

according to UK REACH Regulation

# Toluidine Blue 0,5 %, methanolic

Revision date: 08.04.2024

Product code: 15149.xxxx

Page 1 of 14

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

# 1.1. Product identifier

Toluidine Blue 0,5 %, methanolic

UFI:

JMXA-N103-X009-QX0E

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Use as laboratory reagent. The product is intended for research, analysis and scientific education.

#### Uses advised against

Any non-intended use.

# 1.3. Details of the supplier of the safety data sheet

Company name:	MORPHISTO GmbH	
Street:	Schumannstr. 142/144	
Place:	D-63069 Offenbach	
Telephone:	+49 (0) 69 / 400 3019-60	Telefax: +49 (0) 69 / 400 3019-64
E-mail:	info@morphisto.de	
Contact person:	Morphisto GmbH	
E-mail:	gefahrstoffmanagement@morphisto.de	
Internet:	http://www.morphisto.de	
1.4. Emergency telephone	Poison Information Center Mainz, Germa	any, Tel: +49(0)6131/19240

#### number:

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### **GB CLP Regulation**

Flam. Lig. 2; H225 Acute Tox. 3: H301 Acute Tox. 3: H311 Acute Tox, 3: H331 STOT SE 1; H370

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

#### **GB CLP Regulation**

#### Hazard components for labelling methanol

Signal word:

**Pictograms:** 

P210

Danger



#### **Hazard statements**

H225 H301+H311+H331 H370

Highly flammable liquid and vapour. Toxic if swallowed, in contact with skin or if inhaled. Causes damage to organs.

#### **Precautionary statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



## according to UK REACH Regulation

	Toluidine Blue 0,5 %, methanolic	
evision date: 08.04.2024	Product code: 15149.xxxxx	Page 2 of 14
P260	Do not breathe mist/vapours/spray.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.	
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
Labelling of packages v	where the contents do not exceed 125 ml	
Signal word:	Danger	
Pictograms:		
Hazard statements H301+H311+H331-H	1370	

Precautionary statements P260-P308+P311

#### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1% or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more have endocrine disrupting properties.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

# **Relevant ingredients**

CAS No	Chemical name	Chemical name		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
67-56-1	methanol			40 - < 45 %
	200-659-6	603-001-00-X	01-2119433307-44	
	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370			

Full text of H and EUH statements: see section 16.

# Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. L	imits, M-factors and ATE	
67-56-1	200-659-6	methanol	40 - < 45 %
		0 = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = : LD50 = 100 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >= 3 -	

## **Further Information**

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures



according to UK REACH Regulation

# Toluidine Blue 0,5 %, methanolic

Revision date: 08.04.2024

Product code: 15149.xxxx

Page 3 of 14

# **General information**

Remove affected person from the danger area and lay down. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove contaminated, saturated clothing immediately.

First aider: Pay attention to self-protection!

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of accident by inhalation: remove casualty to fresh air and keep at rest. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Where appropriate artificial ventilation. Call a physician immediately.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

#### After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

#### 4.2. Most important symptoms and effects, both acute and delayed

refer to section 2 and 11.

4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

#### Unsuitable extinguishing media

High power water jet.

#### 5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air. Concentrated vapours are heavier than air. Reignition possible over considerable distance.

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2).

## 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. In case of fire and/or explosion do not breathe fumes.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Fight fire remotely due to the risk of explosion.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

# General advice

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. (See section 8.)Ventilate affected area. Remove persons to safety. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.



according to UK REACH Regulation

# Toluidine Blue 0,5 %, methanolic

Revision date: 08.04.2024

Product code: 15149.xxxxx

Page 4 of 14

## 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk. Discharge into the environment must be avoided. Prevent spread over a wide area (e.g. by containment or oil barriers). Cover drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

#### 6.3. Methods and material for containment and cleaning up

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### Other information

Clean contaminated objects and areas thoroughly observing environmental regulations.

# 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation as well as local exhaustion at critical locations. Use extractor hood (laboratory).

Avoid exposure - obtain special instructions before use.

Personal protection equipment (See section 8.)

## Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. Flammable vapours can accumulate in head space of closed systems. Heating causes rise in pressure with risk of bursting.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product. Protect skin by using skin protective cream. Take off contaminated clothing and wash it before reuse. Use protective skin cream before handling the product.

#### Further information on handling

Avoid contact with skin, eyes and clothes. General protection and hygiene measures: See section 8.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep/Store only in original container. Ensure adequate ventilation of the storage area.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

#### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances or mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. Ammonium nitrate and preparations containing ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

#### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.



according to UK REACH Regulation

# Toluidine Blue 0,5 %, methanolic

Revision date: 08.04.2024

Product code: 15149.xxxxx

Page 5 of 14

Recommended storage temperature: 15-25 °C Protect against: frost. UV-radiation/sunlight. heat. Humidity

# 7.3. Specific end use(s)

See section 1.

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL

# **DNEL/DMEL** values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
67-56-1	methanol			
Worker DNEL	, acute	inhalation	local	260 mg/m³
Worker DNEL	, acute	dermal	systemic	40 mg/kg bw/day
Worker DNEL	, acute	inhalation	systemic	260 mg/m³
Worker DNEL	, long-term	inhalation	local	260 mg/m³
Worker DNEL	, long-term	dermal	systemic	40 mg/kg bw/day
Worker DNEL	, long-term	inhalation	systemic	260 mg/m³
56-81-5	Glycerol			
Worker DNEL	long-term	inhalation	local	56 mg/m³

PNEC values

CAS No	Substance			
Environmen	Environmental compartment Value			
67-56-1	methanol			
Freshwater		20,8 mg/l		
Marine wate	r	2,08 mg/l		
Marine water (intermittent releases)		1540 mg/l		
Freshwater sediment		77 mg/kg		
Marine sedi	nent	7,7 mg/kg		
Micro-organ	100 mg/l			
Soil		3,18 mg/kg		

## 8.2. Exposure controls





#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation as well as local exhaustion at critical locations.



according to UK REACH Regulation

# Toluidine Blue 0,5 %, methanolic

Revision date: 08.04.2024

Product code: 15149.xxxx

Page 6 of 14

Use extractor hood (laboratory).

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear eye/face protection. Eye glasses with side protection EN 166

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Pull-over gloves of rubber.

Suitable material:

Butyl rubber. (0,5 mm)

(penetration time (maximum wearing period): >= 480 h)

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

#### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing Protective clothing. (flame-retardant)

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

# **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Insufficient ventilation.

exceeding exposure limit values

Suitable respiratory protective equipment: Self-contained respirator (breathing apparatus)

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

The wearing time limitations according to GefStoffV in conjunction with the rules for the use of respiratory protective devices (BGR 190) must be observed.

#### Thermal hazards

Flame-retardant protective clothing. Wear anti-static footwear and clothing .

## **Environmental exposure controls**

Do not allow to enter into surface water or drains.

#### **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	blue	
Odour:	characteristic	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		not determined
boiling range:		
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		18 °C
Auto-ignition temperature:		not determined

according to UK REACH Regulation

Toluidine Blue 0,5 %, methanolic					
Revision date: 08.04.2024	Product code: 15149.xxxxx	Page 7 of 14			
Decomposition temperature:	not determined				
pH-Value:	not determined				
Viscosity / kinematic:	not determined				
Water solubility:	miscible.				
(at 20 °C)					
Solubility in other solvents					
miscible.					
Partition coefficient n-octanol/water:	not determined				
Vapour pressure:	129 hPa				
(at 20 °C)					
Density (at 20 °C):	0,92 g/cm³				
Relative vapour density:	not determined				
Particle characteristics:	not applicable				
9.2. Other information					
Information with regard to physical hazard	classes				
Explosive properties					
• •	insufficient ventilation and/or through use, explosive/highly flammable	e			
mixtures may develop.					
Sustaining combustion:	Sustaining combustion				
Oxidizing properties					
none					
Other safety characteristics					
Evaporation rate:	not determined				
Solid content:	not determined				
Viscosity / dynamic:	not determined				
Flow time:	not determined				
SECTION 10: Stability and reactivity					

# 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

No information available.

#### 10.3. Possibility of hazardous reactions

No information available.

#### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Keep away from heat. Protect from direct sunlight. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

#### 10.5. Incompatible materials

Oxidizing agents. Strong acid, Base.

# 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2).

#### **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.



according to UK REACH Regulation

# Toluidine Blue 0,5 %, methanolic

Revision date: 08.04.2024

Product code: 15149.xxxx

Page 8 of 14

# ATEmix calculated

ATE (oral) 232,9 mg/kg; ATE (dermal) 698,8 mg/kg; ATE (inhalation vapour) 6,990 mg/l; ATE (inhalation dust/mist) 1,165 mg/l

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
67-56-1	methanol					
	oral	LD50 mg/kg	100	Rat	suppliers SDS.	
	dermal	LD50 mg/kg	300	Rabbit	suppliers SDS.	
	inhalation (4 h) vapour	LC50	3 mg/l	Rat	suppliers SDS.	
	inhalation dust/mist	ATE	0,5 mg/l			

#### Irritation and corrosivity

Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

## Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

## STOT-single exposure

Causes damage to organs. (methanol)

## 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.

# 11.2. Information on other hazards

#### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### Other information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

## **SECTION 12: Ecological information**

# 12.1. Toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
67-56-1	methanol						
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l	22000		Pseudokirchneriella subcapitata	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	>1000	48 h	Daphnia magna	ECHA Dossier	OECD 202

#### 12.2. Persistence and degradability

The product has not been tested.



according to UK REACH Regulation

# Toluidine Blue 0,5 %, methanolic

Revision date: 08.04.2024

Product code: 15149.xxxxx

Page 9 of 14

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation		-		
67-56-1	methanol				
	other guideline	96%	20	ECHA Dossier	
	Easily biodegradable (concerning to the criteria of the OECD)				

#### 12.3. Bioaccumulative potential

## The product has not been tested.

#### Partition coefficient n-octanol/water

BCF		
67-56-1	methanol	-0,77
CAS No	Chemical name	Log Pow

CAS No	Chemical name	BCF	Species	Source
67-56-1	methanol	<10		

#### 12.4. Mobility in soil

No information available.

# 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

# List of Wastes Code - residues/unused products

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

#### List of Wastes Code - used product

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

#### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste



according to UK REACH Regulation

# Toluidine Blue 0,5 %, methanolic

Revision date: 08.04.2024

Product code: 15149.xxxx

Page 10 of 14

# Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1230
14.2. UN proper shipping name:	METHANOL
14.3. Transport hazard class(es):	3
14.4. Packing group:	
Hazard label:	3+6.1
Classification code:	FT1
Special Provisions:	279
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	336
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1230
14.2. UN proper shipping name:	METHANOL
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3+6.1
Classification code:	FT1
Special Provisions:	279 802
Limited quantity:	1 L
Excepted quantity:	E2
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1230
14.2. UN proper shipping name:	METHANOL
14.3. Transport hazard class(es):	3
14.4. Packing group:	11
Hazard label:	3+6.1
Special Provisions:	279
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-E, S-D
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	UN 1230
14.2. UN proper shipping name:	METHANOL



## according to UK REACH Regulation

Revision date: 08.04.2024	Toluidine Blue 0,5 %, methanolic Product code: 15149.xxxxx Page 11 c
(evision date: 08.04.2024	Floudel code. 15145.XXXX Fage 110
14.3. Transport hazard class(es):	3
14.4. Packing group:	
Hazard label:	3+6.1
Special Provisions:	A113 1 L
Limited quantity Passenger: Passenger LQ:	Y341
Excepted quantity:	E2
IATA-packing instructions - Passenger:	352
IATA-max. quantity - Passenger:	1L
IATA-packing instructions - Cargo:	364
IATA-max. quantity - Cargo:	60 L
4.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	No
4.6. Special precautions for user	
Warning: Combustible liquid. Acute To>	-
4.7. Maritime transport in bulk according to	MO instruments
not relevant	
SECTION 15: Regulatory information	ations lasislation apositis for the substance or minture
5.1. Safety, health and environmental regul EU regulatory information Restrictions on use (REACH, annex XVII):	ations/legislation specific for the substance or mixture
<b>5.1. Safety, health and environmental regul</b> <b>EU regulatory information</b> Restrictions on use (REACH, annex XVII): Entry 3, Entry 40, Entry 75 Information according to Directive	ations/legislation specific for the substance or mixture H2 ACUTE TOXIC
<b>EU regulatory information</b> Restrictions on use (REACH, annex XVII): Entry 3, Entry 40, Entry 75	
<b>5.1. Safety, health and environmental regul</b> <b>EU regulatory information</b> Restrictions on use (REACH, annex XVII): Entry 3, Entry 40, Entry 75 Information according to Directive 2012/18/EU (SEVESO III):	H2 ACUTE TOXIC
<ul> <li>5.1. Safety, health and environmental regul</li> <li>EU regulatory information         Restrictions on use (REACH, annex XVII):         Entry 3, Entry 40, Entry 75         Information according to Directive         2012/18/EU (SEVESO III):         Additional information:     </li> </ul>	H2 ACUTE TOXIC
<ul> <li>5.1. Safety, health and environmental regul</li> <li>EU regulatory information         Restrictions on use (REACH, annex XVII):         Entry 3, Entry 40, Entry 75         Information according to Directive         2012/18/EU (SEVESO III):         Additional information:     </li> </ul>	H2 ACUTE TOXIC P5c
<ul> <li>5.1. Safety, health and environmental regul</li> <li>EU regulatory information         <ul> <li>Restrictions on use (REACH, annex XVII): Entry 3, Entry 40, Entry 75</li> <li>Information according to Directive</li> <li>2012/18/EU (SEVESO III): Additional information:</li> </ul> </li> <li>Additional information         <ul> <li>The mixture is classified as hazardous</li> </ul> </li> </ul>	H2 ACUTE TOXIC P5c according to regulation (EC) No 1272/2008 [CLP]. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or
<ul> <li><b>5.1. Safety, health and environmental regul</b></li> <li><b>EU regulatory information</b> <ul> <li>Restrictions on use (REACH, annex XVII): Entry 3, Entry 40, Entry 75</li> <li>Information according to Directive</li> <li>2012/18/EU (SEVESO III): Additional information:</li> </ul> </li> <li>Additional information         <ul> <li>The mixture is classified as hazardous</li> <li>National regulatory information</li> <li>Employment restrictions:</li> </ul> </li> </ul>	H2 ACUTE TOXIC P5c according to regulation (EC) No 1272/2008 [CLP]. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
<ul> <li>Isolate to the second structure is the second structure is classified as hazardous information</li> <li>Information according to Directive</li> <li>2012/18/EU (SEVESO III): Additional information:</li> <li>Additional information The mixture is classified as hazardous</li> <li>National regulatory information Employment restrictions:</li> <li>Water hazard class (D):</li> </ul>	H2 ACUTE TOXIC P5c according to regulation (EC) No 1272/2008 [CLP]. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or
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# Changes

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,10,11,12,14,15,16. Rev. 2,0; 30.11.2023; Individual safety data sheet based on 15583\_collect



according to UK REACH Regulation

# Toluidine Blue 0,5 %, methanolic

Revision date: 08.04.2024

Product code: 15149.xxxxx

Page 12 of 14

Rev. 2,1; 08.04.2024; general adjustment(s)



according to UK REACH Regulation

# Toluidine Blue 0,5 %, methanolic

Revision date: 08.04.2024

Product code: 15149.xxxxx

Page 13 of 14

## Abbreviations and acronyms Flam. Liq: Flammable liquids Acute Tox: Acute toxicity STOT SE: Specific target organ toxicity - single exposure ADR: Accord européen sur le transport des marchandises dangereuses par Route CAS Chemical Abstracts Service DNEL: Derived No Effect Level IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) LOAEL: Lowest observed adverse effect level LOAFC: Lowest observed adverse effect concentration LC50: Lethal concentration. 50 percent LD50: Lethal dose, 50 percent NOAEL: No observed adverse effect level NOAEC: No observed adverse effect level NTP: National Toxicology Program N/A: not applicable OSHA: Occupational Safety and Health Administration PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail ) SARA: Superfund Amendments and Reauthorization Act SVHC: substance of very high concern TRGS Technische Regeln fuerGefahrstoffe TSCA: Toxic Substances Control Act VOC: Volatile Organic Compounds VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe WGK: Wassergefaehrdungsklasse CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways



according to UK REACH Regulation

Toluidine	Blue	0,5	%,	methanolic
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Revision date: 08.04.2024

Product code: 15149.xxxx

Page 14 of 14

(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety

assessment, chapter R.20 (Table of terms and abbreviations).

EC/EEC: European Community/European Economic Community

EU: European Union

M-factor: Multiplying factor

IATA: International Air Transport Association

DGR: Dangerous Goods Regulations

ICAO: International Civil Aviation Organization TI: Technical Instructions

VOC: volatile organic compound

# Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Acute Tox. 3; H301	Calculation method
Acute Tox. 3; H311	Calculation method
Acute Tox. 3; H331	Calculation method
STOT SE 1; H370	Calculation method

# Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. Classification according EC regulation 1272/2008 (CLP): - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)