



Material Safety Data Sheet

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

Version No: 10.0

Date of revision: 09/05/2022

Replaced version No: 9.0

SECTION 1	Identification of the substance/mixture and of the company/undertaking	
1.1	Product identifier	FOMADON LQN
	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 of negative developer for processing of black and white films	
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) Aquatic Chronic3;H412	
	<i>Classification and full text of H-statements, see section 16</i>	
	<u>The most important adverse physicochemical, human health and environmental effects:</u> #Harmful to aquatic life with long lasting effects. May produce an allergic reaction	

2.2	Label elements (according to Regulation No 1272/2008/EC– CLP)	
<i>hazard pictogram</i>	Not applicable	
<i>signal word</i>	Not applicable	

<i>hazard statement(s) (H-, EUH - phrases)</i>	H 412 #EUH 208 EUH 210	Harmful to aquatic life with long lasting effects. Contains Hydroquinone. May produce an allergic reaction. Safety data sheet available on request.
<i>precautionary statement (P- phrases)</i>	P273 P501	Avoid release to the environment Dispose of contents/container to collecting place for dangerous waste in accordance with national regulations.

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
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SECTION 3		Composition/information on ingredients			
3.2		#Mixtures			
Folder name	Identification number		Content % mass in the solution	Classification	SCL, M, ATE, note
Sodium carbonate	CAS number ES number Index number Registration number	497-19-8 207-838-8 011-005-00-2 Not available	<3	Eye Irrit 2;H319	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	< 0,5	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

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: 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

	<p>#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.</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>#Causes eye irritation in case of immediate contact, may produce an allergic reaction , other information see to section 11</p>
4.3	<p>Indication of any immediate medical attention and special treatment needed</p> <p>#Specific instruction is not known, symptomatic medical treatment .</p>

SECTION 5	Firefighting measures
5.1	<p>Extinguishing media</p> <p>The product (liquid) is not flammable. Extinguishing agents adapt burning nearby. 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:</p> <p>#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>#Zoom out persons not participating in the elimination of consequences of the accident out of reach.. When removing the consequences of the accident using the prescribed personal protective equipment.</p>
6.2	<p>Environmental precautions</p> <p>Do not allow substance to enter soil, sewage system, surface and groundwater.</p>
6.3	<p>Methods and material for containment and cleaning up</p> <p>Let soak it to inert absorption products. Rinse the affected area thoroughly with water. Small leak at least strongly dilute with water.</p>
6.4	<p>Reference to other sections</p> <p>#See sections 8 and 13</p>

SECTION 7	Handling and storage
7.1	<p>Precautions for safe handling</p> <p>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</p>

	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 available

SECTION 8	Exposure controls/personal protection
8.1	#Control parameters

International limit values for chemical agents (Occupational exposure limits, OELs):

Sodium carbonate	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
People's Republic of China		3		6 (1)
Romania		1		3 (1)
	Remarks			
People's Republic of China	(1) 15 minutes average value			
Romania	(1) 15 minutes average value			
Hydroquinone	Limit value - Eight hours		Limit value - Short term	
	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)			

Laying down limit values of biological exposure tests: not available

Sodium carbonate				
DNEL				
	Workers		Consumers	
Route of exposure	Chronic effects local		Acute effect local	
Inhalation	10 mg/m ³		10 mg/m ³	
PNECs- 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/				

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: : 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)- recommended
	#Skin protection: long- sleeved protective work clothing- recommended
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)	about 9.8
	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	1.15g/cm ³
	Solubility – water	Water solution- full blended
	Partition coefficient: n-octanol/water	Irrelevant
	Auto-ignition temperature	Water solution- no self -ignition
	#Decomposition temperature	Not determined for the mixture; sodium carbonate >400°C
	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	<p>ATE_{mix} (oral)= 75000 mg/kg (calculation) Based on available data, the criteria for this classification are not match up. No direct toxic effects are expected under normal use</p> <p>Hydroquinone LD50/ oral/ rat : > 375 mg/kg LD50/ dermal/ rabbit : > 2000 mg/kg</p> <p>Sodium carbonate LD50 /oral/rat: 2800 mg/kg bw LD50 /dermal/rabbit: >2000 mg/kg bw LC50 /inhal/rat/ 2 hr: 2.3mg/L air</p>

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 ingredients are not mutagenic
Carcinogenicity	Based on available data, the criteria for this classification are not match up. The ingredients do not have a carcinogenic effect
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.
<u>Likely routes of exposure and symptoms related to the physical, chemical and toxicological characteristics:</u>	
No adverse health effects are to be expected under normal use in accordance with the instructions and in accordance with generally applicable hygiene principles.	
Toxicity oral. (ingestion / swallowing): Not expected under normal use. If swallowed, mild nausea may occur	
Inhalation toxicity (inhalation): #Not expected under normal use. With strong heating the possibility of irritation of the mucous membranes, cough, shortness of breath.	
Toxicity dermal: Not expected under normal use	
Eye Contact: #May cause serious eye irritation on direct contact	
Immediate, delayed and chronic effects of short and long term exposure: Information not available	
11.2	Information on other hazards
	Information not available

SECTION	Ecological information
12	
12.1	#Toxicity
	Product is harmful to aquatic life with long lasting effects (calculation) Hydroquinone LC50(fish)/96hr: 0.638 mg/L EC50(daphnia)/48hr: 0.134 mg/L EC50(water algae)/72hr: 0.33 mg/L NOEC(daphnia) /21d:0.0057mg/L NOEC(algae)/72 hr.: 0.019 mg/L Sodium carbonate LC50 (Fish-Lepomis macrochirus)/96 hr: 300 mg/L EC50 (freshwater invertebrates)/48 hr: 200-227 mg/L

12.2	Persistence and degradability
	Information for mixture isn't available. Hydroquinone is considered to be biologically degradable (test OECD 301 C)
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 13	Disposal considerations	
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: 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 quinone form. (oxidation process)
	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 hazards	see SECTION 12
	Marine pollutant	It contains hydroquinone, which is a substance that threatens the sea; the mixture is not a marine hazard - see section 12
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	<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 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 Government Regulation No. 361/2007 Coll. On the health conditions of workers at work European Agreement concerning the international carriage of dangerous goods (ADR) International Maritime Dangerous Goods Code (IMDG Code) IATA Dangerous Goods Regulations (DGR)</p>
15.2	<p>Chemical safety assessment</p> <p>The chemical safety assessment for the product was´nt made.</p>

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 Sens.1	Skin sensitisation (Category 1)
Acute Tox.4	Hazardous to the aquatic environment, acute (Category 4)
Eye Irrit.2	Serious eye irritation (Cat. 2)
Aquatic Acute 1	Hazardous to the aquatic environment, acute (Category 1)
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic (Category 3)
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
 NOEC: No Observed Effect Concentration
 M: multiplier factor
 bw: body weight
 #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 :

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
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects
H319	Causes serious eye irritation
H315	Causes 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) Információszolgáltatás 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 (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 10: Dimeson S component removed - change of classification, change of mixture designation (see section 2.2) change of safe format. 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:#