



# **Material Safety Data Sheets**

# 1. IDENTIFICATION

Product Name Bromophenol Blue

**Other Names** 3,3',5,5'-Tetrabromophenolsulfonphthalein, BPB

Uses used as a pH indicator, an electrophoretic color marker, and a dye

Chemical Family
Chemical Formula
C19H10Br4O5S
Chemical Name
No Data Available
Product Description
No Data Available
Company
Arman sina.co

Contact Information <u>info@armansina.com</u>

www.armansina.com

## 2. HAZARD IDENTIFICATION

Hazard Categories Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Signal Word No Data Available

**Hazard Statements** 

Precautionary Statements No Data Available

Symbol

**Supplementary information:** Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Bromophenol Blue	C19H10Br4O5S	115-39-9	<= 100 %

## 4. FIRST AID MEASURES

Swallowed After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Eye After eye contact: rinse out with plenty of water. Remove contact lenses.

Skin In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower.

Inhaled After inhalation: fresh air..

Advice to Doctor Consult a doctor in case of discomfort showing the SDS for the product.

## 5. FIRE FIGHTING MEASURES

General Measures Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water

or the ground water system.

Flammability Conditions No Data Available

Extinguishing Media Water Foam Carbon dioxide (CO2) Dry powder

Fire and Explosion Hazard No Data Available

Hazardous Products of Carbon oxides; Sulfur oxides ; Hydrogen bromide gas Combustible.

**Combustion** Development of hazardous combustion gases or vapours possible in the event of fire.

Special Fire Fighting Instructions In the event of fire, wear self-contained breathing apparatus.

Personal Protective Equipment No Data Available

#### 6. ACCIDENTAL RELEASE MEASURES

**General Response Procedure** 

No Data Available

Clean Up Procedures

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose

of properly. Clean up affected area. Avoid generation of dusts.

No Data Available Containment

Decontamination No Data Available

**Environmental Precautionary** 

Measures

Do not let product enter drains.

No Data Available **Evacuation Criteria** 

Personal Precautionary Measures.

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an

expert. For personal protection see section 8.

#### 7. HANDLING AND STORAGE

No Data Available Handling

Tightly closed, Dry., Storage

Container Keep containers tightly closed

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

No Data Available General No Data Available **Exposure Limits** No Data Available **Biological Limits** 

Change contaminated clothing. Wash hands after working with substance. **Engineering Measures** 

### Personal Protection Equipment

# Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de). Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: KCL 741 Dermatril® L

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government

standards such as NIOSH (US) or CEN (EU).

**Special Hazards Precaustions** No Data Available

**Work Hygienic Practices** 

No Data Available

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Solid Solid **Appearance** 

Odour characteristic

Colour red to Pale orange solid No Data Available рΗ No Data Available Vapour Pressure No Data Available **Relative Vapour Density Boiling Point** No Data Available **Melting Point** 273 °C (523 °F) - lit. No Data Available **Freezing Point** Solubility No Data Available **Specific Gravity** No Data Available

**Auto Ignition Temp** No information available.

No Data Available

**Evaporation Rate** No Data Available No Data Available **Bulk Density Corrosion Rate** No Data Available **Decomposition Temperature** No Data Available No Data Available Density **Specific Heat** No Data Available **Molecular Weight** 669.98 g/mol **Net Propellant Weight** No Data Available **Octanol Water Coefficient** No Data Available **Particle Size** No Data Available No Data Available **Partition Coefficient** Saturated Vapour Concentration No Data Available No Data Available **Vapour Temperature** No Data Available

**Additional Characteristics** No information available. **Potential for Dust Explosion** No Data Available

**Fast or Intensely Burning** 

No information available.

No Data Available

No Data Available

Characteristics

Viscosity Volatile Percent

**VOC Volume** 

**Flash Point** 

Flame Propagation or Burning **Rate of Solid Materials** 

No information available.

**Non-Flammables That Could** No information available.

Contribute Unusual Hazards to a

Properties That May Initiate or

Contribute to Fire Intensity

No information available.

Reactions That Release Gases or No information available. **Vapours** 

Release of Invisible Flammable No information available. **Vapours and Gases** No information available.

# 10. STABILITY AND REACTIVITY

General Information The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a

dust explosion potential may generally

be assumed

Chemical Stability The product is chemically stable under standard ambient conditions (room temperature) .

Conditions to Avoid Heat.

Materials to Avoid Violent reactions possible with: Strong oxidizing agents

**Hazardous Decomposition** 

**Products** 

No data available

**Hazardous Polymerisation** 

No data available

## 11. TOXICOLOGICAL INFORMATION

General Information No data available

Acute Acute toxicity

Oral: No data available Inhalation: No data available Dermal: No data available Skin corrosion/irritation No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available Germ cell mutagenicity No data available Carcinogenicity No data available Reproductive toxicity No data available

# 12. ECOLOGICAL INFORMATION

Ecotoxicity No data available

Persistence/Degradability

No data available

MobilityNo Data AvailableEnvironmental FateNo Data AvailableBioaccumulation PotentialNo Data AvailableEnvironmental ImpactNo Data Available

#### 13. DISPOSAL CONSIDERATIONS

**General Information** 

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

Special Precautions for Land Fill No Data Available

#### 14. TRANSPORT INFORMATION

# **Land Transport**

**Proper Shipping Name** Bromophenol Blue Class No Data Available Subsidiary Risk(s) No Data Available **EPG** No Data Available **UN Number** No Data Available No Data Available Hazchem **Pack Group** No Data Available **Special Provision** No Data Available

# Sea Transport

Proper Shipping Name
Class
No Data Available
Subsidiary Risk(s)
No Data Available
No Data Available
No Data Available
Hazchem
No Data Available
Pack Group
No Data Available
Special Provision
No Data Available
No Data Available
No Data Available

Marine Pollutant No Data Available

# **Air Transport**

Proper Shipping Name
Class
No Data Available
Subsidiary Risk(s)
No Data Available
UN Number
No Data Available
Hazchem
No Data Available
Pack Group
No Data Available
Special Provision
No Data Available

#### 15. OTHER INFORMATION

Revision 3

Key/Legend

< Less Than

> Greater Than

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm<sup>2</sup> Square Centimetres

CO2 Carbon Dioxide

**COD Chemical Oxygen Demand** 

deg C (° C) Degrees Celcius

deg F (° F) Degrees Farenheit

g Grams

g/cm³ Grams per Cubic Centimetre

g/I Grams per Litre

**HSNO Hazardous Substance and New Organism** 

**IDLH Immediately Dangerous to Life and Health** 

immiscible Liquids are insoluable in each other.

inHg Inch of Mercury

inH2O Inch of Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

**Ib Pound** 

LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50%

(one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH2O Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

**NOHSC National Occupational Heath and Safety Commission** 

**OECD Organisation for Economic Co-operation and Development** 

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

**RCP Reciprocal Calculation Procedure** 

STEL Short Term Exposure Limit

**TLV Threshold Limit Value** 

tne Tonne

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours

**UN United Nations** 

wt Weight