



## Material Safety Data Sheet

According to Regulation No 1907/2006/EC – REACH, No. 2015/830 and No 1272/2008/EC - CLP

Date of revision : 02/16/2016

Version No: 5.0  
Replaced version No: 4.1

SECTION 1	Identification of the substance/mixture and of the company/undertaking	
1.1	Product identifier	<b>Black and white reversal film set, part B<sub>1</sub></b>
	Other name or labeling of product:	
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Concentrate of bleaching bath for processing of black and white reversal film Fomapan R100	
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 (Czech)	Toxicologic institute (TIS) Na Bojišti 1, 128 21 Praha 2 Tel. 224919293, 224915402 (continuous telephone information service)

SECTION 2	Hazards identification	
2.1	<b>Classification (according to Regulation No 1272/2008 – CLP)</b>	
	Eye.Irrit.2;H319 Skin Irrit.2;H315	
	<u>The most important adverse physicochemical, human health and environmental effects:</u> May cause serious eye irritation and skin irritation.	

2.2	Label elements (according to Regulation No 1272/2008/EC– CLP)	
	Identification of product	<b>Black and white reversal film set, part B<sub>1</sub></b>
	hazard pictogram	
	signal word	Warning

<i>hazard statement(s) (H- phrases)</i>	H319 H315	Causes serious eye irritation. Causes skin irritation
<i>precautionary statement (P- phrases)</i>	P102 P305+P351+P338  P302+ P352	Keep out of reach of children. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of water/soap.
		Contain: Sulphuric acid
		FOMA BOHEMIA spol. s r.o., J. Krušinky 1737/6, 500 02 Hradec Králové tel: 495 733 111

2.3	Other hazards
	The substance does not belong to the category of PBT, vPvB, SVHC

SECTION 3	Composition/information on ingredients					
3.2	Mixtures					
Folder name	Registration number	Index number	CAS number	ES number	Content % in the solution	Classification
Sulphuric acid	01-2119458838-20-0000	016-020-00-8	7664-93-9	231-639-5	< 15	SkinCorr.1A;H314

Solution

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

SECTION 4	First aid measures
4.1	Description of first aid measures
	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.
	After contact with skin: Wash affected area thoroughly with water.
	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.
	Exposure by inhalation: Remove patient to fresh air, rinse eyes, mouth and nasal cavity with lukewarm water.
	Ingestion: Calm affected person, rinse his mouth with clean water. Force the affected person to drink a glass of cold water (cca 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.
4.2	Most important symptoms and effects, both acute and delayed
	Not known

4.3	Indication of any immediate medical attention and special treatment needed
	In the workplace, running water and soap.

<b>SECTION 5</b>	<b>Firefighting measures</b>
5.1	Extinguishing media
	The product (liquid) is not flammable. Extinguishing agents must be adapted to burning substances in surrounding.
	Inappropriate extinguishing media: water
5.2	Special hazards arising from the substance or mixture
	At elevated temperatures or by contact with acid can release sulphur dioxide
5.3	Advice for firefighters: Breathing apparatus, workwear

<b>SECTION 6</b>	<b>Accidental release measures</b>
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 section 13

<b>SECTION 7</b>	<b>Handling and storage</b>
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



	Vapour pressure	<20 mbar
	Vapour density	Unknown
	Oxidising properties	No
	Relative density	1.24-1.25 g/cm <sup>3</sup>
	Solubility – watter	Solution
	Partition coefficient: n-octanol/water	Unknown
	Auto-ignition temperature	Irrelevant
	Decomposition temperature	N.a.
	Viscosity;	N.a.
	Explosive properties	No
9.2	Other information	
	Fat solubility	N.a.
	Conductivity	N.a.

<b>SECTION 10</b>	<b>Stability and reactivity</b>
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
	Reactions with metals, the possibility of hydrogen
10.4	Conditions to avoid
	High temperature. During the dilution Is necessary pour the product into water, not reversely!
10.5	Incompatible materials
	Iron, light metals, strong bases
10.6	Hazardous Decomposition Products
	Not available

<b>SECTION 11</b>	<b>Toxicological informations</b>
11.1	Information on toxicological effects
Acute toxicity	Based on available data, the criteria for this classification are not match up
Skin corrosion/irritation	Causes serious skin irritation
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	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

Carcinogenicity	Based on available data, the criteria for this classification are not match up
Reproductive toxicity	Based on available data, the criteria for this classification are not match up
Specific target organ toxicity — single exposure	Based on available data, the criteria for this classification are not match up
Specific target organ toxicity — repeated exposure	Based on available data, the criteria for this classification are not match up
Aspiration hazard	Based on available data, the criteria for this classification are not match up
<i>Sulphuric acid</i>	
Acute toxicity	
LD <sub>50</sub> , oral, rat = 2140 mg/kg	
LC <sub>50</sub> , inhal.,rat( 2h) = 375 mg/m <sup>3</sup>	
LC <sub>50</sub> , inhal., mouse(4h/8h) = 0.85 mg/l) / 0,6 mg/l	
NOAEC, inhal = 19.3 mg/m <sup>3</sup>	
<u>Likely routes of exposure and symptoms related to the physical, chemical and toxicological characteristics:</u>	
Toxicity oral. (ingestion / swallowing): Ingestion may cause strong burning of the digestive tract.	
Toxicity inhal. (inhalation): The product (steams) causes respiratory system irritation.	
Toxicity dermal. Causes skin irritation.	
Eye Contact: Causes serious eye irritation.	
Immediate, delayed and chronic effects of short and long term exposure: N.a.	

SECTION	Ecological information
12	
12.1	Toxicity
	Sulphuric acid is strong mineral acid, do to low pH has harmful local effect to aquatic organism Toxicity for fish: LC <sub>50</sub> , 96 h., Lepomis macrochirus = 16 - 28 mg/l Toxicity for invertebrate: LC <sub>50</sub> , 48 h., Daphnia magna > 100 mg/l Toxicity for algae: IC <sub>50</sub> , 72 h., Desmodesmus subspicatus > 100 mg/l EC10/LC10 nebo NOEC, waterfresh fish = 0.025 mg/l EC10/LC10 nebo NOEC, invertebrate = 0.15 mg/l
12.2	Persistence and degradability
	Inorganic substances .
12.3	Bioaccumulative potential
	It is not expected
12.4	Mobility in soil
	N.a., the product is soluble in water
12.5	Results of PBT and vPvB assessment
	Not available. Substances are not identified as a PBT or vPvB

12.6	Other adverse effects
	WGK = 1

<b>SECTION</b> 13	Disposal considerations	
13.1	Waste treatment methods	
	Code and type of waste	09 01 05* – bleaching solutions and solutions of bleaching fixers 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.
	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 quinone form. (oxidation process)
	Waste legislation	Directive No. 2008/98/ES

<b>SECTION</b> 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	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	See to section 12
	Marine pollutant	Not
14.6	Special precautions for user	See to section 8
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable

<b>SECTION</b> 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 (EC) No 2015/830, Commission Regulation (EU) 2015/830 of 28 May 2015 amending 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 Decree No. 381/2001 Coll. Establishing the Waste Catalogue. 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)
15.2	Chemical safety assessment
	The chemical safety assessment for the product was'n made.

<b>SECTION 16</b>	<b>Other information</b>
Abbreviations, symbols	
Eye Irrit. 2	Serious eye irritation (Category 2)
Skin Irrit.2	Skin Irritation (Category 2)
Skin Corr. 1A	Skin caustic (burns) (Cat. 1A)
<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)</p>	

<b>Materials used for the processing of safety data sheet</b>	
Information provided by the producer Material Safety Data Sheets (MSDS) for chemical substances	
<b>Classification (according to Regulation No 1272/2008 – CLP):</b> calculation method	
H-phrases :	
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
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 substance, which is not consistent with those of MSDS, excludes liability for defects, respectively damage, which would otherwise meet the producer, importer or retailer.

Revised safety data sheet:

**Revision:**

version 5.0 – new format MSDS ( Regulation 2015/830)