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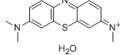


SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier 1.1. Product form Substance name EC No CAS No Type of product Formula Chemical structure

: Substance

- : METHYLENE BLUE FOR MICROSCOPY
- : 200-515-2
- : 122965-43-9
- : Pure substance
- C16H18CIN3S*H2O
- CI-



Synonyms

1.2.

: Phenothiazin-5-ium, 3,7-bis(dimethylamino)-, chloride, hydrate

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses 1.2.1.

Industrial/Professional use spec
Use of the substance/mixture

: For professional use only : Chemical raw material For microscopy Laboratory chemical

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ISOLAB Laborgeräte GmbH Am Dillhof 2 - 63863 Eschau / GERMANY Tel: + 49 93 74 / 978 55-0 Fax: +49 93 74 / 978 55-29 prodsafe@isolab.de

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 30 19240	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Harmful if swallowed.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H302 - Harmful if swallowed
Precautionary statements (CLP)	 P264 - Wash hands, forearms and face thoroughly after handling P270 - Do not eat, drink or smoke when using this product P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
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P501 - Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances		
Name	Product identifier	%
METHYLENE BLUE	(CAS No) 122965-43-9 (EC No) 200-515-2	100

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTIO	N 4: First aid measures	
4.1. I	Description of first aid measures	
First-aid m	easures general	: Call a poison center or a doctor if you feel unwell.
First-aid m	easures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid m	easures after skin contact	: Wash skin with plenty of water.
First-aid m	easures after eye contact	: Rinse eyes with water as a precaution.
First-aid m	easures after ingestion	: Rinse mouth. Call a poison center or a doctor if you feel unwell.
4.2. I	Most important symptoms and effec	ts, both acute and delayed
No addition	nal information available	
4.3. I	Indication of any immediate medical	attention and special treatment needed
Treat symp	ptomatically.	
SECTIO	N 5: Fire-fighting measures	
	Extinguishing media	
Suitable ex	xtinguishing media	: Water spray. Dry powder. Foam.
5.2.	Special hazards arising from the sul	ostance or mixture
Hazardous fire	decomposition products in case of	: Toxic fumes may be released.
5.3.	Advice for firefighters	
Protection	during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTIO	N 6: Accidental release meas	sures
6.1. I	Personal precautions, protective eq	uipment and emergency procedures
6.1.1. I	For non-emergency personnel	
Emergency	y procedures	: Ventilate spillage area.
6.1.2. I	For emergency responders	
-	equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. I	Environmental precautions	
Avoid relea	ase to the environment.	
6.3. I	Methods and material for containme	nt and cleaning up
Methods for	or cleaning up	: Mechanically recover the product.
Other infor	mation	: Dispose of materials or solid residues at an authorized site.
6.4. I	Reference to other sections	
For further	information refer to section 13.	

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SEC1	FION 7: Handling and sto	rage
7.1.	Precautions for safe handling	ng
Precautions for safe handling		: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygien	e measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2.	Conditions for safe storage	, including any incompatibilities
Storage	e conditions	: Store in a well-ventilated place. Keep cool.
7.3.	Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties					
9.1. Information on basic physical and chemical properties					
Physical state	: Solid				
Appearance	: Powder.				
Molecular mass	: 319.86 g/mol				
Colour	: Dark green.				
Odour	: odourless.				
Odour threshold	: No data available				
рН	: No data available				
Relative evaporation rate (butylacetate=1)	: No data available				
Melting point	: 190 °C				
Freezing point	: Not applicable				
Boiling point	: No data available				
Flash point	: Not applicable				
Auto-ignition temperature	: Not applicable				
Decomposition temperature	: No data available				
Flammability (solid, gas)	: Non flammable				
Vapour pressure	: No data available				
Relative vapour density at 20 °C	: No data available				
Relative density	: Not applicable				
Solubility	: Soluble in water. Soluble in ethanol. Soluble in chloroform. Soluble in acetic acid. Soluble in glycerol.				
Log Pow	: No data available				

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Log Kow	: 5.85
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECT	ION 10: Stability and reactivity				
10.1.	Reactivity				
The pro	duct is non-reactive under normal conditions of use, storage and transport.				
10.2.	Chemical stability				
Stable u	under normal conditions.				
10.3.	Possibility of hazardous reactions				
No dan	gerous reactions known under normal conditions of use.				
10.4.	Conditions to avoid				
None u	nder recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.				
10.5.	Incompatible materials				
Strong	Strong acids. Strong bases.				
10.6.	Hazardous decomposition products				
Under r	normal conditions of storage and use, hazardous decomposition products should not be produced.				
SECT	ION 11: Toxicological information				

11.1. Information on toxicological effects		
Acute toxicity	:	Oral: Harmful if swallowed.
Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

Aspiration hazard	: Not classified			
SECTION 12: Ecological information				
12.1. Toxicity				
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.			
12.2. Persistence and degradability				
No additional information available				
12.3. Bioaccumulative potential				
METHYLENE BLUE (122965-43-9)				
Log Kow	5.85			
12.4. Mobility in soil				
No additional information available				
12.5. Results of PBT and vPvB assessmen	t			

METHYLENE BLUE (122965-43-9)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

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METHYLENE BLUE (122965-43-9)

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	ΙΑΤΑ	ADN	RID			
14.1. UN number							
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.2. UN proper shippi	14.2. UN proper shipping name						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.3. Transport hazard	class(es)						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.4. Packing group							
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.5. Environmental ha	izards						
Not applicable Not applicable		Not applicable	Not applicable	Not applicable			
No supplementary information available							

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions METHYLENE BLUE is not on the REACH Candidate List METHYLENE BLUE is not on the REACH Annex XIV List

15.1.2. National regulations

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

Germany

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12th Ordinance Implementing the Federal : Is Immission Control Act - 12.BImSchV

: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
EC50	Median effective concentration	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
PBT	Persistent Bioaccumulative Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE	

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
H302	Harmful if swallowed

SDS ISOLAB

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product