

Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 05.07.2021 Revision: 05.07.2021 Version number 7.01 (replaces version 7.00)

SECTION 1: Identification of the substance/mixture and of the company/ undertaking							
· 1.1 Product identifier							
· Trade name: <u>methylene blue</u>							
 Article number: 1170 CAS Number: 61-73-4 EC number: 200-515-2 Application of the substance / the mixture Laboratory chemicals 							
1.3 Details of the supplier of the safety data sheet							
Manufacturer/Supplier: PANREAC QUIMICA S.L.U.Tel. (+34) 937 489 400 Fax. (+34) 937 489 401 Fax. (+34) 937 489 401 e-mail: product.safety@panreac.com E-08211 Castellar del Vallès (Barcelona)							
 Further information obtainable from: email: product.safety@panreac.com 1.4 Emergency telephone number: Single telephone number for emergency calls: 112 (EU) Tel.: (+34) 937 489 499 							
SECTION 2: Hazards identification							
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Acute Tox. 4 H302 Harmful if swallowed. 							
 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. Hazard pictograms 							
GHS07							
 Signal word Warning Hazard statements 							

- H302 Harmful if swallowed.
- Precautionary statements P264
- Wash thoroughly after handling. Do not eat, drink or smoke when using this product. P270

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- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P330 Rinse mouth.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- 2.3 Other hazards
- $^{\cdot}$ Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.1 Substances
- · CAS No. Description
- 61-73-4 methylene blue
- Identification number(s)
- EC number: 200-515-2

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air or oxygen; call for doctor.
- After skin contact: Immediately rinse with water. Immediately remove any clothing soiled by the product. If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing:

make victim drink water (maximum of 2 drinking glasses) Seek medical treatment.

- 4.2 Most important symptoms and effects, both acute and delayed Nausea
- Coughing
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released: Nitrogen oxides (NOx) Carbon monoxide and carbon dioxide Sulphur oxides (SOx) Hydrogen chloride (HCI) Phosgene gas Non-combustible.

- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust.

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Avoid substance contact. Ensure adequate ventilation

- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Avoid formation of dust.

Dispose contaminated material as waste according to item 13.

Clean up affected area.

6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Any unavoidable deposit of dust must be regularly removed. • **Information about fire - and explosion protection:** The product is not flammable.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Open receptacle only under localised extractor facilities.

Store under lock and key and with access restricted to technical experts or their assistants only. Keep container sealed.

- Recommended storage temperature: Room Temperature
- · Storage class: 13
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Vacuum clean contaminated clothing. Do not blow or brush off contamination.

Immediately remove all soiled and contaminated clothing

· Respiratory protection:

Required when dusts are generated. Filter P2

· Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· For the permanent contact gloves made of the	(Contd. of page 3)
Nitrile rubber, NBR	Tonowing materials are suitable.
Recommended thickness of the material: ≥ 0.11 m	ım
Value for the permeation: Level \geq 480 min	
• As protection from splashes gloves made of th	o following materials are suitable:
Nitrile rubber, NBR	e following materials are suitable.
Recommended thickness of the material: \geq 0.11 m	m
Value for the permeation: Level \geq 480 min	
• Eye/face protection Safety glasses	
· Body protection:	
	for the working place, depending on concentration
and quantity of the hazourdous substances handle	
SECTION 9: Physical and chemical pro	perties
9.1 Information on basic physical and chemica	l properties
General Information	
Physical state	Solid
Colour:	Blue
· Odour:	Characteristic
· Odour threshold:	Not determined.
 Melting point/freezing point: 	190 °C
Boiling point or initial boiling point and boiling	
range	Undetermined.
· Flammability	Product is not flammable.
• Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
 Auto-ignition temperature: 	Not determined.
 Decomposition temperature: 	Not determined.
· pH	Not applicable.
· Viscosity:	
 Kinematic viscosity 	Not applicable.
· Dynamic:	Not applicable.
Solubility	
water at 20 °C:	50 g/l
 Partition coefficient n-octanol/water (log value) 	Not determined.
· Vapour pressure:	Not applicable.
 Density and/or relative density 	
Density:	Not determined.
Relative density	Not determined.
· Vapour density	Not applicable.
· 9.2 Other information	
· Appearance:	
· Form:	Powder
· Important information on protection of health	
and environment, and on safety.	
• Explosive properties:	Product does not present an explosion hazard.
• Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard	
classes	
Explosives	Void
· Flammable gases	Void
	Void
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· Oxidising gases	Void	
· Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
[·] Substances and mixtures, which emit		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- light.
- Moisture

To avoid thermal decomposition do not overheat.

- 10.3 Possibility of hazardous reactions
- Exothermic reactions with: strong oxidants
- alkalis
- K2Cr2O7

alkali compounds (iodides)

- **10.4 Conditions to avoid** No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: In the event of fire: See chapter 5

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 · Acute toxicitv Harmful if swallowed. · LD/LC50 values relevant for classification: Quantitative data on the toxicological effect of this product are not available. Value Species · Components Туре Oral LD50 1,180 mg/kg (rat) RTECS • Skin corrosion/irritation Based on available data, the classification criteria are not met. · Serious eye damage/irritation Based on available data, the classification criteria are not met. · After inhalation: No irritant effect. · Respiratory or skin sensitisation Based on available data, the classification criteria are not met. · Germ cell mutagenicity Based on available data, the classification criteria are not met. · Carcinogenicity Based on available data, the classification criteria are not met. • Reproductive toxicity Based on available data, the classification criteria are not met. · STOT-single exposure Based on available data, the classification criteria are not met. · STOT-repeated exposure Based on available data, the classification criteria are not met. · Aspiration hazard Based on available data, the classification criteria are not met. (Contd. on page 6)

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- Other information (about experimental toxicology): After swallowing of large amounts: Irritation in the urinary tract.
- Further hazardous properties cannot be excluded.
- 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- Type of test Effective concentration Method Assessment
- EC50/48 h 2,260 mg/l (daphnia magna)
- LC50/96 h 45 mg/l (fish)
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential May be accumulated in organism
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation:

Disposal must be made according to official regulations. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information		
 14.1 UN number or ID number ADR, ADN, IMDG, IATA 	Void	
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
 14.4 Packing group ADR, IMDG, IATA 	Void	
· 14.5 Environmental hazards:	Not applicable.	
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 14.6 Special precautions for user 	Not applicable.	
• 14.7 Maritime transport in bulk according to IMO instruments Not applicable.		
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- National regulations:
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4 * * Data compared to the previous version altered.