



Material Safety Data Sheet

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

Date of revision: 07/15/2022 Version No: 4.0
Replaced version No: 3.1

SECTION 1	Identification of the substance/mixture and of the company/undertaking	
1.1	Product identifier	FOMA GD-L
	#Other name or labelling of product:	FOMA GD FOMADENT MD-2.5
	#UFI	XF00-A0YF-C00N-4JPE
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Concentrate developer for machine processing of graphic 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 Muta.2;H341 Eye Dam1;H318 SkinIrrit.2;H315 SkinSens.1;H317 Aquatic Acute 1;H400 Aquatic Chronic 2;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. Upon contact with the eyes can cause serious damage. May cause an allergic skin reaction. Causes skin irritation. Very toxic to aquatic life with long lasting effects.	

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

<i>signal word</i>		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 P280 P301+P310 P305+P351+P338 P273 P501	Keep out of reach of children Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing Avoid release to the environment Dispose of contents/container to collecting place for dangerous waste in accordance with national regulations.
		Contain: hydroquinone, 4-methyl-1-phenyl-3 pyrazolidone, potassium 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	< 5	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
Diethanolamine	CAS number ES number Index number Registration number	111-42-2 203-868-0 603-071-00-101-2119488930-28-0002	< 2	AcuteTox.4;H302 Eye Dam.1;H318 Skin Irrit.2;H315 STOT RE 2;H373 Aquatic Chronic3;H412	For substance there are Union workplace exposure limits – see to 8.1

Potassium hydroxide	CAS number ES number Index number Registration number	1310-58-3 215-181-3 019-002-00-8 01-2119487136-33	< 2	SkinCorr.1A;H314 AcuteTox.4;H302 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
4-methyl-1-phenyl-3-pyrazolidone (Phenidon B)	CAS number ES number Index number Registration number	2654-57-1 220-180-6 Not available Not available	< 0,2	AcuteTox.4;H302 Skin Sens.1;H317 AquaticChronic2; H411	Not available

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

SECTION 6	Accidental release measures
6.1	Personal precautions, protective equipment and emergency procedures
	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.
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):

	Potassium carbonate Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Latvia	2	0,5		
	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)			
	Potassium hydroxide Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Australia				2 (1)
Austria		2 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)		
New Zealand				2 (1)
People's Republic of China				2 (1)
Poland		0,5		1
Singapore				2
South Korea				2 (1)
Spain		2		
Sweden		1		2 (1)
Switzerland		2 inhalable aerosol		
USA - NIOSH				2 (1)
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	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			
South Korea	(1) Ceiling limit value			
Sweden	(1) 15 minutes average value			
USA - NIOSH	(1) Ceiling limit value			
Diethanoalamine (2,2'-Iminodiethanol)				
Limit value - Eight hours				
Limit value - Short term				
	ppm	mg/m ³	ppm	mg/m ³
Australia	3	13		
Austria	0,46	2	0,92	4
Belgium	0,46	2		
Canada - Ontario		1 (1)		
Canada - Québec	3	13		
Denmark	0,46	2	0,92	4
Finland	0,46	2		
France	3	15		
Germany (AGS)	0,11 (1)(2)	0,5 (1)(2)	0,11 (1)(2)(3)	0,5 (1)(2)(3)
Ireland		1 (1)		
New Zealand	3	13		
Poland		9		
Singapore	0,46	2		
South Korea	0,46	2		
Spain	0,46	2		
Sweden	3	5	6 (1)	30 (1)
Switzerland		1 inhalable aerosol		1 inhalable aerosol
USA - NIOSH	3	15		
United Kingdom	[3]	[13]		
Remarks				
Canada - Ontario	(1) Inhalable aerosol and vapour			
Germany (AGS)	(1) Inhalable fraction and vapour (2) The reaction with nitrosating agents may lead to the formation of the corresponding carcinogenic N-nitrosoamines. (3) 15 minutes average value			
Germany (DFG)	(1) Inhalable fraction and vapour (2) 15 minutes reference period			
Ireland	(1) Inhalable fraction and vapour			
Spain	skin			
Sweden	(1) 15 minutes average value			
United Kingdom	The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list.			
4-Methyl-1-phenyl-3-pyrazolidone (Phenidon B) -International limit values for chemical agents (Occupational exposure limits, OELs) – not available				
Laying down limit values of biological exposure tests: not available				
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				

Potassium 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

Hydroquinone

DNELs:

	Workers		Consumers	
Route of exposure	Chronic effects local	Chronic effects systemic	Chronic effects local	Chronic effects systemic
Inhalation	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/>**4-methyl-1-phenyl-3-pyrazolidone (Phenidon B)**

DNELs,, PNECs- Not available

Diethanolamine

DNELs

	Workers		Consumers	
Route of exposure	Chronic effects local	Chronic effects systemic	Chronic effects local	Chronic effects systemic
Inhalation	1 mg/m ³	Not available	0.25 mg/m ³	Not available
Dermal	Not available	0.13 mg/kg bw/day	Not available	0.07 mg/kg bw/day
Oral	Not available	Not available	Not available	0.06 mg/kg bw/day

PNECs

Environmental protection target	PNEC
Fresh water	0.0022 mg/L
Intermittent release	0.022 mg/L
Freshwater sediments	0.019 mg/kg sediment dw
Marine water	0.000221 mg/L
Marine sediments	0.0019 mg /kg sediment dw
Microorganisms in sewage treatment	100 mg/L
Soil (agricultural)	0.00108 mg/kg sediment dw

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	Yellow liquid
	Odour	Moderate, nonspecific
	pH (20 °C)	10.6-10.8
	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	1.22 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
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11.1	#Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity	<p>ATE_{mix} (oral)=4499 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>Potassium carbonate LD50 /oral/rat: >2000 mg/kg bw LD50 /dermal/rabbit: >2000 mg/kg bw LC50 /inhal/ rat/4.5 hr: >4.96 mg/L air (Dust)</p> <p>Potassium hydroxide LD50/ oral/ rat : 273 mg/kg</p> <p>4-methyl-1 phenyl-3 pyrazolidone (Phenidon B) LD50/oral/ rat: 627 mg/kg bw *LD50/dermal/ rat: 2000 mg/kg bw *source : substance Brief Profile: http://echa.europa.eu/</p> <p>Diethanolamine LD50 /oral/rat: 1600 mg/kg bw LD50 /dermal/rabbit: > 8200 mg/kg bw LC0 /inhal/rat/4 hr: > 3.35 mg/L air</p>
Skin corrosion/irritation	<p>Causes serious skin irritation</p> <p>Potassium hydroxide: Dermal irritation/ rabbit: 50 mg/day – strong irritant</p>
Serious eye damage/eye irritation	<p>Causes serious eye damage</p> <p>Potassium hydroxide: Eye irritation/ rabbit: 1mg/day (rinsed with water)- moderate irritant</p>
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.
<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	
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.	
Toxicity inhal. (inhalation): Not expected under normal use. Possibility of mucosal irritation, cough, dyspnoea with strong heating	
Toxicity dermal.	

May cause irritation (redness) of skin	
Eye Contact: Causes serious eye irritation on direct contact	
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	
11.2	Information on other hazards
	Information not available

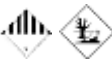
SECTION	Ecological information
12	
12.1	<p>Toxicity</p> <p>Not determined for the mixture. Based on the calculation, it is classified as highly toxic to aquatic organisms, with long-term effects</p> <p>Hydroquinone LC50(fish)/96hr: 0.638 mg/L EC50(daphnia)/48hr: 0.134 mg/L EC50(water algae)/72hr: 0.33 mg/L NOEC(daphnia) /21d:0.0057mg/L NOEC(algae)/72 hr.: 0.019 mg/L</p> <p>Potassium hydroxide LD50, fish/96 hr: 10-10 mg/L Mortality concentration for fish:: 28.6 mg/24 hr EC50(invertebrates -Daphnia sp)/24 hr: 270 mg/L Harmful effect –pH The danger for water: class1</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> <p>4-methyl-1 -phenyl-3 pyrazolidone (Phenidon B) *LC50/fish/96 hr: 625 µg/L *EC50/freshwater invertebrates(Daphnia magna)/72hr: 2.5 mg/L *EC50/ freshwater algae/72 hr: 10.58 mg/L *EC50/ microorganisms: 10 g/L *source : substance Brief Profile: http://echa.europa.eu/</p> <p>Diethanolamine *LC50/fish/96 hr: 460 mg/L *EC50/freshwater invertebrates/48 hr: 30.1 mg/L *EC50/marine invertebrates/48 hr: 378 mg/L *EC10/LC10/NOEC/ freshwater invertebrates /21 d: 1.05 mg/L *EC50/ freshwater algae/72 hr: 9.5 mg/L *EC50/marine algae/72 hr: 86.96 mg/L *EC10/LC10/NOEC/freshwater algae/72 hr: 1.1 mg/L *source : substance Brief Profile: http://echa.europa.eu/</p>
12.2	<p>Persistence and degradability</p> <p>No information available for the mixture (hydroquinone is considered readily biodegradable).</p>
12.3	<p>Bioaccumulative potential</p> <p>Information for the mixture is not available. Ingredients have no bioaccumulation potential - bioaccumulation potential is not expected.</p>

12.4	Mobility in soil
	Information for the mixture is not available. The mixture is soluble in water. (hydroquinone -log Koc: 0.97 - 1.7)
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	
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 absorb in inert absorbent material and pass it on to a person who is in charge of its removal. The product cannot be removed together with local or other waste. Do not wash away 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 put away into a 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	Transport information	
14		

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) # (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 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 not 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 Corr. 1A	Skin corrosion (category 1A)
Skin Irrit.2	Skin irritation (Category 2)
Met.Corr.1	Corrosive to metals

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 1	Hazardous to the aquatic environment, chronic (Category 1)
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic (Category 2)
STOT SE 3	Specific target organ toxicity — single exposure (cat.3)
STOT RE 2	Specific target organ toxicity – Repeated exposure (Category 2)
Skin Irrit.2	Skin irritation (category 2)
<p>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 NPK-P, PEL: Hygienic limits of chemical substances for working environment (the Czech Republic) M: multiplier factor bw: body weight #ATE: Acute Toxicity Estimate #SCL: Specific Concentration Limit</p>	

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.gdud.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
H315	Causes skin irritation.
H373	May cause damage to organs through prolonged or repeated exposure
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
H412	Harmful to aquatic life with long lasting effects
H319	Causes serious eye irritation
H314	Causes severe skin burns and eye damage
H335	May cause respiratory 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 mixture which is not consistent with those of MSDS excludes the responsibility for defects, more precisely for damage for which the producer, importer or retailer would be otherwise responsible.

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	Centre 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 akút mérgezés eséén)	+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 (Giftoinformasjonen)	+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	Giftoinformationscentralen (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 4.0: Processed according to Regulation (EU) No. 2020/878. Changes to the document are indicated by the symbol: #