

Trading name:	<b>METHYL VIOLET 2B, C.I. 42535</b>		
Product code:	MV2B-P-X**	Revision date:	31.07.2019. Version: 1

**SECTION 1. Identification of the substance/mixture and of the company/undertaking**

<b>1.1. Product identifier</b>	
Substance name:	METHYL VIOLET 2B, C.I. 42535
EC No:	616-846-4
Synonyms:	Basic Violet 1
Catalogue number:	MV2B-P-X**
REACH registration number:	-
CAS No:	8004-87-3
Index no.:	-
<b>1.2. Relevant identified uses of the substance or mixture and uses advised against</b>	
Uses:	For microscopy.
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.
<b>1.3. Details of the supplier of the safety data sheet</b>	
Supplier:	BioGnost Ltd.
Address:	Medjugorska 59, Zagreb
Telephone number:	+385 1 2409997
Fax no.:	+385 1 2404039
e-mail of competent person:	<a href="mailto:msds@biognost.hr">msds@biognost.hr</a>
National contact:	-
<b>1.4. Emergency telephone number</b>	
National Protection and Rescue Directorate:	112
Medical information:	+385 1 2348 342
Other information:	-




**SECTION 2. Hazards information**

<b>2.1. Classification of the substance or mixture</b>	
<b>2.1.1. Classification according to Regulation (EC) No 1272/2008 (CLP)</b>	
Hazard class and category code:	Hazard statements*:
Acute Tox. 4	H302
Carc. 2	H351
Aquatic Acute 1	H400
<b>2.1.2. Additional information</b>	
-	

\*For full text of Hazard- and EU Hazard-statements: see Section 16

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**2.2. Classification according to EC Directive Nr. 1272/2008 (CLP)**

Product identification:	METHYL VIOLET 10B, C.I. 42555
Identification number:	-
Authorization no.:	-
Hazard pictograms:	 <p>GHS07</p>  <p>GHS08</p>  <p>GHS09</p>
Signal word:	Danger
Hazard statements:	H302 Harmful if swallowed. H351 Suspected of causing cancer. H400 Very toxic to aquatic life.
Precautionary statements:	P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P308 + P313 IF exposed or concerned: Get medical advice/attention.
Further information:	-

**2.3. Other hazards**

-
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**SECTION 3. Composition/information on ingredients**

CAS No	EC No:	Index no.	Identification name	Weight % content (or range)
8004-87-3	616-846-4	-	Basic Violet 1	90-100

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<b>SECTION 4. First aid measures</b>	
4.1.	Description of first aid measures
	General notes: -
	Following inhalation: Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.
	Following skin contact: Remove contaminated clothing. Immediately wash with copious amounts of water for at least 15 minutes. Seek medical assistance if the symptoms of irritation remain.
	Following eye contact: Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.
	Following ingestion: DO NOT induce vomiting. If the afflicted person is unconscious, do not provide them with anything orally. Seek medical attention in case of irritation or other symptoms.
	Self-protection of the first aider: -
4.2.	Most important symptoms and effects, both acute and delayed
	Following inhalation: Harmful if swallowed.
	Following skin contact: Harmful by inhalation and in contact with skin.
	Following eye contact: Risk of serious damage to eyes.
	Following ingestion: Harmful if swallowed.
4.3.	Indication of any immediate medical attention and special treatment needed
	-

<b>SECTION 5. Firefighting measures</b>	
5.1.	Extinguishing media
	Suitable extinguishing media: In case of fire use water spray for cooling the jars. Use water spray, dry dust, CO <sub>2</sub> , or a suitable foam.
	Unsuitable extinguishing media: -
5.2.	Special hazards arising from the substance or mixture
	Hazardous combustion products: -
5.3.	Advice for firefighters
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.
5.4.	Additional information
	-

<b>SECTION 6. Accidental release measures</b>	
6.1.	Personal precautions, protective equipment and emergency procedures

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6.1.1.	For non-emergency personnel	
	Protective equipment:	Use personal protective equipment (see Section 8).
	Accident prevention methods:	-
	Emergency procedures:	-
6.1.2.	For emergency responders:	
	-	
6.2.	Environmental precautions:	
	-	
6.3.	Methods and material for containment and cleaning up	
6.3.1.	For creating barriers, covering and sealing:	-
6.3.2.	Cleaning up:	Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and involved materials with water.
6.3.3.	Other information:	-
6.4.	Reference to other sections	
	-	

<b>SECTION 7. Handling an storage</b>		
7.1.	Precautions for safe handling	
7.1.1.	Protection measures	
	Measures to prevent fire:	Keep away from sources of ignition and heat. Do not use tools that cause sparks.
	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.	
7.2.	Conditions for safe storage, including any incompatibilities	
	Technical measures and storage conditions:	Wash hands thoroughly after handling. Use with appropriate ventilation. Minimize dust formation. Avoid inhaling vapor, dust, mist or gas. Avoid contact with skin, eyes and clothes. Keep in tightly closed container. Avoid swallowing and breathing.
	Packaging materials:	Manufacturer's original packaging.
	Requirements for storage rooms and vessels:	Keep container tightly closed. Keep in cool, dry and well-

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		ventilated space, away from incompatible substances.
	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:	No information available.
<b>7.3. Specific end use(s)</b>		
	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 <sup>3</sup>	
-	-	-	-	-

Substance name:	-
EC No:	-
CAS No:	-

**DNEL**

**Industrial**

Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	-	-	-	-
Inhalation	-	-	-	-
Dermal	-	-	-	-

Critical physical parameters: solubility, flammability, corrosivity:

**Consumer**

Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	-	-	-	-
Inhalation	-	-	-	-
Dermal	-	-	-	-

**PNEC**

Environmental protection target	<b>PNEC</b>
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:	Use with appropriate ventilation.

**8.2.2. Personal protection equipment**

8.2.2.1. Eye and face protection:	Safety glasses that stick to face (preventing splashing) or visor.
8.2.2.2. Skin protection	
Hand protection:	In case of coming into thorough contact, use butyl rubber gloves (0.4 mm thick). In case of contact with drops, use polychlorene gloves (0.1 mm thick).
Other skin protection:	During everyday work use cotton clothing and suitable footwear, such as rubber boots or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.
8.2.2.3. Respiratory protection:	If the concentration level exceeds the GVI values, use full gas mask equipped with brown filter A.
8.2.2.4. Thermal hazards:	-

**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

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**SECTION 9. Physical and chemical properties**

9.1. Information on basic physical and chemical properties			
		Value	Method
	Physical state:	powder	No information available
	Color:	blue green	No information available
	Odor:	No information available	No information available
	Odor threshold:	No information available	No information available
	pH:	No information available	No information available
	Melting point / freezing point:	137 °C	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
	Vapor pressure:	No information available	No information available
	Vapor 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):	No information available	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 (room temperature).
10.3.	Possibility of hazardous reactions:	No information available
10.4.	Conditions to avoid:	Incompatible materials.

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10.5.	Incompatible materials:	Strongly oxidizing media.
10.6.	Hazardous decomposition products:	No information available

**SECTION 11. Toxicological information**

11.1. Information on toxicological effects

Acute toxicity:

Route of exposure:	Method	Species	Dose LD <sub>50</sub> /LC <sub>50</sub>	Exposure time	Results
Oral exposure:	No information available	rat	LD <sub>50</sub> = 413 mg/kg	No information available	-
Dermal exposure:	No information available	No information available	No information available	No information available	-
Inhalation exposure:	No information available	No information available	No information available	No information available	-

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

	Specific effects	Target organ	Note
Oral exposure:	No information available	No information available	-
Dermal exposure:	No information available	No information available	-
Inhalation exposure:	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	No information available	-	No information available	No information available
Serious eye damage/irritation	No information available	No information available	-	No information available	No information available

Sensitization

Dermal exposure:	No information available
Inhalation exposure:	No information available

Symptoms related to the physical, chemical and toxicological characteristics

Oral exposure:	Harmful if swallowed.
Dermal exposure:	Harmful by inhalation and in contact with skin.



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Inhalation exposure:	Harmful if swallowed.
Eye exposure:	Risk of serious damage to eyes.

Repeated dose toxicity (subacute, subchronic, chronic)

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

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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
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:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.
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<b>11.2. Practical experiences:</b>	
Remarks relevant for classification:	No information available
Other remarks:	No information available
<b>11.3. General notes:</b>	
-	

**SECTION 12. Ecological information**

<b>12.1. Toxicity</b>						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	<i>S. gairdnerii</i>	No information available	0.047 mg/l	-
Crustacea:	EC <sub>50</sub>	48 hours	<i>Daphnia magna</i>	No information available	420 mg/l	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No	No	No information	-

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			information available	information available	available	
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

**12.2. Persistence and degradability**

Abiotic degradation				
	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	-
Fresh water	No information available	No information available	No information available	-
Air	No information available	No information available	No information available	-
Soil	No information available	No information available	No information available	-

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

**12.3. Bioaccumulative potential**

Partition coefficient: n-octanol/water (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 information available	No information available	No information available	No information available

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Chronic ecotoxicity						
Value	Dose	Exposure time	Species	Method	Evaluation	Note
Chronic toxicity on fish	LC <sub>50</sub>	No information available	No information available	No information available	No information available	-
Chronic toxicity on crustacea ( <i>Daphnia</i> )	EC <sub>50</sub>	No information available	No information available	No information available	No information available	-

<b>12.4. Mobility in soil</b>						
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	-		

<b>Adsorption / desorption</b>						
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	No information available	-
Water-air	No information available	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	No information available	-

<b>12.5. Results of PBT and vPvB assessment</b>						
No information available						

<b>12.6. Other adverse effects</b>						
No information available						

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<b>SECTION 13. Disposal considerations</b>	
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	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 Law:
	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:
	-

<b>SECTION 14. Transport information</b>	
Transporting/shipment by road (ADR)	
UN number:	3077
UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (C.I. Basic Violet 1)
Transport hazard class(es):	9
Packing group:	III
Environmental hazard(s):	yes
Special precautions for user:	-
Transporting/shipment by rail (RID)	
UN number:	3077
UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (C.I. Basic Violet 1)
Transport hazard class(es):	9
Packing group:	III
Environmental hazard(s):	yes
Special precautions for user:	-
Transporting/shipment by inland waterways (ADN)	
UN number:	3077

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UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (C.I. Basic Violet 1)
Transport hazard class(es):	9
Packing group:	III
Environmental hazard(s):	yes
Special precautions for user:	-

Transporting/shipment by sea (IMDG)

UN number:	3077
UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (C.I. Basic Violet 1)
Transport hazard class(es):	9
Packing group:	III
Environmental hazard(s):	yes
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-

Transporting/shipment by air (ICAO-TI/IATA-DGR)

UN number:	3077
UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (C.I. Basic Violet 1)
Transport hazard class(es):	9
Packing group:	III
Environmental hazard(s):	yes
Special precautions for user:	-

Further information: Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9.

**SECTION 15 REGULATORY INFORMATION**

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	EU regulations	
	Authorization and/or restrictions of use	
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)	
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Sustainable Waste Management Act, Transport of Hazardous Substances Act

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15.2.	Chemical safety assessment
	None

**SECTION 16. Other information**

16.1.	Indication of changes:	-										
16.2.	Abbreviations and acronyms:	<table> <tr> <td>PBT</td> <td>Stable, bioaccumulative and toxic</td> </tr> <tr> <td>vPvB</td> <td>Strongly stable and strongly bioaccumulative.</td> </tr> <tr> <td>LD<sub>50</sub></td> <td>Lethal dose, 50%</td> </tr> <tr> <td>LC<sub>50</sub></td> <td>Lethal concentration, 50%</td> </tr> <tr> <td>STOT-SE</td> <td>Specific target organ toxicity - single exposure</td> </tr> </table>	PBT	Stable, bioaccumulative and toxic	vPvB	Strongly stable and strongly bioaccumulative.	LD <sub>50</sub>	Lethal dose, 50%	LC <sub>50</sub>	Lethal concentration, 50%	STOT-SE	Specific target organ toxicity - single exposure
PBT	Stable, bioaccumulative and toxic											
vPvB	Strongly stable and strongly bioaccumulative.											
LD <sub>50</sub>	Lethal dose, 50%											
LC <sub>50</sub>	Lethal concentration, 50%											
STOT-SE	Specific target organ toxicity - single exposure											
16.3.	Key literature references and source of data:	-										
16.4.	Relevant H statements (number and full text)											
	H:	<table> <tr> <td>H302</td> <td>Harmful if swallowed.</td> </tr> <tr> <td>H351</td> <td>Suspected of causing cancer.</td> </tr> <tr> <td>H400</td> <td>Very toxic to aquatic life.</td> </tr> </table>	H302	Harmful if swallowed.	H351	Suspected of causing cancer.	H400	Very toxic to aquatic life.				
H302	Harmful if swallowed.											
H351	Suspected of causing cancer.											
H400	Very toxic to aquatic life.											
16.5.	Training advice:	-										
16.6.	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>										

<b>ANNEX:</b>
<b>EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT</b>
-