

SAFETY DATA SHEET

Bromophenol Blue

Version 3 · issued 9 October 2026

1. IDENTIFICATION**Product Identifiers**

Product Name	Bromophenol Blue
Other Names	Tetrabromophenol-sulfonphthalein, Tetrabromophenoltetrabromosulfoneneftphthalein, BPB
Product Number(s)	C087, C0871, C0875
CAS Number	115-39-9

Recommended use of the chemical and restriction on use

Laboratory use. Indicator dye, used to indicate pH changes. It is also used as a tracking dye in gel electrophoresis

Company Details

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2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

Not a hazardous substance.

Label Elements

Signal Words	None
Hazard Statement(s)	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Precautionary Statement(s)	Not available.

Primary route(s) of entry

Inhalation — breathing in dust from the powder.
Skin or eye contact — contact during handling.
Ingestion — accidental swallowing.

Human Health

Inhalation	May cause respiratory tract irritation. Low hazard for usual industrial handling.
Ingestion	May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Low hazard for usual industrial handling.
Eyes	May cause eye irritation.
Skin	May cause skin irritation.

Environment

No further relevant information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Content (w/w)	Classification
Bromophenol Blue	115-39-9	99%	Not a hazardous substance.

4. FIRST AID MEASURES

Ingestion	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.
Inhalation	After inhalation: fresh air

Skin Contact	If contact, flush skin with plenty of soap & water.
Eye Contact	Flush eyes with plenty of water as a precaution. Remove contact lenses.
Other Information	Notes to Physician: Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES

Suitable extinguishing equipment

Fire Water Foam Carbon dioxide (CO2) Dry powder

Large Fire Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.
Special hazards; Carbon, Sulphur oxides. Hydrogen bromide gas,

HAZCHEM Not available.

Special protective equipment and precautions for fire fighters

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved or equivalent, and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures 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.

Environmental precautions Do not let product enter drains.

Methods and materials for containment and clean up 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.

7. HANDLING AND STORAGE

Precautions for safe handling Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Conditions for safe storage Storage conditions
Tightly closed. Dry.
Recommended storage temperature see product label.
Storage class
Storage class (TRGS 510): 11: Combustible Solids

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

Material	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³
Bromophenol Blue	-	-	-	-

Engineering controls Change contaminated clothing. Wash hands after working with substance.

Personal protective equipment

Eye and 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 Dermatrill® L

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Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatrill® L

Body protection

Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance	pink to red brown powder
Odour	phenol-like
pH	Not available.
Vapour Pressure	Not available.
Density	Not available.
Boiling Point	Not available.
Melting Point	273°C - lit
Solubility	at 20 °C practically insoluble
Specific Gravity of Density	Not available.
Flash Point	Not available.
Flammable (Explosive) Limits	Not available.
Ignition Temperature	Not available.
Formula	C ₁₉ H ₁₀ Br ₄ O ₅ S

10. STABILITY AND REACTIVITY

Reactivity	No further relevant information available.
Chemical stability	Stable at room temperature in closed containers under normal storage and handling conditions.
Possibility of hazardous reactions	No further relevant information available.
Conditions to avoid	No further relevant information available.
Incompatible materials	Strong oxidising agents, strong reducing agents, strong acid, strong bases.

11. TOXICOLOGICAL INFORMATION

Acute effects	Oral: No data available Inhalation: No data available Dermal: No data available
Eye contact	No further relevant information available.
Skin contact	No further relevant information available.
Ingestion	No further relevant information available.
Inhalation	No further relevant information available.

Toxicity and irritation Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Other adverse effects	No further relevant information 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.

14. TRANSPORT INFORMATION

ADG label required	
HAZCHEM	Not available.
UN Number	None.
Proper shipping name	Not regulated.
Transport hazard class	0
Packing group	None.
Environmental hazard	No information available.
Special precautions for users	Not regulated.
Additional information	Not regulated.

15. REGULATORY INFORMATION

Poisons Schedule Number	No information available.
Other Information	No further relevant information available.

16. OTHER INFORMATION

SDS preparation date	9 October 2026
Comments	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.
References	Suolco SDS "Bromophenol blue indicator" 28/06/2023 https://www.sigmaldrich.com/AU/en/sds/mm/1.08122?userType=anonymous

This Safety Data Sheet (SDS) has been prepared in compliance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice February 2016. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this SDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

... End of SDS ...