

Material Safety Data Sheet

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

Date of revision: 01/22/2015 Version No: 6.1

Replaced version No: 6.0

SECTION 1	Identification of the substance/mixture and of the company/undertaking		
1.1	Product identifier	FOMADUX LP-D, part C	
	Other name or labeling of product:		
1.2	Relevant identified uses of the substance o	r mixture and uses advised against	
	Concentrate developer for processing of industrial RTG 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 (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
	The most important adverse physicochemical, human health and environmental effects: Upon contact with the eyes can cause moderate irritation.

2.2 Label elements (acco	Label elements (according to Regulation No 1272/2008/EC- CLP)		
Identification of product	FOMADUX LP-D, part C		
The mixt	ure is not labeled - shows no hazardous properties		
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
	The substance does not belong to the category of PBT, vPvB, SVHC

SECTION 3		Compos	Composition/information on ingredients				
3.2		Mixture	Mixtures				
Folder name	Registration number	Index number	CAS number	ES number	Content % in the solution	Classifica	tion
Acetic acid	01- 2119475328 -30	607-002- 00-6	64-19-7	200-580-7	< 10	Flam Liq.3;H226 SkinCorr.1A;H314	R10 C;R35

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 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
	Maybe it emits toxic gases
5.3	Advice for firefighters: Breathing apparatus

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 PE 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) Acetic acid: PEL 25 mg/m ³ NPK-P 35 mg/m ³			
	Substance is not listed in Notice. No.432/2003 Coll., Laying down limit values of biological exposure tests: not available			
	DNEL: (acetic acid) Workers General Long-Term – inhal., local effect 25 mg/m³ Short-Term – inhal., local. effect 25 mg/m³			
	PNEC: (acetic acid) Freshwater 3 mg/l Seawater 0.3 mg/l Soil 0.47 ug/kg sediment dw Mikroorganisms in Sewasge Treatment Plant 85 mg/l			
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) gloves			
	Eye protection: Safety glasses			
	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	Colourless or sightly yellow liquid
	Odour	Moderate, acetic
	рН	2-3
	Melting point/freezing point	cca 0 ° C

	Initial boiling point and boiling range	cca 100 ° C
	Flash point	Fireproof
	Evaporation rate	N.a.
	Flammability	Incombustible
	Upper/lower flammability or explosive limits	Irrelevant
	Vapour pressure	Unknown
	Vapour density	Unknown
	Oxidising properties	No
	Relative density	1.16-1.18 g/cm3
	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.

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
	Reactions with metals, the possibility of hydrogen
10.4	Conditions to avoid
	High temperature
10.5	Incompatible materials
	Iron, light metals, strong bases
10.6	Hazardous Decomposition Products
	N.a.

SECTION	Toxicological informations
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11.1 Information on toxicologic	al 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: 3310 mg/kg (ace	etic acid)	
LD ₅₀ derm., rabbit: 1060 mg/kg (a	cetic acid))	
Likely routes of exposure and sympton	oms related to the physical, chemical and toxicological characteristics:	
Toxicity oral. (ingestion / swallowing)	:	
Ingestion may cause irritation or burn	ns to the digestive tract.	
Toxicity inhal. (inhalation):		
Inhalation of vapors may cause irritation of the upper respiratory tract		
Toxicity dermal.		
May cause irritation (redness) of skir	1	
Eye Contact:		
Causes serious eye damage		

SECTION	Ecological information
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12.1	Toxicity
	Low toxicity to the environment
12.2	Persistence and degradability
	Acetic acid: well biodegradable
12.3	Bioaccumulative potential
	It is not expected
12.4	Mobility in soil
	N.a., the product is soluble in water

Immediate, delayed and chronic effects of short and long term exposure:

N.a.

12.5	Results of PBT and vPvB assessment
	Not available. Substances are not identified as a PBT or vPvB
12.6	Other adverse effects
	N.a.

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
		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.
		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	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

IMDG Code,MSC 93/22/Add.2 IATA Dangerous Goods Regulations, 56th Edition	
European Agreement concerning the international carriage of dangerous goods (ADR) applicable as from 1. January 2015	
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	
labelling and packaging of substances and mixtures Direction No 67/548/EHS (DSD), 1999/45/ES (DPD)	
Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification,	

SECTION 16	
Abbreviations, symbols	
Flam Liq.3	Flammable liquid
Skin Corr. 1A	Skin caustic (burns) (Cat. 1A)
С	caustic
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 hight concerns
DNEL	Derivated No-Effect Level
PNEC	Prediction No-Effect Concentration

Materials used for the processing of safety data sheet Information provided by the producter Material Safety Data Sheets (MSDS) for chemical substances R, H-phrases: H226 Flammable liquid and vapour H314 Causes severe skin burns and eye damage R10 Flammable R35 Cause severe burns 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 producter, importer or retailer.

Revised safety data sheet:

Revision:

version 6.1 – changes in section 1.3 and 2.2– address of supplier, 14- changed information for maritine and air transport