



Material Safety Data Sheet

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

Date of revision: 07/13/2022

Version No: 8.0
Replaced version No: 7.1

SECTION 1	Identification of the substance/mixture and of the company/undertaking	
1.1	Product identifier	FOMATOL LQN
	Other name or labelling of product:	Not specified
	#UFI	J710-W061-4003-2MX0
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Concentrate of positive developer for processing of black and white photomaterials	
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, 500 02 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)	
	Carc.2;H351 Muta2;H341 Eye Dam.1;H318 Skin Irrit.2;H315 SkinSens.1;H317 Aquatic Acute 1;H400 Aquatic Chronic2;H411	
	<i>Classification and full text of H-statements, see section 16</i>	
	<u>The most important adverse physicochemical, human health and environmental effects:</u> Suspected of causing cancer and genetic defects by long term exposure. Upon contact with the eyes can cause serious damage. Causes skin irritation. May cause an allergic skin reaction. Acute toxicity to aquatic organisms with long lasting effects.	

2.2	Label elements (according to Regulation No 1272/2008/EC– CLP)	
hazard pictogram		
signal word	Danger	

<i>hazard statement(s) (H- phrases)</i>	H351 H341 H315 H318 H317 H410	Suspected of causing cancer Suspected of causing genetic defects Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction Very toxic to aquatic life with long lasting effects
<i>precautionary statement (P- phrases)</i>	P102 P262 P305+P351+P338 P308+P313 P273 P501	Keep out of reach of children Do not get in eyes, on skin, or on clothing. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing IF exposed or concerned: Get medical advice/attention. Avoid release to the environment Dispose of contents/container to collecting place for dangerous waste in accordance with national regulations.
		Contain: hydroquinone, sodium hydroxide

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
Potassium carbonate	CAS number ES number Index number Registration number	584-06-7 209-529-3 Not available 01-2119532646-36-xxxx	< 12	Eye Irrit.2;H319 Skin Irrit.2;H315 STOT SE 3;H335	For substance there are Union workplace exposure limits – see to 8.1
Hydroquinone	CAS number ES number Index number Registration number	123-31-9 204-617-8 604-005-00-4 01-2119524016-51-xxxx	< 5	Carc.2;H351 Muta.2;H341 AcuteTox.4;H302 EyeDam.1;H318 Skin Sens.1;H317 Aquatic Acute1;H400 Aquatic Chronic1; H410	M acute=10 For substance there are Union workplace exposure limits – see to 8.1
Sodium hydroxide	CAS number ES number Index number Registration number	1310-73-2 215-185-5 011-002-00-6 01-2119457892-27	< 1,5	SkinCorr.1A;H314 Met.Corr.1;H290	Eye Irrit. 2; H319: 0,5 % ≤ C < 2 % Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 % For substance there are Union workplace exposure limits – see to 8.1

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

SECTION 4	First aid measures
4.1	<p>Description of first aid measures</p> <p>Lead the disabled person from the contaminated area, bring him/her into a state of peace and facilitate breathing by loosening clothing, watch, and if necessary maintain its vital functions. If you are experiencing symptoms of acute injury (shortness of breath, persistent cough, chest pain, nausea, impaired sensory perception, fainting, etc.), call a physician or transport the injured person to a doctor.</p> <p>After contact with skin: Wash affected area thoroughly with water.</p> <p>Eye Contact: Remove any contact lenses and wash eyes with plenty of water as soon as possible. If necessary, use force to open tightly closed eyelids. Take care not to rinse contaminated water into the non-affected eye. Do not neutralize. Seek medical help.</p> <p>Exposure by inhalation: Remove patient to fresh air, rinse eyes, mouth and nasal cavity with lukewarm water.</p> <p>Ingestion: Calm affected person, rinse his mouth with clean water. Force the affected person to drink a glass of cold water (about 0,4 dl). Do not induce vomiting. If affected person vomit spontaneously, control to prevent inhalation of vomit. Do not administer either activated charcoal or neutralizing agent. Call a physician or transport the affected person to a doctor.</p> <p>#Personal protective equipment for first aid responders: In possible exposition is recommended using of personal protective equipments in accordance with section 8</p>
4.2	<p>Most important symptoms and effects, both acute and delayed</p> <p>#Irritant - may irritate eyes in direct contact. See Section 11 for more detailed information on adverse reactions. Symptoms and effects are in line with expectations for the risks listed in section 2</p>
4.3	<p>Indication of any immediate medical attention and special treatment needed</p> <p>#In the workplace, running water and soap. Symptomatic medical treatment, seek medical attention if symptoms persist</p>

SECTION 5	Firefighting measures
5.1	<p>Extinguishing media</p> <p>The product (liquid) is not flammable. Extinguishing agents adapt burning nearby.</p> <p>Inappropriate extinguishing media: Not known</p>
5.2	<p>Special hazards arising from the substance or mixture</p> <p>#Not known – inflammable water solution. In fire is possible development of dangerous products decomposition- sulphur oxides</p>
5.3	<p>Advice for firefighters: # Due to possible decomposition products see 5.2 and 10.6 it is necessary to use special breathing technique, chemical suit</p>

SECTION 6	Accidental release measures
6.1	<p>Personal precautions, protective equipment and emergency procedures</p> <p>Take persons not participating in removing the consequences of the accident out of reach. Ventilate enclosed spaces. Use the prescribed personal protective equipment when removing the consequences of the accident. Use breathing apparatus and complete protective suit when working on the disposal of the accident. Smoking and manipulation with open fire is prohibited.</p>
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 strongly dilute with water.
6.4	Reference to other sections #See sections 8 and 13

SECTION 7	Handling and storage
7.1	Precautions for safe handling Follow the safety rules while working. Wear recommended personal protective equipment. Avoid contact with eyes. Eating, drinking, smoking, working with burning materials and open fire is prohibited while working. Equipment must contain fire extinguishers in enclosed areas, ventilation must be ensured naturally or mechanically in enclosed spaces. 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 must be prepared according to the instructions.
7.3	Specific end use(s) See in 1.2. , Other uses – not available

SECTION 8	Exposure controls/personal protection																																																																																																													
8.1	Control parameters International limit values for chemical agents (Occupational exposure limits, OELs):																																																																																																													
	<table border="0"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Limit value - Eight hours</th> <th colspan="2">Limit value - Short term</th> </tr> <tr> <th>ppm</th> <th>mg/m³</th> <th>ppm</th> <th>mg/m³</th> </tr> </thead> <tbody> <tr> <td>Potassium carbonate</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Latvia</td> <td>2</td> <td>0,5</td> <td></td> <td></td> </tr> <tr> <td>Hydroquinone</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>ppm</td> <td>mg/m³</td> <td>ppm</td> <td>mg/m³</td> </tr> <tr> <td>Australia</td> <td></td> <td>2</td> <td></td> <td></td> </tr> <tr> <td>Austria</td> <td></td> <td>2 inhalable aerosol</td> <td></td> <td>4 inhalable aerosol</td> </tr> <tr> <td>Belgium</td> <td></td> <td>2</td> <td></td> <td></td> </tr> <tr> <td>Canada - Ontario</td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>Canada - Québec</td> <td></td> <td>2</td> <td></td> <td></td> </tr> <tr> <td>Denmark</td> <td></td> <td>2</td> <td></td> <td>2</td> </tr> <tr> <td>Finland</td> <td></td> <td>0,5</td> <td></td> <td>2 (1)</td> </tr> <tr> <td>France</td> <td></td> <td>2</td> <td></td> <td></td> </tr> <tr> <td>Ireland</td> <td></td> <td>0,5</td> <td></td> <td></td> </tr> <tr> <td>People's Republic of China</td> <td></td> <td>1</td> <td></td> <td>2 (1)</td> </tr> <tr> <td>Poland</td> <td></td> <td>1</td> <td></td> <td>2</td> </tr> <tr> <td>Romania</td> <td></td> <td>1</td> <td></td> <td>2 (1)</td> </tr> <tr> <td>Singapore</td> <td></td> <td>2</td> <td></td> <td></td> </tr> <tr> <td>South Korea</td> <td></td> <td>2</td> <td></td> <td></td> </tr> <tr> <td>Spain</td> <td></td> <td>2</td> <td></td> <td></td> </tr> <tr> <td>Sweden</td> <td></td> <td>0,5</td> <td></td> <td>1,5 (1)</td> </tr> </tbody> </table>		Limit value - Eight hours		Limit value - Short term		ppm	mg/m ³	ppm	mg/m ³	Potassium carbonate					Latvia	2	0,5			Hydroquinone						ppm	mg/m ³	ppm	mg/m ³	Australia		2			Austria		2 inhalable aerosol		4 inhalable aerosol	Belgium		2			Canada - Ontario		1			Canada - Québec		2			Denmark		2		2	Finland		0,5		2 (1)	France		2			Ireland		0,5			People's Republic of China		1		2 (1)	Poland		1		2	Romania		1		2 (1)	Singapore		2			South Korea		2			Spain		2			Sweden		0,5		1,5 (1)
	Limit value - Eight hours		Limit value - Short term																																																																																																											
	ppm	mg/m ³	ppm	mg/m ³																																																																																																										
Potassium carbonate																																																																																																														
Latvia	2	0,5																																																																																																												
Hydroquinone																																																																																																														
	ppm	mg/m ³	ppm	mg/m ³																																																																																																										
Australia		2																																																																																																												
Austria		2 inhalable aerosol		4 inhalable aerosol																																																																																																										
Belgium		2																																																																																																												
Canada - Ontario		1																																																																																																												
Canada - Québec		2																																																																																																												
Denmark		2		2																																																																																																										
Finland		0,5		2 (1)																																																																																																										
France		2																																																																																																												
Ireland		0,5																																																																																																												
People's Republic of China		1		2 (1)																																																																																																										
Poland		1		2																																																																																																										
Romania		1		2 (1)																																																																																																										
Singapore		2																																																																																																												
South Korea		2																																																																																																												
Spain		2																																																																																																												
Sweden		0,5		1,5 (1)																																																																																																										

Switzerland		2 inhalable aerosol		2 inhalable aerosol
USA - NIOSH				2 (1)
USA - OSHA		2		
United Kingdom		0,5		
	Remarks			
Finland	(1) 15 minutes average value			
People's Republic of China	(1) 15 minutes average value			
Romania	(1) 15 minutes average value			
Spain	sen			
Sweden	(1) 15 minutes average value			
USA - NIOSH	(1) Ceiling limit value (15 min)			
Sodium hydroxide				
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Australia				2 (1)
Austria		2 inhalable aerosol		4 inhalable aerosol
Belgium		2		
Canada - Ontario				2 (1)
Canada - Québec				2 (1)
Denmark		2		2
Finland				2 (1)
France		2		
Hungary		2		2
Ireland				2 (1)
Japan - JSOH		2 (1)		
Latvia		0,5		
New Zealand				2 (1)
People's Republic of China				2 (1)
Poland		0,5		1
Romania		1		3 (1)
Singapore				2
South Korea				2 (1)
Spain		2		
Sweden		1 (1)		2 (1)(2)
Switzerland		2 inhalable aerosol		2 inhalable aerosol
USA - NIOSH				2 (1)
USA - OSHA		2		
United Kingdom				2
	Remarks			
Australia	(1) Ceiling limit value			
Canada - Ontario	(1) Ceiling limit value			
Canada - Québec	(1) Ceiling limit value			
Finland	(1) Ceiling limit value			
Ireland	(1) 15 minutes reference period			
Japan - JSOH	(1) Occupational exposure limit ceiling: Reference value to the maximal exposure concentration of the substance during a working day			
New Zealand	(1) Ceiling limit value			
People's Republic of China	(1) Ceiling limit value			
Romania	(1) 15 minutes average value			
South Korea	(1) Ceiling limit value			
Sweden	(1) Inhalable fraction (2) 15 minutes average value			
USA - NIOSH	(1) Ceiling limit value (15 min)			
Laying down limit values of biological exposure tests: not available				

Hydroquinone				
DNELs:				
	Workers		Consumers	
Route of exposure	Chronic effects local	Chronic effects systemic	Chronic effects local	Chronic effects systemic
Inhalatio	1 mg/m ³	7 mg/m ³	0,5mg/m ³	1,74 mg/m ³
Dermal	Not available	128 mg/kg bw/day	Not available	64 mg/kg bw/day
PNECs				
Environmental protection target		PNEC		
Fresh water		0.114µg/L		
Intermittent release		1.34 µg/L		
Freshwater sediments		0.98 µg/kg sediment dw		
Marine water		0.0114 mg/L		
Marine sediments		0.097 µg /kg sediment dw		
Microorganisms in sewage treatment		0.71mg/L*		
Soil (agricultural)		0.64 µg/kg sediment dw*		
*source : substance Brief Profile: http://echa.europa.eu/				
Potassium carbonate				
DNELs:				
	Workers		Consumers	
Route of exposure	Chronic effects local		Chronic effects local	
Inhalation	10 mg/m ³		10 mg/m ³	
Dermal	16 mg/cm ²		8 mg/cm ²	
PNECs - Not available				
Sodium hydroxide				
DNELs:				
	Workers		Consumers	
Route of exposure	Chronic effects local		Chronic effects local	
Inhalation	1 mg/m ³		1 mg/m ³	
PNECs - Not available				
8.2	Exposure controls			
	Individual protection measures, incl. protective equipment			
	Technical measures: Working place must be equipped with a local suction and a source of running water if the eyes irrigation and washing of hands or affected parts of skin is needed. Tightly closed containers and equipment, natural and mechanical ventilation. Avoid contact with eyes and mouth, avoid inhalation and skin staining. Eating, drinking and smoking is prohibited while working. Avoid contact with food substances and drinks. After work wash hands with soap and water. Take off polluted clothes if needed.			
	Respiratory protection: During normal handling is not required.			
	#Hand protection: : If contact with hand is possible, there is recommended using of work gloves (EN 374 and EN 420), for examples KCL740/741 Dermatril- nitrile rubber, layer thickness 0,11 mm, breakthrough-time >480 min, KCL lapren 706-natural rubber, layer thickness 0,6 mm, breakthrough-time >480 min			
	#Eye protection: Safety glasses/ safety shield (EN166)			
	#Skin protection: long- sleeved protective work clothing			
	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 (20 °C)	10.5-11.0
	Melting point/freezing point	< 0 °C
	Initial boiling point and boiling range	> 100 °C
	#Flash point	Non-flammable - aqueous solution; hydroquinone 165 °C
	Flammability	Inflammable
	Upper/lower flammability or explosive limits	Irrelevant- non-flammable liquid
	Vapour pressure	<20 mbar
	#Relative vapour density	Information is not available.
	#Absolute density	1.27 g/cm ³
	Solubility – water	Water solution- full blended
	Partition coefficient: n-octanol/water	Water solution- no self -ignition
	Auto-ignition temperature	Irrelevant
	Decomposition temperature	Not determined for the mixture
	Kinematic viscosity:	Information is not available.
	Explosive properties	No explosive properties
	#Particle characteristics:	Irrelevant
9.2	Other information	#Not specified

SECTION 10	Stability and reactivity
10.1	Reactivity Under normal conditions the product is stable
10.2	Chemical stability Under normal conditions the product is stable
10.3	Possibility of hazardous reactions Not known
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 - the product may be degraded.
10.5	Incompatible materials #Acids
10.6	Hazardous Decomposition Products #They do not form under normal conditions. In case of fire, sulfur dioxide is formed - see section 5. Possible evolution of sulfur dioxide at higher temperatures and reactions with acids

SECTION 11	Toxicological information
11.1	#Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity	#ATE _{mix} (oral)=7500 mg/kg (calculation)- Based on available data, the criteria for this classification are not match up. No direct toxic effects are expected

	<p>under normal use</p> <p>Hydroquinone LD50/ oral/ rat : > 375 mg/kg LD50/ dermal/ rabbit : > 2000 mg/kg</p> <p>Sodium hydroxide LD50/ oral/ rat : > 300 mg/kg LD50/ Interperitoneal/mouse: 40 mg/kg LDLo/ oral/ rabbit: 500 mg/kg LD50/ dermal/ rabbit: 1350 mg/kg</p> <p>Potassium hydroxide LD50/ oral/ rat : 273 mg/kg</p>
Skin corrosion/irritation	Causes serious skin irritation
Serious eye damage/eye irritation	Causes serious eye damage
Respiratory or skin sensitisation	May cause an allergic skin reaction
Germ cell mutagenicity	Suspected of causing genetic defects
Carcinogenicity	Suspected of causing cancer
Reproductive toxicity	#Based on available data, the criteria for this classification are not match up. The components have no potential for reproductive toxicity
Specific target organ toxicity — single exposure	#Based on available data, the criteria for this classification are not match up. There is no presumption of toxic effects on specific target organs
Specific target organ toxicity — repeated exposure	#Based on available data, the criteria for this classification are not match up. There is no presumption of toxic effects on specific target organs
Aspiration hazard	#Based on available data, the criteria for this classification are not match up. In normal use, inhalation hazard is not expected.
<p><u>Likely routes of exposure and symptoms related to the physical, chemical and toxicological characteristics:</u></p> <p>#No adverse health effects are to be expected under normal use in accordance with the instructions and in accordance with generally applicable hygiene principles</p> <p>#Oral toxicity (ingestion / swallowing): If swallowed, may cause irritation of the upper respiratory tract and gastrointestinal disorders - abdominal pain, vomiting, diarrhea. It can also cause burns to the esophagus.</p> <p>#Toxicity inhal. (inhalation): Not expected under normal use. Possibility of mucosal irritation, cough, dyspnoea with strong heating</p> <p>Toxicity dermal. May cause irritation (redness) of skin</p> <p>Eye Contact: #Causes serious eye damage on direct contact</p> <p>Immediate, delayed and chronic effects of short and long term exposure: #Data are not available for the mixture - the mixture is classified as suspected of causing cancer or genetic damage based on a calculation</p>	
11.2	<p>Information on other hazards</p> <p>Information not available</p>

SECTION	Ecological information
12	
12.1	<p>Toxicity</p> <p>#Not determined for the mixture. Based on the calculation, it is classified as highly toxic to aquatic organisms, with long-term effects</p> <p>Hydroquinone LC50(fish)/96hr: 0.638 mg/L EC50(daphnia)/48hr: 0.134 mg/L</p>


	<p>EC50(water algae)/72hr: 0.33 mg/L NOEC(daphnia) /21d:0.0057mg/L NOEC(algae)/72 hr.: 0.019 mg/L</p> <p>Sodium hydroxide Acute toxicity for fish:C50(Carassius auratus)/24 hr: 160 mg/L LC50(Gambusia affinis)/96 hr: 125 mg/L LC100(Cyprinus carpio)/24 hr: 180 mg/L EC50(Daphnia sp)/48 hr: 40.4 mg/L Chronic toxicity Toxicity for fish: > 25 mg/L Toxicity for invertebrates: Not available</p> <p>Potassium carbonate Toxicity for fish LC50 (Oncorhynchus mykiss)/96 hr: 68 mg/L; NOEC (Oncorhynchus mykiss)/96 hr: 33 mg/L Toxicity for invertebrates EC50 (Daphnia Pulex)/48 hr: 200 mg/l ; NOEC (Daphnia Pulex)/48 hr: 120 mg Toxicity for algae- not available</p>
12.2	<p>Persistence and degradability # information available for the mixture (hydroquinone is considered readily biodegradable).</p>
12.3	<p>Bioaccumulative potential #Information for the mixture is not available. Ingredients have no bioaccumulation potential - bioaccumulation potential is not expected.</p>
12.4	<p>Mobility in soil #Information for the mixture is not available. The mixture is soluble in water. (hydroquinone -log Koc: 0.97 - 1.7)</p>
12.5	<p>Results of PBT and vPvB assessment #Information for mixture isn't available. Substances are not identified as a PBT or vPvB</p>
12.6.	<p>#Endocrine disrupting properties The mixture doesn't contain endocrine disrupting substances</p>
12.7	<p>Other adverse effects #Not known.</p>

SECTION	Disposal considerations	
13		
13.1	Waste treatment methods	
	Code and type of waste	09 01 01* – aqueous developer solutions 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: HP4-Irritant – skin irritation and eye damage HP7-Carcinogenic HP11-Mutagenic HP13-Sensitizing HP14 Ecotoxic

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). Possible slight residuals of hydroquinone in the empty, rinsed container, transform into harmless chinone form. (oxidation process)
Waste legislation	Directive No. 2008/98/ES

SECTION 14	Transport information
-------------------	------------------------------

Land transport ADR/RID (cross- border), Maritime transport IMDG, Air transport ICAO-TI and IATA-DGR:

14.1	#UN number or ID number	3082
14.2	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,N.O.S. (HYDROQUINONE)
14.3	Transport hazard class(es)	9
14.4	Packing group	III
	Labels	9 
14.5	Environmental hazard	It is a dangerous goods for the environment during transport - see. Section 12
	Marine pollutant	Yes
14.6	Special precautions for user	See to section 8- Avoid release to the environment
14.7	#Maritime transport in bulk according to IMO instruments	Not expected
Special provisions, remarks:		<p>ADR: The product is carried in single or combination packaging containing a net quantity per single or inner packaging of 5 litres or less and is not subject to any other provisions of ADR provided packaging meet the general provisions of 4.1.1.1., 4.1.1.2 and 4.1.1.4 to 4.1.1.8 (according to chapter 3.3 ADR, special provisions 375)</p> <p>IMDG: The product is packaged in single or combination packaging containing a net quantity per single or inner packaging of 5 litres or less and is not subject to any other provisions of IMDG Code relevant to marine pollutants provided the packaging meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. (according to Chapter 2.10, paragraphs 2.10.2.7 and 2.10.2.3)</p> <p>ICAO/IATA: The product is transported in single or combination packaging containing a net quantity per single or inner packaging of 5 litres or less and is not subject to any other provisions of the IATA Dangerous Goods Regulations provided the packaging used defined standards. (according to part 4.4 , Special provisions A197)</p>

SECTION 15	Regulatory information
15.1	<p>Safety, health and environmental regulations/legislation specific for the substance or mixture</p> <p>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 Government Regulation No. 361/2007 Coll. On the health conditions of workers at work</p>

	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.

SECTION 16	Other information
Abbreviations, symbols	
Carc.2	Carcinogenicity (Category 2)
Muta.2	Mutagenicity (Category 2)
Eye Dam.1	Serious eye damage (Category 1)
Skin Corr. 1A	Skin corrosion
Skin Irrit.2	Skin irritation (Category 2)
Skin Sens.1	Skin sensibilisation (Category 1)
Acute Tox.4	Acute toxicity (Category 4)
Eye Irrit.2	Serious eye irritation (Cat. 2)
STOT SE 3	Specific target organ toxicity — single exposure (cat.3)
STOT RE 2	Specific target organ toxicity – Repeated exposure (Category 2)
Mett.Corr.1	Substance or mixture corrosive to metals
Aquatic Acute 1	Hazardous to the aquatic environment, acute (Category 1)
Aquatic Chronic1	Hazardous to the aquatic environment, chronic (Category 1)
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic (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

LOAEL: Lowest observed adverse effect level

NOAEL: No Observed Adverse Effect Level

NOEC: No Observed Effect Concentration

M: multiplier factor

N.a.: not available

Bw. Body weight ATE: Acute Toxicity Estimate

#ATE: Acute Toxicity Estimate

#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 :

H290	May be corrosive to metals
H351	Suspected of causing cancer
H341	Suspected of causing genetic defects
H302	Harmful if swallowed
H318	Causes serious eye damage
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H315	Causes skin irritation.
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure

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

Country	Poison Centre	Tel number 24hour every day/ other time
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 (Giftinformasjonen)	+47 22 59 13 00
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 8.0 – change format safe sheet according to Regulation (EU) No. 2020/878 and a complete revision of the text and data.

Changes to the document are indicated by the symbol:#

