

SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006

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Trade name:	FUCHSIN ACID, C.I. 42685				
Product code:	FA-P-X**	Date of compilation:	16 Feb 2017	Version:	3

SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1.	Product identifier
	Trade name: FUCHSIN ACID, C.I. 42685
	Chemical name: -
	Catalogue number: FA-P-X**
1.2.	Relevant identified uses of the substance or mixture and uses advised against
	Uses: For staining connective tissues according to Van Gieson and Mallory
	Uses advised against: Only the identified uses are advised.
	Reason why uses advised against: The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes
1.3.	Details of the supplier of the safety data sheet
	Supplier: BioGnost Ltd.
	Address: Medjugorska 59, Zagreb
	Telephone number: +385 1 2409997
	Telefax: 00-385-1-2404039
	e-mail of competent person: vladimir.ramljak@biognost.hr
	National contact: Vladimir Ramljak, professor of biology
1.4.	Emergency telephone numbers
	National Protection and Rescue Directorate: 112
	Medical information: 01-23-48-342
	Other information: -

SECTION 2. Hazards identification									
2.1.	Classification of the substance or mixture								
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)								
	<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Hazard class and category code:</th> <th style="text-align: left;">Hazard statements*:</th> </tr> </thead> <tbody> <tr> <td>Skin Irrit. 2</td> <td>H315</td> </tr> <tr> <td>Eye Irrit. 2</td> <td>H319</td> </tr> <tr> <td>STOT SE 3</td> <td>H335</td> </tr> </tbody> </table>	Hazard class and category code:	Hazard statements*:	Skin Irrit. 2	H315	Eye Irrit. 2	H319	STOT SE 3	H335
Hazard class and category code:	Hazard statements*:								
Skin Irrit. 2	H315								
Eye Irrit. 2	H319								
STOT SE 3	H335								
2.1.2.	Additional information								
	-								
* For full text of Hazard- and EU Hazard-statements: see SECTION 16									
2.2.	Label elements								
	Product identification: FUCHSIN ACID, C.I. 42685								
	Identification number: -								
	Authorisation number: -								

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Hazard pictograms:	 GHS07
Signal word:	Warning
Hazard statements:	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Precautionary statements:	P261 Avoid inhaling dust. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental hazard information (EU):	-
2.3. Other hazards	-

SECTION 3. Composition/information on ingredients

CAS/EC/ Index number	REACH Registrat ion No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
3244-88-0/ 221-816-5/ -	-	~60	3-(1-(4-Amino-3-methyl-5-sulfonate-phenyl)-1- (4-amino-3-sulfonatophenyl) methylene) cyclohexane-1,4-diene-1-sulfonic acid	Skin Irr. 2; H315 Eye Irr. 2; H319 STOT SE 3; H335

SECTION 4. First aid measures

4.1.	Description of first aid measures	
	General notes:	Treat symptomatically
	Following inhalation:	Immediately remove the afflicted person to fresh air. If the afflicted person stops breathing, apply artificial respiration. If the breathing is difficult, provide the afflicted person with oxygen. Enable medical assistance if cough or other symptoms persist.
	Following skin contact:	In case of skin contact, wash the skin with copious amounts of water for at least 15 minutes. Immediately take off all contaminated clothing and shoes. Enable medical assistance if irritation occurs.

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	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 15 minutes with the eyelids held wide open. Immediately enable medical assistance.
	Following ingestion:	If the afflicted person is conscious, provide them with 2-4 glasses of milk or water. DO NOT INDUCE VOMITING. Do not put anything in mouth of the afflicted person. Enable medical assistance if irritation occurs.
	Self-protection of the first aider	No information available
4.2.	Most important symptoms and effects, both acute and delayed	
	Following inhalation:	Allergic persons may display irritation after prolonged or repeated exposure.
	Following skin contact:	May cause skin irritation.
	Following eye contact:	May cause serious eye irritation.
	Following ingestion:	Swallowing may cause discomfort in abdomen and abdominal pains.
4.3.	Indication of any immediate medical attention and special treatment needed	
	-	

SECTION 5. Firefighting measures		
5.1.	Extinguishing media	
	Suitable extinguishing media:	Use water jet for colling the container. Use water jet, dry chemicals, carbon dioxide or suitable foam. Use agents suitable for extinguishing fire.
	Unsuitable extinguishing media:	No information available
5.2.	Special hazards arising from the substance or mixture	
	Hazardous byproducts of fire:	Carbon, nitrogen, sulfur and sodium oxides.
5.3.	Advice for firefighters	
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Irritating and highly toxic gases occur as byproducts of thermal degradation or burning.	
5.4.	Additional information	
	Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.	

SECTION 6. Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personnel	
	Protective equipment:	Wear suitable protective equipment (see Section 8).
	Accident prevention methods:	Secure protective zone, call 112 in case of accident.

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	Emergency procedures:	Remove or neutralize all factors that may exacerbate the condition, use all allowed means of containing the situation and use recommended means of personal protection.
6.1.2.	For emergency responders:	
		Wear protective equipment (see Section 8).
6.2.	Environmental precautions:	
		Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.
6.3.	Methods and materials for containment and cleaning up	
6.3.1.	Bunding, covering of drains; capping procedures:	Vacuum or dust and place in a suitable container
6.3.2.	Cleaning up:	Clean the spilled material immediately in order with instructions described in section Protective equipment. Avoid forming dust. Ventilate the room.
6.3.3.	Other information:	Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112).
6.4.	Reference to other sections	
		-

SECTION 7. Handling and storage		
7.1.	Precautions for safe handling	
7.1.1.	Protection measures	
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.
	Other measures:	-
7.1.2.	Advice on general occupational hygiene:	
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating. Use with appropriate ventilation. Avoid forming and accumulation of dust. Do not get in eyes, on skin, or on clothing. Keep the container tightly closed. Avoid swallowing and breathing.	
7.2.	Conditions for safe storage, including any incompatibilities	
	Technical measures and storage conditions:	Keep container tightly closed. Keep in cool, dry and well-ventilated space, away from incompatible substances.
	Packaging materials:	Manufacturer's original packaging.
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.

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Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).
7.3. Specific end use(s)	
Recommendations:	-
Industrial sector specific solutions:	-

SECTION 8. Exposure controls/personal protection

8.1. Control parameters				
Substance	CAS No	Occupational exposure limit values/short term values		Biological limit values
		ppm	mg/m ³	
Contains no hazardous substances	-	-	-	-
Substance:	-			
EC No:	-	CAS No:	-	
DNEL				
Industrial				
Route of exposure:	Route of exposure:	Route of exposure:	Route of exposure:	Route of exposure:
Oral	-	-	-	-
Inhalation	-	-	-	-
Dermal	-	-	-	-
Critical physical parameters: solubility, flammability, corrosivity:		-		
Consumer				
Route of exposure:	Route of exposure:	Route of exposure:	Route of exposure:	Route of exposure:
Oral	-	-	-	-
Inhalation	-	-	-	-
Dermal	-	-	-	-
PNEC				
Environmental protection target		PNEC		
Fresh water		No information available		
Freshwater sediments		No information available		

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Marine water	No information available
Marine sediments	No information available
Food chain	No information available
Microorganisms in sewage treatment	No information available
Soil (agricultural)	No information available
Air	No information available

8.2.	Exposure controls	
8.2.1.	Appropriate engineering controls	
	Substance/mixture related measures to prevent exposure during identified uses:	Use personal protective equipment. Do not eat, drink or smoke in the workspace.
	Structural measures to prevent exposure:	No information available
	Organisational measures to prevent exposure:	Organization of work in order to reduce other worker's influence during work process.
	Technical measures to prevent exposure:	No information available
8.2.2.	Personal protection equipment:	
8.2.2.1.	Eye and face protection:	Protective glasses or visor in accordance with OSHA regulations.
8.2.2.2.	Skin protection:	
	Hand protection:	Use appropriate gloves for skin protection.
	Other skin protection:	Use appropriate clothes for skin protection.
8.2.2.3.	Respiratory protection:	Follow OSHA regulation or HR EN 149 standard. Use respirator in accordance with HR EN 149 standard if necessary.
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

SECTION 9. Physical and chemical properties	
9.1.	Information on basic physical and chemical properties

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	Value	Method
Physical state:	Solid	No information available
Colour:	Green	No information available
Odour:	No information available	No information available
Odour threshold;	No information available	No information available
pH:	No information available	No information available
Melting point / freezing point;	No information available	No information available
Initial boiling point and boiling range:	No information available	No information available
Flash point:	No information available	No information available
Evaporation rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Upper/lower flammability or explosive limits:	No information available	No information available
Vapour pressure:	No information available	No information available
Vapour density:	No information available	No information available
Relative density	No information available	No information available
Bulk density:	No information available	No information available
Solubility(ies):	10 g/L in water (20°C)	No information available
Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
Viscosity:	No information available	No information available
Explosive properties:	No information available	No information available
Oxidising properties:	No information available	No information available
9.2.	Other information	
	-	

SECTION 10.: Stability and reactivity		
10.1.	Reactivity:	No information available
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.
10.3.	Possibility of hazardous reactions:	Strong oxidants.
10.4.	Conditions to avoid:	No information available
10.5.	Incompatible materials:	Incompatible materials, heat.
10.6.	Hazardous decomposition products:	No information available

SECTION 11. Toxicological information
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11.1. Information on toxicological effects

Acute toxicity:

Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral:	No information available	-	No information available	-	-
Dermal:	No information available	-	No information available	-	-
Inhalation:	No information available	-	No information available	-	-

Specific target organ toxicity - single exposure (STOT-SE):

	Specific effects	Target organ	Note
Oral:	No information available	No information available	-
Dermal:	No information available	No information available	-
Inhalation:	No information available	No information available	-

Aspiration hazard:

No information available

Irritation and corrosion

	Exposure time	Species	Evaluation	Method	Note
Skin corrosion/irritation	-	-	-	-	No information available
Serious eye damage/irritation	-	-	-	-	No information available

Sensitization

Skin sensitization:	No information available
Respiratory sensitization:	No information available

Symptoms related to the physical, chemical and toxicological characteristics

Oral exposure:	Swallowing may cause discomfort in abdomen and abdominal pains.
Dermal exposure:	Causes skin irritation.
Inhalation exposure:	Allergic persons may display irritation after prolonged or repeated exposure.
Eye exposure:	Causes serious eye irritation.

Repeated dose toxicity (subacute, subchronic, chronic)

Dose	Exposure time	Species	Method	Evaluation	Note
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Subacute oral	No information available	-				
Subacute dermal	No information available	-				
Subacute inhalation	No information available	-				
Subchronic oral	No information available	-				
Subchronic dermal	No information available	-				
Subchronic inhalation	No information available	-				
Chronic oral	No information available	-				
Chronic dermal	No information available	-				
Chronic inhalation	No information available	-				

Specific target organ toxicity - repeated exposure (STOT-RE):

	Specific effects	Target organ	Note
Subacute oral	No information available	No information available	-
Subacute dermal	No information available	No information available	-
Subacute inhalation	No information available	No information available	-
Subchronic oral	No information available	No information available	-
Subchronic dermal	No information available	No information available	-
Subchronic inhalation	No information available	No information available	-
Chronic oral	No information available	No information available	-
Chronic dermal	No information available	No information available	-
Chronic inhalation	No information available	No information available	-

CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)

Carcinogenicity:	No information available
Mutagenicity <i>in-vitro</i> :	No information available

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	Genotoxicity:	No information available
	Mutagenicity <i>in-vivo</i> :	No information available
	Germ cell mutagenicity :	No information available
	Reproductive toxicity:	No information available
	Summary of evaluation of the CMR properties; :	-
11.2.	Practical experiences:	
	Classification observations:	No information available
	Other observations:	No information available
11.3.	General notes:	
	-	

SECTION 12. Ecological information

12.1.	Toxicity					
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants:	IC ₅₀	8 days	No information available	No information available	No information available	-
Other organisms:	LC ₅₀	72 hours	No information available	No information available	No information available	-
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants:	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms:	-	-	-	-	-	-

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12.2. Persistence and degradability
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Abiotic degradation					
	Degradation half-lives		Method	Evaluation	Note
Marine water	No available information		No information available	No information available	-
Fresh water	No available information		No information available	No information available	-
Air	No available information		No information available	No information available	-
Soil	No available information		No information available	No information available	-

Biodegradation					
% Degradation	Time (days)		Method	Evaluation	Note
No information available	No available information		No information available	No information available	No information available

12.3. Bioaccumulative potential
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Octanol-water partition coefficient (log Kow)						
Value	Concentration	pH	°C	Method	Evaluation	Note
No information available	No information available	-	-	No information available	No information available	No information available

Bioconcentration Factor (BCF)					
Value	Species		Method	Evaluation	Note
No information available	No available information		No information available	No information available	No information available

Chronic ecotoxicity						
Value	Dose	Exposure time	Species	Method	Evaluation	Note
Chronic toxicity on fish	LC ₅₀	No	No	No	No information	-

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		information available	information available	information available	available	
Chronic toxicity on crustacea (Daphnia)	EC ₅₀	No information available	No information available	No information available	No information available	-

12.4. Mobility in soil

Known or predicted distribution in environmental compartments:					
No information available					
Surface tension:					
	Value	°C	Concentration	Method	Note
	No information available	No information available	No information available	No information available	-

Adsorption / desorption

Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-Water	No information available	No information available	No information available	No information available	-
Water-Air	No information available	No information available	No information available	No information available	-
Soil-Air	No information available	No information available	No information available	No information available	-

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

No information available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal:

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	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
13.1.2.	Waste codes/waste designations according to Low:
	No information available
13.1.3.	Waste treatment – relevant information:
	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.
13.1.6.	Relevant Community provisions:
	-

SECTION 14. Transport information

Transporting/shipment by road (ADR)	
UN number:	Not subject to marking regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by rail (RID)	
UN number:	Not subject to marking regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by inland waterways (ADN)	
UN number:	Not subject to marking regulations.
UN proper shipping name:	-
Transport hazard class(es):	-

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Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by sea (IMDG)	
UN number:	Not subject to marking regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	-
Transporting/shipment by air (ICAO-TI/IATA-DGR)	
UN number:	Not subject to marking regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

SECTION 15. Regulatory information	
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
	EU regulations
	Authorisation and/or restrictions on use
	Authorisations: -
	Restrictions: -

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	Other EU regulations:	<p>EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;</p> <p>The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);</p> <p>EC Regulation No. 2037/2000 of the European Parliament and Council of 29 June 2000 on ozone-depleting substances;</p> <p>EC Regulation No. 689/2008 of the European Parliament and Council of 17 June 2008 concerning the export and import of dangerous chemicals;</p> <p>EC Regulation No. 850/2004 of the European Parliament and Council of 29 April 2004 on persistent organic pollutants;</p> <p>Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives</p>
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)	
	National legislation:	<p>Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act</p>
15.2. Chemical safety assessment		
	None	

SECTION 16. Other information												
16.1.	Indication of changes:	-										
16.2.	Abbreviations and acronyms:	<table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">PBT</td> <td>Stable, bioaccumulative and toxic</td> </tr> <tr> <td>vPvB</td> <td>Strongly stable and strongly bioaccumulative</td> </tr> <tr> <td>LD₅₀</td> <td>Lethal dose, 50%</td> </tr> <tr> <td>LC₅₀</td> <td>Lethal concentration, 50%</td> </tr> <tr> <td>TCOJ</td> <td>Specific target organ toxicity - single exposure</td> </tr> </table>	PBT	Stable, bioaccumulative and toxic	vPvB	Strongly stable and strongly bioaccumulative	LD ₅₀	Lethal dose, 50%	LC ₅₀	Lethal concentration, 50%	TCOJ	Specific target organ toxicity - single exposure
PBT	Stable, bioaccumulative and toxic											
vPvB	Strongly stable and strongly bioaccumulative											
LD ₅₀	Lethal dose, 50%											
LC ₅₀	Lethal concentration, 50%											
TCOJ	Specific target organ toxicity - single exposure											
16.3.	Key literature references and source of data:	-										
16.4. Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)												
	Classification	Classification procedure										
	-	-										
16.5. Relevant H statements (number and full text)												
	H: 315 319 335	<p>Causes skin irritation.</p> <p>Causes serious eye irritation.</p> <p>May cause respiratory irritation.</p>										
16.6. Training advice:												
		-										

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16.7.	Further information:	<p>** "X" in the product code marks different volumes (different packagings of the product)</p> <p>We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.</p>
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ANNEX: Exposure scenario resulting to Chemical safety assessment
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