

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	Identification of the substance/mixture and of the company/undertaking		
1.1	Product identifier	FOMADENT F	
	Other name or labeling of product:		
1.2	Relevant identified uses of the substance o	r mixture and uses advised against	
	Concentrate of acid Rapid Fixer for processing of	of dental 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, 50002 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 Bojisti 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 effect Upon contact with the eyes can cause moderate irritation.	

2.2 Lab	Label elements (according to Regulation No 1272/2008/EC- CLP)		
Identification of pro	oduct	FOMADENT F	
hazard pictogram			
signal word			
hazard	EUH 210	Safety data sheet available on request.	
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
	Sodium tetraborate decahydrate belongs to the category SVHC

SECTION 3	Composition/information on ingredients						
3.2	Mixtures						
Folder name	Registration numberIndex numberCAS numberES numberContent % in the solutionClassification				ation		
Acetic acid	01- 2119475328 -30	607-002-00- 6	64-19-7	200-580-7	< 5	Flam Liq.3;H226 SkinCorr.1A;H314	R10 C;R35
Sodium tetraborate decahydrate	01- 2119490790 -32-0000	005-011-01- 1	1303-96-4	215-540-4	< 2	Repr.1B;H360FD EyeIrrit.2;H319	Repr.Cat.2; R60-61
Trisodium nitrilotriacetate (Na3NTA) (Dissolvine A 92)	01- 2119519239 -36-0002	607-620-00- 6	5064-31-3	225-768-6	< 1	AcuteTox4;H302 Eye Irrit.2;H319 Carc.2;H351	Xn;R22 Xi;R36 CarcCat3;R40
Citric acid	01- 2119457026 -42-xxxx	Not available	5949-29-1	201-069-1	< 1	Eye Irrit.2;H319	Xi;R36

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
	At elevated temperatures or by contact with acid can release sulfur dioxide
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	

7.1	Precautions for safe handling
 While working to comply with basic requirements of safe work. Wear recommended personal equipment. Avoid contact with eyes. By manipulation prohibits eating, drinking and smoking, working with hot materials and o Equipment must be equipped with means of extinguishing in enclosed areas, ventilation 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) 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)WorkersGeneralLong-Term – inhal., local effect25 mg/m³Short-Term – inhal., local. effect25 mg/m³				
	PNEC : (acetic acid) 3 mg/l 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- 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	Colourless- Sightly yellow liquid
	Odour	Moderate, nonspecific
	pH (20 ° C)	5,5-5,8
	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	1,29-1,31 g/cm ³
	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
	Strong minerale acids
10.4	Conditions to avoid
	High temperature
10.5	Incompatible materials
	Not available
10.6	Hazardous Decomposition Products

Possible development of sulfur dioxide at elevated temperatures and reaction with acids

SECTION TO	Toxicological informations		
11.1 Info	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 da	amage/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 muta	agenicity	Based on available data, the criteria for this classification are not match up	
Carcinogenicity	у	Based on available data, the criteria for this classification are not match up	
Reproductive t	oxicity	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 LD ₅₀ oral rat: 3310 mg/kg (ace		Based on available data, the criteria for this classification are not match up otic acid)	
LD ₅₀ derm., rabbit : 1060 mg/kg (acetic acid))			
Likely routes of	f exposure and sympto	oms related to the physical, chemical and toxicological characteristics:	
Toxicity oral. (i	ingestion / swallowing)		
Ingestion may cause irritation or burns to the digestive tract. It causes nausea.			
Toxicity inhal.	Toxicity inhal. (inhalation):		
The product (solution) is not dangerous.			
Toxicity dermal.			
The product (solution) is not dangerous.			
Eye Contact:			
Upon contact with the eyes can cause moderate irritation.			
Immediate, delayed and chronic effects of short and long term exposure: N.a.			

SECTION	ON Ecological information	
12		
12.1	Toxicity	
	Low toxicity to the environment	
12.2	Persistence and degradability	
	Acetic acid: well biodegradace. Well biodegradace is supposed at other 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
	Not available

SECTION	Disposal considerations	
13		
13.1	Waste treatment methods	
	Code and type of waste	09 01 04* – fixer solutions
		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 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).

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, 56th Edition	
15.2	Chemical safety assessment	
	The chemical safety assessment for the product was n made.	

SECTION 16	
Abbreviations, symbols	
Carc.2	Carcinogenicity (Category 2)
Flam Liq.3	Flammable liquid (Category 3)
Repr.1B	Reproductive toxicity (Category 1B)
Acute Tox.4	Acute toxicity (Category 4)
Skin Corr. 1A	Skin corrosion (Cat. 1A)
Skin Corr. 1B	Skin corrosion (Cat. 1B)
Eye Irrit.2	Serious eye irritation (Cat. 2)
Carc. cat.3	Carcinogenicity (Category 3)
Repr.Cat.2	Reproductive toxicity (Category 2)
С	caustic
Xn	harmfull
Xi	irritation
CLP	Regulation (ES) č.1272/2008
DPD	Direction (ES) 1999/45/ES
РВТ	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 Da	ta Sheets (MSDS) for chemical substances
R, H-phrases :	
H351	Suspected of causing cancer
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H319	Causes serious eye irritation
H314	Causes severe skin burns and eye damage
H360FD	May damage fertility or the unborn child
R10	Flammable
R22	Harmful if swallowed
R34	Causes burns
R35	Causes severe burns
R36	Irritating to eyes
R40	Limited evidence of a carcinogenic effect
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 producter, importer or retailer.

Revised safety data sheet:

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