	Let soak it to inert absorption products. Rinse the affected area thoroughly with water. Small leak at least strongly dilute with water.
6.4	Reference to other sections
	#See section 8 and 13

SECTION 7	Handling and storage
7.1	Precautions for safe handling
	While working to comply with basic requirements of safe work. Wear recommended personal protective equipment. Avoid contact with eyes. By manipulation prohibits eating, drinking and smoking, working with hot materials and open flame. Equipment must be equipped with means of extinguishing in enclosed areas, ventilation should be provided, either naturally or forced. Workplaces must be kept clean and escape routes must remain free.
7.2	Conditions for safe storage, including any incompatibilities
	Store in original containers in a cool, dry and well ventilated place. Containers should be stored separately from food. The working solution prepare according to the instructions.
7.3	Specific end use(s)
	See in 1.2. , Other uses – not specified

SECTION 8	Exposure controls/personal protection				
8.1	Control parameters				
EU Occupational Exposure Limit Values: Substance is not specified International limit values for chemical agents (Occupational exposure limits, OELs):not available					
#Thermal decomposition products of Capstone FS-31: International limit values for chemical agents (Occupational exposure limits, OELs) for products					
Hydrogen fluoride as F (CAS 7664-39-3)					
Limit value - Eight hours					
Limit value - Short term					
ppm					
mg/m ³					
Australia	1,8	1,5	3 (1)	2,6 (1)	
Austria	1,8	1,5	3	2,5	
Belgium	1,8	1,5	3	2,5	
Canada - Ontario	0,5		2 (1)		
Canada - Québec			3 (1)	2,6 (1)	
Denmark	1,8	1,5	3,6	3	
European Union	1,8 (1)	1,5 (1)	3 (1)(2)	2,5 (1)(2)	
France	1,8	1,5	3	2,5	
Germany (AGS)	1 (1)	0,83 (1)	2 (1)(2)	1,66 (1)(2)	
Germany (DFG)	1	0,83	2 (1)	1,66 (1)	
Hungary		1,5		2,5	
Ireland	1,8	1,5	3 (1)	2,5 (1)	
Italy	1,8	1,5	3 (1)	2,5 (1)	
Japan (MHLW)	0,5 (1)				
Latvia	1,8	1,5	3 (1)	2,5 (1)	
Norway	0,6 (1)	0,5 (1)	1,8 (1)(2)	1,5 (1)(2)	
People's Republic of China				2 (1)	
Poland		0,5		2	
Singapore			3	2,6	
South Korea	0,5		3 (1)	2,5 (1)	
Spain	1,8	1,5	3	2,5	
Sweden			2 (1)	1,7 (1)	
Switzerland	1	0,83	2	1,66	
The Netherlands				1	
USA - NIOSH	3	2,5	6 (1)	5 (1)	
USA - OSHA	3				
United Kingdom	1,8	1,5	3	2,5	
Remarks					
Australia	(1) Ceiling limit value				
Canada - Ontario	(1) Ceiling limit value				
Canada - Québec	(1) Ceiling limit value				
European Union	Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~ (1) Calculated as HF (2) 15 minutes average value (for references see bibliography)				
France	Bold type: Restrictive statutory limit values Valid for: Hydrogen fluoride				
Germany (AGS)	(1) Skin (2) 15 minutes average value				
Germany (DFG)	(1) 15 minutes average value				
Ireland	(1) 15 minutes reference period				
Italy	(1) 15 minutes average value				
Japan (MHLW)	(1) Calculated as HF				
Latvia	(1) 15 minutes average value				
Norway	(1) Skin (2) 15 minutes average value				
People's Republic of China	(1) Ceiling limit value				
South Korea	(1) Ceiling limit value				
Sweden	(1) 15 minutes average value				
USA - NIOSH	(1) 15 minutes average value				

Carbonyl fluoride CAS 353-50-4

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Australia	2	5,4	5	13
Belgium	2	5,5	5 (1)	13 (1)
Canada - Ontario	2		5	
Canada - Québec	2	5,4	5	13
Denmark	2	6	4	12
Finland			2 (1)	5,5 (1)
France	2	5		
Ireland	2	5,4	5 (1)	13 (1)
New Zealand	2	5,4	5	13
Norway	2	5		
People's Republic of China		5		10 (1)
Singapore	2	5,4	5	13
South Korea	2	5	5	15
Spain	2	5,5	5	14
Switzerland	2	5		
The Netherlands				1
USA - NIOSH	2	5	5 (1)	15 (1)
	Remarks			
Belgium	(1) 15 minutes average value			
Finland	(1) 15 minutes average value			
Ireland	(1) 15 minutes reference period			
People's Republic of China	(1) 15 minutes average value			
The Netherlands	Calculated as F			
USA - NIOSH	(1) 15 minutes average value			

Fluorides as F

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Australia		2,5		
Belgium		2,5		
Canada - Ontario		2,5		
Canada - Québec		2,5		
Denmark		2,5		5
Finland		2,5		
France		2,5		
Germany (AGS)		1 inhalable aerosol		4 inhalable aerosol
Germany (DFG)		1 inhalable aerosol		4 inhalable aerosol
Ireland		2,5		
Italy		2,5		
New Zealand		2,5 (1)		
People's Republic of China		2		
Poland		2		
Romania		2,5 (1)		
Singapore		2,5		
South Korea		2,5		
Switzerland		1 inhalable aerosol		4 inhalable aerosol
The Netherlands				2
USA - NIOSH		2,5		
USA - OSHA		2,5		
	Remarks			
France	Italic type: Indicative statutory limit values			
Germany (AGS)	STV 15 minutes average value			
Germany (DFG)	STV 15 minutes average value			
Italy				

New Zealand	(1) Exposure can also be estimated by biological monitoring.
Romania	(1) inorganic
The Netherlands	Applies for inorganic, soluble fluorides. As F

Carbon dioxide CAS 124-38-9

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Australia	5000	9000	30000	54000
	12500 (1)	22500 (1)	30000 (1)	54000 (1)
Austria	5000	9000	10000	18000
Belgium	5000 (1)	9131 (1)	30000 (1)(2)	54784 (1)(2)
Canada - Ontario	5000		30000	
Canada - Québec	5000	9000	30000	54000
Denmark	5000	9000	10000	18000
European Union	5000	9000		
Finland	5000	9100		
France	<i>5000</i>	<i>9000</i>		
Germany (AGS)	5000	9100	10000 (1)	18200 (1)
Germany (DFG)	5000	9100	10000 (1)	18200 (1)
Hungary		9000		
Ireland	5000	9000	15000 (1)	27000 (1)
Italy	5000	9000		
Japan (JSOH)	5000	9000		
Latvia	5000	9000		
New Zealand	5000	9000	30000	54000
Norway	5000	9000		
People's Republic of China		9000		18000 (1)
Poland		9000		27000
Romania	5000	9000		
Singapore	5000	9000	30000	54000
South Korea	5000	9000	30000	54000
Spain	5000	9150	15000	27400
Sweden	5000	9000	10000 (1)	18000 (1)
Switzerland	5000	9000		
The Netherlands		9000		
Turkey	5000	9000		
USA - NIOSH	5000	9000	30000 (1)	54000 (1)
USA - OSHA	5000	9000		
United Kingdom	5000	9150	15000	27400

	Remarks
Australia	(1) in coal mines
Belgium	(1) Additional indication "A" means that this agent releases gas or vapor which has no physiological effect but lowers the oxygen content in the air. When the oxygen content is below 17-18% (vol/vol) it causes suffocation without a warning preceding it. (2) 15 minutes average value
European Union	Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~ (for references see bibliography)
France	Italic type: Indicative statutory limit values
Germany (AGS)	(1) 15 minutes average value
Germany (DFG)	(1) 15 minutes average value
Ireland	(1) 15 minutes reference period
People's Republic of China	(1) 15 minutes average value
Sweden	(1) 15 minutes average value
USA - NIOSH	(1) 15 minutes average value

Carbon monoxid CAS 630-08-0

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Australia	30	34		
Austria	20	23	60 (1)	66 (1)
Belgium	20	23	100 (1)	117 (1)

Canada - Ontario	25			
Canada - Québec	35	40	200	230
Denmark	20	23	40 (2)	46 (2)
	25 (1)	29 (1)	50 (1)(2)	68 (1)(2)
European Union	20	23	100 (1)	117 (1)
Finland	20	23	75 (1)	87 (1)
France	20	23	100 (1)	117 (1)
Germany (AGS)	30	35	60 (1)	70 (1)
Germany (DFG)	30	35	60 (1)	70 (1)
Hungary		33		66
Ireland	20	23	100 (1)	117 (1)
Italy	20 (1)	23 (1)	100 (1)(2)	117 (1)(2)
Japan (JSOH)	50	57		
Latvia	17	20	100 (1)	117 (1)
New Zealand	25		400 (1)	
			200 (2)	
			100 (3)	
Norway	20	23	100 (1)	117 (1)
People's Republic of China		20 (1)		30 (1) (4)
				20 (2)
				15 (3)
Poland		23		117
Romania	20	23	100 (1)	117 (1)
Singapore	25	29		
South Korea	30	34	200	229
Spain	20 (1)	23 (1)	100 (1)(2)	117 (1)(2)
Sweden	20	23	100 (1)	117 (1)
Switzerland	30	35	60	70
The Netherlands		29		
USA - NIOSH	35	40	200 (1)	229 (1)
USA - OSHA	50	55		
Carbon monoxid CAS 630-08-0				
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Australia	30	34		
Austria	20	23	60 (1)	66 (1)
Belgium	20	23	100 (1)	117 (1)
Canada - Ontario	25			
Canada - Québec	35	40	200	230
Denmark	20	23	40 (2)	46 (2)
	25 (1)	29 (1)	50 (1)(2)	68 (1)(2)
European Union	20	23	100 (1)	117 (1)
Finland	20	23	75 (1)	87 (1)
France	20	23	100 (1)	117 (1)
Germany (AGS)	30	35	60 (1)	70 (1)
Germany (DFG)	30	35	60 (1)	70 (1)
Hungary		33		66
Ireland	20	23	100 (1)	117 (1)
Italy	20 (1)	23 (1)	100 (1)(2)	117 (1)(2)
Japan (JSOH)	50	57		
Latvia	17	20	100 (1)	117 (1)
New Zealand	25		400 (1)	
			200 (2)	
			100 (3)	
Norway	20	23	100 (1)	117 (1)
People's Republic of China		20 (1)		30 (1) (4)
				20 (2)
				15 (3)

	Poland		23		117
	Romania	20	23	100 (1)	117 (1)
	Singapore	25	29		
	South Korea	30	34	200	229
	Spain	20 (1)	23 (1)	100 (1)(2)	117 (1)(2)
	Sweden	20	23	100 (1)	117 (1)
	Switzerland	30	35	60	70
	The Netherlands		29		
	USA - NIOSH	35	40	200 (1)	229 (1)
	USA - OSHA	50	55		
	United Kingdom	20	23	100 (2)	117 (2)
		30 (1)	35 (1)	200 (1)(2)	232 (1)(2)
			Remarks		
	Austria	(1) 15 minutes average value			
	Belgium	(1) 15 minutes average value			
	Denmark	(1) In mining and tunnel construction, until 21 August 2023 applies to Carbon monoxide. (2) 15 minutes average value			
	European Union	(1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~ (for references see bibliography)			
	Finland	(1) 15 minutes average value			
	France	Bold type: Restrictive statutory limit values (1) 15 minutes average value			
	Germany (AGS)	(1) 15 minutes average value			
	Germany (DFG)	(1) 15 minutes average value			
	Ireland	(1) 15 minutes average value			
	Italy	(1) For mining and tunnel activities only: the limit value applies from 22 August 2023 (D.l. 02.05.2020; paragraph 1, art. 2) (2) 15 minutes average value			
	Latvia	(1) 15 minutes average value			
	New Zealand	(1) Ceiling limit value (2) 15 minutes average value (3) 30 minutes average value (4) 60 minutes average value			
	Norway	(1) 15 minutes average value			
	People's Republic of China	(1) not in high altitude area (2) in high altitude area (2000-3000m) ceiling limit value (3) in high altitude area (> 3000m) ceiling limit value (4) 15 minutes average value			
	Romania	(1) 15 minutes average value			
	Spain	(1) For this agent there is a transitional period, which will end, at the latest, the Member States may continue to apply the national limit value August 21, 2023, for the underground mining and tunnel construction sectors. During this period it will be applicable in these sectors before the end of this period (2) 15 minutes average value			
	Sweden	(1) 15 minutes average value			
	USA - NIOSH	(1) Ceiling limit value			
	United Kingdom	(1) Values in italics are limits applicable to underground mining & tunnelling industries ONLY until 21/8/23 (2) 15 minutes average value			
8.2	Exposure controls				
	Individual protection measures, incl. protective equipment				
	Technical measures: Working with a local source of suction and running water for the irrigation needs of the eyes, wash your hands or contaminated parts of the skin.				
	Tightly closed containers and equipment, natural and mechanical ventilation. Do not allow product to the eyes, mouth, inhalation, skin contact. Do not eat, drink or smoke. Avoid contact with food substances and drinks. After work wash hands with soap and water. Alternatively, take off contaminated clothing.				
	Respiratory protection: During normal handling is not required.				
	Hand protection: Use rubber (PE, nitril) gloves - recommend				
	Eye protection: During normal handling is not required.				
	Skin protection: During normal handling is not required.				
	Environmental exposure: Provide preventing spill into waterways, soil and drainage.				

SECTION 9	Physical and chemical properties	
9.1	Information on basic physical and chemical properties	
	Appearance	Slightly yellow liquid
	Odour	Moderate, nonspecific
	pH	about 4-5
	Melting point/freezing point	about 0 °C
	Initial boiling point and boiling range	about 100 °C
	#Flash point	Not determined for the mixture - the product is non-flammable (Rokanol O18 component:> 200 °C - open crucible, no data available for Capstone FS-31 component)
	Flammability	Inflammable
	Upper/lower flammability or explosive limits	Irrelevant
	Vapour pressure	< 20mbar
	Vapour density	Information is not available
	#Absolute density	1.0 g/cm ³
	Solubility – water	Water solution- full blended
	Partition coefficient: n-octanol/water	Irrelevant
	#Auto-ignition temperature	Not subject to spontaneous combustion - aqueous solution, no data available for the components contained
	#Decomposition temperature	Not determined for the mixture (Capstone FS-31 component> 200 °C, Rokafenol O18 component approx. 200 °C)
#Kinematic viscosity	Information is not available	
#Particle characteristics	Irrelevant	
9.2	Other information	#Not specified

SECTION 10	Stability and reactivity	
10.1	Reactivity	
	#Under normal conditions, there is no danger of reactivity	
10.2	Chemical stability	
	Under normal conditions the product is stable	
10.3	Possibility of hazardous reactions	
	#Possibility of hazardous reactions They are not known for the product. The components present may form hazardous decomposition products when reacted with strong oxidants. However, due to their content in the mixture, hazardous reactions are not expected.	
10.4	Conditions to avoid	
	The conditions under which dangerous reactions could occur are not known. Protect from direct long-term exposure to heat and sunlight, storage above 40 °C - product degradation may occur	

10.5	Incompatible materials #Oxidizing agents
10.6	Hazardous Decomposition Products #For thermal decomposition carbon oxides, hydrogen fluoride, carbonyl difluoride - see 5.2

SECTION 11	Toxicological information
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11.1	#Information on hazard classes as defined in Regulation (EC) No 1272/2008	
Acute toxicity	Based on available data, the criteria for this classification are not match up Toxic effects are not expected under normal conditions use of product #Capstone FS-31 (partially fluorinated alkyl polyether): LD50/oral/rat: 550 mg/kg bw LC50/ inhal./rat/4 hr.: > 5,9 mg/l (dust/fog) LD50/ dermal/rat: > 5.000 mg/kg bw Rokanol O18 - Polyoxyethylene ether of oleyl alcohol LD50/orat/rat: 2700-3100 mg/kg bw (literature) *Repeated exposition: NOAEL/oral/rat: 500 mg/kg bw/day * echa	
Skin corrosion/irritation	Based on available data, the criteria for this classification are not match up	
Serious eye damage/eye irritation	Based on available data, the criteria for this classification are not match up	
Respiratory sensibilisation/ skin sensibilisation	Based on available data, the criteria for this classification are not match up	
Germ cell mutagenicity	Based on available data, the criteria for this classification are not match up The substance has no mutagenic effects	
Carcinogenicity	Based on available data, the criteria for this classification are not match up The substance has no carcinogenic effects	
Reproductive toxicity	Based on available data, the criteria for this classification are not match up. There isn't precondition for reproductive toxicity	
Specific target organ toxicity — single exposure	Based on available data, the criteria for this classification are not match up. There isn't precondition for organ toxicity through single exposure #Capstone FS-31 (partially fluorinated alkyl polyether): Target organs: spleen Has significant effects on animal health at concentrations >10 to 100 mg/kg bw	
Specific target organ toxicity — repeated exposure	Based on available data, the criteria for this classification are not match up. There isn't precondition for organ toxicity through repeated exposure #Capstone FS-31 (partially fluorinated alkyl polyether): Mouse/oral/28hr : NOAEL: 30 mg/kg LOAEL: 125 mg/kg	
Aspiration hazard	Based on available data, the criteria for this classification are not match up Aspiration hazard are not expected under normal conditions use of product	
<u>Likely routes of exposure and symptoms related to the physical, chemical and toxicological characteristics:</u>		
Harmfull effect for health aren't expected under normal using and observing the hygienic regulations		
Toxicity oral. (ingestion / swallowing):		
Harmfull effect for health aren't expected under normal using		
Toxicity inhal. (inhalation):		

Harmfull effect for health aren't expected under normal using	
Toxicity dermal.	
Harmfull effect for health aren't expected under normal using	
Eye Contact:	
Causes serious eye irritation in case of contact with eyes.	
Immediate, delayed and chronic effects of short and long term exposure: Not available. The effects through prolonged or repeated exposure- see above .	
11.2.	#Information on other hazards
	Not available

SECTION	Ecological information
12	
12.1	Toxicity
	Information for mixture isn't available. The product (solution) is not classified as toxic. Toxic effect aren't expected due to mixture composition. Rokanol O18 - Polyoxyethylene ether of oleyl alcohol* LC50/freshwater fish/96hr: 108 mg/L EL50/freshwater invertebrates/48 hr: 51 mg/L NOEC/freshwater invertebrates/21 d: 0.77-1.75mg/L EC50/freshwater algae/72 hr: 100 mg/L EC50/microorganismys/3hr: 1 *source : substance Brief Profile: http://echa.europa.eu/ #Capstone FS-31(partially fluorinated alkyl polyether): LC50/fish(Oncorhynchus mykiss)/96hr: 36.7 mg/l EC50/ freshwater invertebrates (Daphnia magna)/48 hr: 28.8 mg/l ErC50/green algae (Pseudokirchneriella subcapitata)/72 hr: 88.3 mg/l EbC50/green algae (Pseudokirchneriella subcapitata)/72 hr: 50.3 mg/l EyC50/green algae (Pseudokirchneriella subcapitata /72 hr: 50.1mg/l
12.2	Persistence and degradability
	#Information for the mixture is not available. Rocaphenol O18 - surfactant - biodegradability = 80%)
12.3	Bioaccumulative potential
	Information for mixture isn't available. Substances haven't bioaccumulative potential -bioaccumulative potential is not expected
12.4	Mobility in soil
	Information for mixture isn't available. The mixture is soluble in water
12.5	Results of PBT and vPvB assessment
	Information for mixture isn't available. Substances are not identified as a PBT or vPvB
12.6	#Endocrine disrupting properties
	The mixture doesn't contain endocrine disrupting substances
12.7	Other adverse effects
	Not known

SECTION	Disposal considerations
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13		
13.1	Waste treatment methods	
	Code and type of waste	15 01 10 * - packaging containing residues of hazardous substances
	The recommended method of disposal of the substance/ preparation:	Spilled product let soak up with inert absorbent material and pass the person authorized to remove. Must not be disposed of with household or other waste. Do not wash into sewers.
	# Physical / chemical properties that may affect waste management	Labeling according to Annex III of Directive 2008/98 / EC: The product does not show hazardous properties
	The recommended method of disposal of contaminated product packaging:	Emptied containers (after thorough flushing) can be reused, or to defer to container, designated for separate collection (plastics).
	Waste legislation	Directive No. 2008/98/ES

SECTION 14	Transport information
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Land transport (road / rail) ADR/RID , Maritime transport IMDG, Air transport ICAO-TI and IATA-DGR:

For the transport of the product **is not** classified as a dangerous thing (goods).

14.1	#UN number or ID number	Not applicable
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard class(es)	Not applicable
14.4	Packing group	Not applicable
	Labels	Not applicable
14.5	Environmental hazard	Not
	Marine pollutant	Not
14.6	Special precautions for user	See to section 8
14.7	#Maritime transport in bulk according to IMO instruments	Not applicable

SECTION 15	Regulatory information
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture
	Regulation (EC) No 1907/2006, registration, evaluation, authorisation, restriction chemicals (REACH) #Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures Commission Decision 2014/955/EU amending Decision 2000/532/EC on the list of waste pursuant to Directive 2008/98/EC of the European Parliament and of the Council European Agreement concerning the international carriage of dangerous goods (ADR) International Maritime Dangerous Goods Code (IMDG Code) IATA Dangerous Goods Regulations (DGR)
15.2	Chemical safety assessment

The chemical safety assessment for the product was not made.
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SECTION 16	Other information
Abbreviations, symbols#	
Eye Irrit.2	Serious eye irritation (Cat. 2)
STOT RE2	Specific target organ toxicity — repeated exposure (Cat. 2)
Skin Irrit.2	Skin Irritation (Category 2)
CLP : Regulation (EC) č.1272/2008 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals SVHC: Substance of very high concerns PBT: Persistent, bioaccumulative and toxic vPvB :(very) Persistent, (very) Bioaccumulative RID: Regulations Concerning the International Transport of Dangerous Goods by Rail ICAO: International Civil Aviation Organisation ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level PNEC: Predicted No-Effect Concentration LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent EC50: Median Effective Concentration EL50:effect loading doses(effective loading), 50 percent LOAEL: Lowest observed adverse effect level NOAEL: No Observed Adverse Effect Level NOEC: No Observed Effect Concentration N.a.: Not available bw: body weight dw: dry weight #ATE: Acute Toxicity Estimate #M: M- factors- multiplying factor #SCL: Specific Concentration Limit	

Materials used for the processing of safety data sheet	
Information provided by the producer- Material Safety Data Sheets (MSDS) for chemical substances, GESTIS database (www.gdudv.de), European Chemicals Agency http://echa.europa.eu/	
Classification (according to Regulation No 1272/2008 – CLP): calculation method	
#H-phrases :	
H373	May cause damage to organs through prolonged or repeated exposure
H319	Causes serious eye irritation
H315	Causes serious skin irritation
Guidance regarding the training of workers:	

Workers coming into contact with hazardous chemicals or products must have access to data which are presented in this MSDS and be familiar with them clearly.

Person transporting hazardous chemicals and preparations must be familiar with guidelines for emergency response in accordance with regulations on hazardous goods within the meaning of ADR / RID.

The information contained in this MSDS are currently valid data and best practices for use and handling of this substance under normal conditions. Any other use or handling of this substance, which is not consistent with those of MSDS, excludes liability for defects, respectively damage, which would otherwise meet the producer, importer or retailer.

EU Poison Information Centres

Country	Poison Centre	Tel number 24hour every day/ other time
Austria	Poison Information Center/Vergiftungsinformationszentrale	+ 43 1 406 43 43
Belgium	Cente Antipoisons-Antigifcentrum center	+32 70 245 245
Bulgaria	National Toxicology Information center- Hospital for Active Medical Treatment and Emergency Medicine 'N.I.Pirigov', Sofia	+359 2 9154 409
Croatia	Poison Information Center/ Centar za kontrolu otrovanja	+385 1 2348 342
Denmark	Poison Center Hotline	+45 82 12 12 12
Estonia	Poisoning centre Hotline Mürgistusinfo	+372 16662
Finland	Poison Information Centre	+358 9 471977
France	Centre Antipoison et de Toxicovigilance de Paris	+33 1 40 05 48 48
Germany	Poison Information Centre in Berlin	+49 30 192 40
Greece	Poison Information Centre	+30 2107793777
Iceland	Poisons Information Center (Eitrunarmiðstöð)	+354 543 2222
Ireland	National Poisons Information Centre	+353 1 809 2566
Hungary	Poison Information Service (National Institute for chemical safety) Információs szolgálat akut mérgezés eseeén)	+36 80 201 199
Italy	Poisons Center CAV-Centro Antiveneni Roma	+39 06 68593726, +39 06 3054343, +39 06 49978000
Latvia	Toksikoloģijas un sepses klīnikas Saindēšanās un zāļu informācijas centrs	+371 67042473
Lithuania	Poison Information Bureau -PIB	+370 8-5 236 20 52
Luxembourg	Belgian Poison Center	+352 8002 5500
Netherlands	National Poisons Information Center (nationaal vergiftigen Informatie centrum,NVIC)	+031 (0) 30 274 8888
Norway	Poison center (Giftinformasjon)	+47 22 59 13 00
Country	Poison Centre	Tel number 24hour every day/ other time
Poland	National Poisons Information Centre Lodz	+48 42 63 14 724
Portugal	Centro de Informação Antivenenos	+351 808 250 143
Romania	National institute for Public Health (Centrum National de Informare Toxicologica)	+40 21 318 36 06
Slovakia	National Toxicological Information Centre (Národné toxikologické informačné centrum)	+421 2 54 774 166
Spain	Toxicological Information Service (Servicio de Información toxicologica)	+34 91 562 04 20
Sweden	Giftinformationscentralen (Swedish poisons Information Centre)	112/ mon-fri 9.00-17.00 +46 10 456 6700
Switzerland	The Swiss Toxicological Information Centre (STIC)	145
United Kingdom	National Poisons Information Service -NPIS(Birmingham)	England, Wales, Scotland 111
Turkey	Toxicolog Department and Poisons Centre	+ 90 0312 433 7001,+90 0800 314 7900

Revised safety data sheet:

version 5.0 – the change in the composition of the mixture, the change of format MSDS accordance to to Regulation (EU) 2020/878 , general text and informations revision

Changes to the document are indicated by the symbol: #