



Material Safety Data Sheet

According to Regulation No 1907/2006/EC – REACH, No. 453/2010 and No 1272/2008/EC - CLP

Date of revision : 01/23/2015

Version No: 5.1
Replaced version No: 5.0

SECTION 1	Identification of the substance/mixture and of the company/undertaking	
1.1	Product identifier	FOMATONER INDIGO, part A
	Other name or labeling of product:	
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Toner for blue toning of black and white photography	
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	Classification (according to Regulation No 1272/2008 – CLP)	
	The mixture is not classified - shows no hazardous properties	
	Classification (according to Directive No 1999/45/ES – (DPD)	
	The mixture is not classified - shows no hazardous properties	
	<u>The most important adverse physicochemical, human health and environmental effects:</u> Not available	

2.2	Label elements (according to Regulation No 1272/2008/EC– CLP)	
Identification of product		FOMATONER INDIGO, part A
hazard pictogram		
signal word		
hazard statement(s) (H-, EUH- phrases)		
precautionary statement (P- phrases)		
FOMA BOHEMIA spol. s r.o., J. Krušinky 1737/6, 500 02 Hradec Králové tel: 495 733 111		

2.3	Other hazards
	Potassium dichromate belongs to the category 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	
Potassium dichromate	01-2119454792-32-0000	024-002-00-6	7778-50-9	231-906-6	< 0,02	Ox. Sol. 2; H272 Carc. 1B; H350 Muta. 1B ; H340 Repr. 1B; H360FD Acute Tox. 2; H330 Acute Tox. 3; H301 STOT RE 1; H372 Acute Tox. 4 ; H312 Skin Corr. 1B; H314 Resp. Sens. 1; H334 Skin Sens. 1; H317 Aquatic Acute 1; H400 AquaticChronic 1; H410	O; R8 Carc.Cat. 2; R45 Muta.Cat. 2; R46 Repr.Cat. 2; R60-61 T+; R26 T; R25-48/23 Xn; R21 C; R34,R42/43 N; R50-53

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

SECTION 4	
First aid measures	
4.1	Description of first aid measures
	Disabled person to lead from the contaminated area, bringing it into a state of peace and to facilitate breathing by loosening clothing, watch, and if necessary to 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 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, lukewarm water rinse eyes, mouth and nasal cavity.
	Ingestion: Affected person calm, clear water rinse. Place to drink a glass (about 0.4 dl) of cold water. Do not induce vomiting. If affected persone 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.
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.

SECTION 5	Firefighting measures
5.1	Extinguishing media
	The product (liquid) is not flammable. Extinguishing agents adapt burning nearby.
	Inappropriate extinguishing media: N.a.
5.2	Special hazards arising from the substance or mixture
	N.a.
5.3	Advice for firefighters: Breathing apparatus, workwear

SECTION 6	Accidental release measures
6.1	Personal precautions, protective equipment and emergency procedures
	Zoom out persons not participating in the elimination of consequences of the accident out of reach. Ventilate enclosed spaces. When removing the consequences of the accident using the prescribed personal protective equipment. When working on the disposal of the accident contained breathing apparatus and full protective suit. No smoking and treatment with an open fire.
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 at least strongly dilute with water.
6.4	Reference to other sections
	See section 13

SECTION 7	Handling and storage
7.1	Precautions for safe handling

	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 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.
7.3	Specific end use(s)
	See in 1.2. , Other uses – not available

SECTION 8	Exposure controls/personal protection
8.1	Control parameters
	Government Regulation No 361/2007 Coll. - Conditions for health workers at work and occupational exposure limits in the air of workplaces and ways of measuring and evaluating. (Czech) Substance Cr 6+: PEL 0,05 mg/m ³ NPK-P 0,1 mg/m ³ Notice. No.432/2003 Coll., Laying down limit values of biological exposure tests: Urea test: Substance Cr 6+: total chromium 0,03 mg/g kreatinin (Finishing work shift on the end of workweek)
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: Use rubber (PE, nitril) sloves- recommended
	Eye protection: Safety glasses- recommended
	Skin protection: Workwear
	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-orange liquid
	Odour	Nonspecific
	pH (20 °C)	5,6-5,9
	Melting point/freezing point	< 0 °C
	Initial boiling point and boiling range	> 100 °C
	Flash point	Fireproof
	Evaporation rate	N.a.
	Flammability	Incombustible

	Upper/lower flammability or explosive limits	Irrelevant
	Vapour pressure	<20 mbar
	Vapour density	Unknown
	Oxidising properties	No
	Relative density	1,01 g/cm ³
	Solubility – water	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.

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 available
10.4	Conditions to avoid
	High temperature
10.5	Incompatible materials
	Not available
10.6	Hazardous Decomposition Products
	Not available

SECTION 11	Toxicological informations
11.1	Information on toxicological effects
Acute toxicity	Based on available data, the criteria for this classification are not match up
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 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
LD ₅₀ oral rat: 50 mg/kg (Potassium dichromate)	
<u>Likely routes of exposure and symptoms related to the physical, chemical and toxicological characteristics:</u>	
Toxicity oral. (ingestion / swallowing): Ingestion may cause moderate irritation or burns to the digestive tract.	
Toxicity inhal. (inhalation): The product (solution) is not dangerous.	
Toxicity dermal. The product (solution) is not dangerous.	
Eye Contact: The product (solution) is not dangerous.	
Immediate, delayed and chronic effects of short and long term exposure: N.a.	

SECTION	Ecological information
12	
12.1	Toxicity
	The product (solution) is not dangerous.
12.2	Persistence and degradability
	Inorganic substance. Irrelevant.
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
	Not available

SECTION 13	Disposal considerations	
13.1	Waste treatment methods	
	Code and type of waste	09 01 01* – aqueous developer solutions 20 01 17* - Photo chemicals 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.
	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).
	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	
14.2	UN proper shipping name	
14.3	Transport hazard class(es)	
14.4	Packing group	
	Classification code	
	Kemmler code	
	Labels	
14.5	Environmental hazards	see SECTION 12
14.6	Special precautions for user	
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	

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, autorisation, restriction chemicals (REACH) Regulation (EC) No 453/2010 Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures Direction No 67/548/EHS (DSD), 1999/45/ES (DPD) Act No. 350/2011 Coll. On chemical 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) applicable as from 1. January 2015 IMDG Code, MSC 93/22/Add.2 IATA Dangerous Goods Regulations, 56 th Edition
15.2	Chemical safety assessment
	The chemical safety assessment for the product was'n made.

SECTION 16	
Abbreviations, symbols	
Carc. Cat. 2	Carcinogenity (Category 2)
Muta Cat 2	Mutagenity (Category 2)
Repr. Cat. 2	Reproductive toxicity (Category 2)
Muta 1B	Germ cell mutagenicity (Category 1B)
Repr.1B	Reproductive toxicity (Category 1B)
Acute Tox.2,3,4	Acute toxicity (Category 2,3,4)
Skin Corr. 1B	Skin caustic (Cat. 1B)
Skin Sens. 1	Skin sensibilisation (Category 1)
Carc. 1B	Carcinogenicity (Category 1B)
Resp.Sens 1	Sensitisation- Respirat (Category 1)
Ox.Sol.2	Oxidising Solid (Category 2)
STOT RE 1	Specific target organ toxicity – Repeated exposure (Category 1)
Aquatic Acute 1	Hazardous to the aquatic environment, acute (Category 1)
Aquatic Chronic 1	Hazardous to the aquatic environment (Category 1)
O	Oxidizing
T+	Very toxic
T	Toxic
C	Caustic
Xn	Harmfull
N	hazardous to the aquatic environment
CLP	Regulation (ES) č.1272/2008
DPD	Direction (ES) 1999/45/ES
PBT	Persistent, bioaccumulation, toxic
vPvB	High persistent, high bioaccumulation
SVHC	Substance of very high concerns
DNEL	Derivated No-Effect Level
PNEC	Prediction No-Effect Concentration

Materials used for the processing of safety data sheet	
Information provided by the producer Material Safety Data Sheets (MSDS) for chemical substances	
R, H-phrases :	
H272	May intensify fire; oxidiser.
H350	May cause cancer .
H340	May cause genetic defects .
H330	Fatal if inhaled.
H351	Suspected of causing cancer .
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H301	Toxic if swallowed.
H372	Causes damage to organs through prolonged or repeated exposure .
H312	Harmful in contact with skin.
H317	May cause an allergic skin reaction.
H314	Causes severe skin burns and eye damage
H360FD	May damage fertility or the unborn child
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H410	Very toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.
R8	Contact with combustible material may cause fire.
R45	May cause cancer.
R46	May cause heritable genetic damage.
R26	Very toxic by inhalation.
R25	Toxic if swallowed.
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R21	Harmful in contact with skin.
R34	Causes burns.
R42	May cause sensitization by inhalation.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R60	May impair fertility
R61	May cause harm to the unborn child
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:

version 5.1 – changes in section 1.3 and 2.2– address of supplier