

# Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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

1.1 Product identifier

Trade name/designation Bromophenol blue 0.04% solution

Product No. PRD5423

Substance name Bromophenol blue 0.04% solution

CAS No. 76-59-5

INDEX no.

REACH registration No. Not yet communicated down the supply chain.

other means of identification

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

Relevant identified uses for laboratory use and chemical production.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

: Better Equipped,

Wrenbury Business Park,

Wrenbury Road,

Wrenbury,

Nantwich, Cheshire,

CW5 8EB, UK

Telephone +44 (0) 800 9707142 Fax +44 (0) 800 066 4443

E-mail address sales@betterequipped.co.uk

1.4 Emergency telephone

Telephone +44 (0)1270 781238

- 2. Hazards identification
- 2.1 Classification of the substance or mixture
- 2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]

hazard classes and hazard	Hazard Statements	classification procedure	remark
categories			
Flammable liquid, category 2	H225		

# 2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols:	R-phrases
F	R11

#### 2.2 Label elements

# 2.2.1 Labelling according to Regulation (EC) No. 1272/2008 [CLP]



Signal word Danger

Hazard Statements

H225 Highly flammable liquid and vapour.

Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

# 2.2.2 Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols:

F

R-phrases

_ : .	
R11	Highly flammable.
1 1 1	inginy naminable.

S-phrases

_		
S	S7	Keep container tightly closed.
S	616	Keep away from sources of ignition - No smoking.

#### 2.3 Other hazards

none

## 3. Composition/ Information on ingredients

#### Hazardous ingredients:

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

Substance name	CAS No.	EC No	concentration	hazard classes and hazard categories
Ethanol absolute (SVHC = No)	64-17-5	200-578-6	,	H225 - Flammable liquid, category 2

Substance name	CAS No.	EC No	concentration	Hazard symbols:	R- phrases
Ethanol absolute	64-17-5	200-578-6	>95,00%	F	11

Molecular formula C27H28Br2O5S
Molecular weight (g/mol) 624.39 g/mol
CAS No. 76-59-5
EC No 200-971-2

INDEX no.

#### First-aid measures

#### 4.1 General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

#### 4.2 After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

#### 4.3 In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

#### 4.4 After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 4.5 After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting. Give nothing to eat or drink.

#### 4.6 Self-protection of the first aider

First aider: Pay attention to self-protection!

#### 4.7 Information to physician:

Symptoms No data available Hazards No data available

#### Firefighting measures

#### 5.1 Suitable extinguishing media

Water spray ABC-powder Carbon dioxide (CO2) Nitrogen

5.2 Extinguishing media which must not be used for safety reasons:

no restriction

5.3 Special hazards arising from the substance or mixture

In case of fire may be liberated: Pyrolysis products, toxic

#### 5.4 Advice for firefighters

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

#### 5.5 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

#### 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid generation of dust. Do not breathe dust. Provide adequate ventilation. Use personal protection equipment.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Clean contaminated objects and areas thoroughly observing environmental regulations. Collect in closed and suitable containers for disposal.

6.4 Additional information

Clear spills immediately.

#### 7. Handling and storage

7.1 Precautions for safe handling

Avoid: Inhalation. Avoid contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Protect from moisture.

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

storage temperature 15-25°C

Keep container tightly closed in a cool, well-ventilated place.

## 7.3 Specific end use(s)

No data available

#### 8. Exposure controls / Personal protection

#### 8.1 Control parameters

Ī	Ingredient (Designation)	Limit value type	Limit value	Regulatory information
		(country of		
		origin):		

#### 8.2 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### 8.3 Personal protective equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

## 8.3.1 Eye / face protection

Eye glasses with side protection DIN-/EN-Norms: DIN EN 166

#### 8.3.2 Skin protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms: DIN EN 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.

By short-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material -

Breakthrough time (maximum wearing time) >480 min

Recommended glove articles VWR 112-3717 / 112-1381

By long-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material 0,425 mm

Breakthrough time (maximum wearing time) >480 min

Recommended glove articles VWR 112-0971

#### 8.3.3 Protective clothing

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

#### 8.3.4 Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Suitable respiratory protection apparatus: Full-/half-/quarter-face masks (DIN EN 136/140)

Recommendation VWR 111-0206
Suitable material: A2B2E2K2P3
Recommendation VWR 111-0059

#### 8.4 Additional information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

#### 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

(a) Appearance

Physical state liquid

Colour No data available

(b) Odour No data available (c) Odour threshold No data available

#### Safety relevant basic data

(d) pH No data available
(e) Melting point/freezing point No data available
(f) Initial boiling point and boiling range No data available

(g) Flash point 20°C

(h) Evaporation rate No data available

(i) Flammability (solid, gas) Highly flammable liquid and vapour.

(j) Upper/lower flammability or explosive limits

Lower explosion limit (Vol-%)
Upper explosion limit (Vol-%)
No data available
(k) Vapour pressure
No data available
(l) Vapour density
No data available
(m) Relative density
No data available

(n) Solubility(ies)

Water solubility (g/l) No data available

at °C:

Soluble (g/l) in No data available
(o) Partition coefficient: n-octanol/water No data available
(p) Auto-ignition temperature No data available
(q) Decomposition temperature No data available

(r) Viscosity

Kinematic viscosity
Dynamic viscosity
(s) Explosive properties

(t) Oxidising properties

No data available No data available not applicable not applicable

9.2 Other information

Bulk density refraction index dissociation constant Surface tension Henry constant No data available No data available No data available No data available No data available

- Stability and reactivity
- 10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

10.7 Additional information

No data available

- 11. Toxicological information
- 11.1 Information on toxicological effects

**Acute effects** 

Acute oral toxicity

Effective dose species:

Exposure time

remark source

No data available No data available

Acute dermal toxicity

Effective dose No data available species: No data available

Exposure time

remark source

Acute inhalation toxicity

Effective dose

No data available
species:

No data available

Exposure time

remark source

#### Irritant and corrosive effects

Primary irritation to the skin

Exposure time

species: Result

Irritation to eyes Exposure time

species:

Irritation to respiratory tract

Exposure time

species:

Result

#### Sensitisation

In case of skin contact not sensitising.

After inhalation not sensitising.

## Specific target organ toxicity (single exposure)

not relevant

# Specific target organ toxicity (repeated exposure)

not relevant

# CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

#### Carcinogenicity

No indication of human carcinogenicity.

#### Germ cell mutagenicity/Genotoxicity

No indications of human germ cell mutagenicity exist.

#### Reproductive toxicity

No indications of human reproductive toxicity exist.

#### Aspiration hazard

not relevant

#### 11.2 Other adverse effects

No data available

#### 11.3 Additional information

No data available

#### 12. Ecological information

#### 12.1 Ecotoxicity

#### Acute (short-term) fish toxicity

LC50: No data available

EC50 species: Exposure time

# Chronic (long-term) fish toxicity

LC50: No data available

EC50 species: Exposure time

#### Acute (short-term) daphnia toxicity

LC50: No data available

EC50 species: Exposure time

## Chronic (long-term) daphnia toxicity

LC50: No data available

EC50

species: Exposure time		
Acute (short-term) algae toxicity LC50: EC50 species: Exposure time	No data available	
Chronic (long-term) algae toxicity LC50: EC50 species: Exposure time	No data available	
12.2 Persistence and degradability		
No data available		
12.3 Bioaccumulative potential		
(o) Partition coefficient: n-octanol/wate	er	No data available
12.4 Mobility in soil		
No data available		
12.5 Results of PBT assessment		
No data available		
12.6 Other adverse effects		
No data available		
13. Disposal considerations		
13.1 Waste treatment methods		
Appropriate disposal / Product		
Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.		
Waste code product		No data available
Appropriate disposal / Package		

13.2 Additional information

No data available

#### 14. Transport information

# 14.1 Land transport (ADR/RID)

UN-No. 1170
Proper Shipping Name ETHANOL

Class(es) 3
Classification code: F1
Packing group II
Hazard label(s) 3

## 14.2 Sea transport (IMDG)

UN-No. 1170
Proper Shipping Name ETHANOL

Class(es) 3
Classification code: F1
Packing group II

Marine pollutant Segregation group

## 14.3 Air transport (ICAO-TI / IATA-DGR)

UN-No. 1170

Proper Shipping Name ETHANOL

Class(es) 3
Classification code: F1
Packing group II

#### 14.4 Additional information

No data available

## 15. Regulatory information

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

Water hazard class (WGK) 1

## 15.2 Chemical Safety Assessment

No data available

#### 16. Other information

16.1 Relevant R-, H- and EUH-phrases (Number and full text)

R11	Highly flammable.	
H225	Highly flammable liquid and vapour.	

#### 16.2 Additional information

Indication of changes

general update

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.