

Material Safety Data Sheet

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

Date of revision: 08/05/2022 Version No: 7.0

Replaced version No: 6.3

SECTION 1	Identification of the substance/mixture and of the company/undertaking				
1.1	Product identifier	FOMATOL P Velký díl/Big part			
	#Other name or labelling of product:	FOMATOL PW Velký díl/Big part FOMATOL P(W14) Velký díl/Big part FOMATOL PW(W24) Velký díl/Big part (W14)Velký díl/Big part (W24) Velký díl/Big part			
		RETRO Speciál Velký díl/Big part			
	#UFI	K820-Y0FS-T001-0QWS			
1.2	#Relevant identified uses of the substance or mixture and uses advised against FOMATOL P, FOMATOL PW, W14, W24: Two-part powder positive developer designed for process black and white photo papers				
	RETRO Special: Two-piece special powder negative metho-hydroquinone developer design manual processing of black and white negative films, especially Retropan 320 soft films				
1.3	Details of the supplier of the safety data	sheet			
1.3	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) Eye Irrit 2;H319
	Classification and full text of H-statements, see section 16
	The most important adverse physicochemical, human health and environmental effects: May irritate eyes

2.2	Label elements (according to Regulation No 1272/2008/EC- CLP)		
hazard pictogi	ram	(1)	

signal word		Warning		
hazard H319 statement(s) (H-, EUH phrases)		Causes serious eye irritation		
precautionary P102 statement P280		Keep out of reach of children Wear eye protection IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.		
	Other hazards #The substance does nup in accordance with A	not belong to the category of PBT, vPvB and are not included in the list drawn Article 59 (1) of REACH		

SECTION 3		Composition/information on ingredients						
3.2		#Mixtures						
Folder name		Identifica	tion number	Content % mass	Classification	SCL, M, ATE, note		
Sodium carbonate		AS number S number dex number egistration umber	497-19-8 207-838-8 011-005-00-2 Not available	< 50	Eye Irrit2;H319	For substance there are Union workplace exposure limits – see to 8.1		
Potassium bromide Re		AS number S number dex number egistration Imber	7758-02-3 231-830-3 Not available 01-2119962195- 33-xxxx	< 5	Eye Irrit2;H319	Not available		

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

SECTION 4	First aid measures				
4.1	Description of first aid measures				
	#Immediate help is needed in case of eye contact After contact with skin: Rinse the affected area thoroughly with water.				
	<u> </u>				
	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 advice if symptoms persist				
	Exposure by inhalation : Remove patient to fresh air, seek medical advice if symptoms persist				
	Ingestion : Soothe the affected person, rinse the mouth with clean water. If conscious, give 0.25-0.5 liters of lukewarm water. Do not induce vomiting. If the affected person vomits spontaneously, check to avoid inhalation of vomit. Do not administer activated charcoal or any neutralizing agent. Seek medical attention if symptoms persist.				
	#Personal protection for first aid providers : If exposure to first aid is possible, use protective equipment listed in section 8.				
4.2	Most important symptoms and effects, both acute and delayed				
	Irritant - Irritating to eyes in direct contact. Vomiting, diarrhea, enamel damage, dermatitis, see section 11 for more detailed information on adverse reactions.				
4.3	Indication of any immediate medical attention and special treatment needed				

#There are no specific instructions, treatment symptomatically

SECTION 5	Firefighting measures
5.1	Extinguishing media The product (liquid) is not flammable. Extinguishing agents must be adapted to burning substances in surrounding.
	Inappropriate extinguishing media: N.a.
5.2	Special hazards arising from the substance or mixture No known. In case of fire after evaporation of water, dangerous decomposition products may be formed - sulfur dioxide and carbon 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				
	The spilled product by mechanical collection. According to the extent of leakage select the appropriate tools: broom, dustpan, vacuum equipment, etc. Minimize dust. Gather into a suitable labeled container for further processing or disposal. Spill site with water. Contaminated washing water contain and remove.				
6.4	Reference to other sections				
	#See section 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 container 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 control	ls/personal _l	orotection					
8.1	#Control parameters							
	International limit values for chemical agents (Occupational exposure limits, OELs):							
		International limit values for chemical agents (Occupational exposure limits, OELs)						
	Limit value - Eight hou				Limit value - Short term			
	People's Republic of China	ppm	mg/m 3	١٩	ppm	mg/m³ 6 (1)		
	Romania		1			3 (1)		
	People's Republic of China	Remarks (1) 15 minute	s average value					
	Romania	(1) 15 minute	s average value					
	Laying down limit					sure limits, OELs) – not available		
	Potassium bromide DNELs							
			Consu					
	Route of exposure		Chron	ic effec 0 ⁻⁹ mg/n	ts systemic			
	Inhalation Dermal			g/kg bw				
	PNECs		1	g/Rg 5W	ruuy			
	Environmental protection target				PNEC			
	Fresh water			0.0147 mg/L				
	Freshwater sediments			0.67mg/kg sediment dw				
	Marine water			0.0015 mg/L 0.002mg/L				
	Microorganisms in sewage treatment Soil (agricultural)			0.002mg/kg sediment	t dw			
	Sodium carbonate DNEL							
		Workers			Consumers			
	Route of exposure		chronic effects local		Acute effect local			
	Inhalation PNEC- Not available		10 mg/m ³			10 mg/m ³		
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 poluted clothes if needed. Resory Respiratory protection: No need for normal handling. For sensitive persons (due to possible respiratory irritation) it is recommended to use a respirator when handling the mixture. #Hand protection: Not required under normal handling							
	#Eye protection: protective glasses / shield (EN166) #Skin protection: not required, long-sleeved protective clothing recommended							
	Environmental exposure: Secure the spaces against the leakage into watercourses, soil and sewage system.							

SECTION 9	Physical and chemical properties				
9.1	Information on basic physical and chemical properties				
	Appearance	White powder			
	Odour	Nonspecific			
	#pH	about 11 (6 %)			
	Melting point/freezing point	Information not available			
	Initial boiling point and boiling range	Irrelevant			
	Flash point	Irrelevant			
	Flammability	Incombustible			
	Upper/lower flammability or explosive limits	Irrelevant			
	Vapour pressure	Irrelevant			
	Relative vapour density	Irrelevant			
	Absolute density	Information not available			
	Solubility – watter	cca 200g/l			
	Partition coefficient: n-octanol/water	Irrelevant			
	Auto-ignition temperature	Irrelevant			
	Decomposition temperature	Irrelevant			
	Kinematic viscosity;	Irrelevant			
	Particle characteristics	Information not available			
9.2	Other information	Not available			

SECTION 10	Stability and reactivity				
10.1	Reactivity				
	#Under normal conditions, there is no danger of reactivity. Reaction with acids may release sulfur dioxide				
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 dioxideand carbon oxides are formed - see section 5.

Possible evolution of sulfur dioxide at higher temperatures and reactions with acids

SECTION 1	Toxicological informat	tion	
11.1 #lr	nformation 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. No direct toxic effects are expected under normal use	
		Potassium bromide LD50 / oral /rat : >2000 mg/kg LD50 / dermal/ rabbit: >2000 mg/kg	
		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	
Skin corrosion	n/irritation	Based on available data, the criteria for this classification are not match up	
Serious eye d	damage/eye irritation	Causes serious eye irritation on direct contact	
Respiratory o	r skin sensitisation	Based on available data, the criteria for this classification are not match up. The ingredients have no sensitizing effects.	
Germ cell mu	tagenicity	Based on available data, the criteria for this classification are not match up. The ingredients are not mutagenic	
Carcinogenici	ity	Based on available data, the criteria for this classification are not match up. The ingredients do not have a carcinogenic effect	
Reproductive	Reproductive toxicity Based on available data, the criteria for this classification are not material for reproductive toxicity		
Specific targ	cific target organ toxicity — 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 haz		Based on available data, the criteria for this classification are not match up. In normal use, inhalation hazard is not expected	
Likely routes	of exposure and sympton	oms related to the physical, chemical and toxicological characteristics:	
No adverse accordance w	health effects are to be with generally applicable . (ingestion / swallowing	be expected under normal use in accordance with the instructions and in	
Not expected shortness of b		n strong heating the possibility of irritation of the mucous membranes, cough, under normal use	
Eye Contact:	Causes serious eye irri	tation on direct contact	
Immediate, de N.a.	elayed and chronic effe	cts of short and long term exposure: data not available	
11.2 In	nformation on other ha	azards	
#1	Information not availabl	e	

SECTION	Ecological information
12	

12.1	Toxicity
	#Not determined for the mixture. Due to its composition, no adverse effects on the environment are
	expected under normal use.
	Potassium bromide*
	LC50, freshwater fish/96 hr : >440 mg/L EC50, marine algae/72 hr: >440 mg/L
	EC50, freshwater microorganisms/3 hr: >1g/L
	*source: http://echa.europa.eu/ - Brief profile
	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
	No information available for the mixture. It is a mixture of mostly inorganic substances
12.3	Bioaccumulative potential
	No information available for the mixture. The ingredients have no bioaccumulation potential.
12.4	Mobility in soil
	No information available for the mixture. The mixture is soluble in water
12.5	Results of PBT and vPvB assessment
	No information available for the mixture. Substances are not identified as PBT or vPvB
12.6.	# Endocrine disrupting properties
	The mixture doesn't contein endocrine disrupting substances
12.7	Other adverse effects
	Not known

SECTION	N 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:	The spilled product by mechanical collection. Minimize dust. Gather into a suitable labeled container for further processing or disposal. Spill site with water. Contaminated washing water and mix the solution contain and remove. 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 sewerage.	
	# Physical / chemical properties that may affect waste management	Labeling according to Annex III of Directive 2008/98 / EC: For the product used containing silver compounds HP4- "Irritatint-skin irritation and eye damage"	
	The recommended method of disposal of contaminated product packaging:	Emptied containers pass to the authorized person	
	Waste legislation	Directive No. 2008/98/ES	

SECTION	Transport information
14	

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).

	transport of the product is not classified as a dang	<u>geradag (gerad).</u>
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	
14.5	Environmental hazard	Not , see to section 12
	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.

SECTION 16	Other information	
Abbreviation	ns, symbols	
Eye Irrit.2		Eye 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

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)

N.a.: not available

#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.gduv.de), European Chemicals Agency http://echa.europa.eu/

Classification (according to Regulation No 1272/2008 - CLP): calculation method

H-phrases:

H319 Causes serious eye 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	Cente Antipoisons-Antigifcentrum center	+32 70 245 245
Bulgaria	National Toxicology Information center- Hospital for Active Medical	+359 2 9154 409
	Treatment and Emergency Medicine 'N.I.Pirigov', Sofia	
Croatia	Poison Information Center/	+385 1 2348 342
	Centar za kontrolu otrovanja	
Denmark	Poison Center Hotline	+45 82 12 12 12

Country	Poison Centre	Tel number 24hour every day/ other time
Estonia	Poisoning centre Hotline	+372 16662
	Mürgistusinfo	
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)	+36 80 201 199
• •	Információszolgáltatás akut mérgezés eseén)	
Italy	Poisons Center CAV-Centro Antiveleni Roma	+39 06 68593726, +39 06 3054343,
		+39 06 49978000
Latvia	Toksikoloģijas un sepses klīnikas Saindēšanās un zāļu	+371 67042473
	informācijas centrs	
Lithuania	Poison Information Bureau -PIB	+370 8-5 236 20 52
Luxembourg	Belgian Poison Center	+352 8002 5500
Netherlands	National Poisons Information Center (nationaal vergiftigingen	+031 (0) 30 274 8888
	Informatie centrum,NVIC)	
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 ilstitute for Public Health (Centrum National de Informare	+40 21 318 36 06
	Toxicologica)	
Slovakia	National Toxicological Information Centre (Národné toxikologické	+421 2 54 774 166
	informačné centrum	
Spain	Toxicological Information Service (Servicio de Información	+34 91 562 04 20
	toxicologica)	
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 7.0: Assigned to UFI; change format safe sheet according to Commission Regulation (EU) No. 2020/878 and overall revision of the text and data. Merger of safety data sheets for mixtures Fomatol P big part/Big part, Fomatol PW big part/Big part and RETRO Special big part/Big part (replaced by Fomatol PW(W24) big part version 6.3 and RETRO Special big part version 2.1) Major changes in the document are marked with the symbol: #