



ISO 9001 Quality System Certified Organization

MANUFACTURER & EXPORTER OF LABORATORY CHEMICALS AND OILS

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MATERIAL SAFETY DATA SHEET (MSDS)

SDS/MSDS

MATERIAL SAFETY DATA SHEET

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1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND UNDERTAKING

1.1. Product identifier

Product Description: **Bromophenol Blue AR**

Synonyms 3',3'',5',5''-Tetrabromophenolsulfonephthalein; BPB;

Tetrabromophenoltetrabromosulfonephthalein

CAS No 115-39-9

EC No 204-086-2

Molecular Formula C₁₉ H₁₀ Br₄ O₅ S

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended Use Laboratory chemicals. Uses advised against No Information available

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Company

Thermo Fisher Scientific India Pvt. Ltd

403-404, B-wing, Delphi, Hiranandani Business Park, Powai, Mumbai 4000076, INDIA

CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Health hazards

Based on available data, the classification criteria are not met

Environmental hazards

Based on available data, the classification criteria are not met

Physical hazards

Based on available data, the classification criteria are not met

2.2. Label elements

None required

2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances
Component CAS No EC No Weight % CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567
Bromophenol blue 115-39-9 EEC No. 204-086-2 >95 - Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

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Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Get medical attention.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur. Self-Protection of the First Aider No special precautions required. 4.2. Most important symptoms and effects, both acute and delayed

No information available. 4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

CO₂, dry chemical, dry sand, alcohol-resistant foam. Extinguishing media which must not be used for safety reasons

No information available. 5.2. Special hazards arising from the substance or mixture

Dust can form an explosive mixture with air. Thermal decomposition can lead to release of irritating gases and vapors. Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO₂), Hydrogen bromide. 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation. Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and Page 3/ 10 Keep containers tightly closed in a dry, cool and well-ventilated place.

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Storage Class (LGK) (Germany)

Class 11

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION 8.1. Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available. 8.2. Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eye wash stations and safety showers are close to the workstation location. Personal protective equipment

Eye Protection Wear safety glasses with side shields (or goggles) (European standard - EN166)

Hand Protection Protective gloves

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure. Inspect gloves before use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Glove material Breakthrough time Glove thickness EU standard Glove comments Nitrile rubber

Neoprene

Natural rubber

PVC

See manufacturers

recommendations

- EN 374 (minimum requirement)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination. Respiratory Protection No protective equipment is needed under normal use conditions. Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Recommended Filter type: Particle filter

Small scale/Laboratory use Maintain adequate ventilation

Environmental exposure controls No information available.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES 9.1. Information on basic physical and chemical properties

Component log Pow

Bromphenol blue 6.77

Particle characteristics No data available

9.2. Other information

Molecular Formula C₁₉ H₁₀ Br₄ O₅ S

Molecular Weight 669.96

Evaporation Rate Not applicable - Solid

SECTION 10: STABILITY AND REACTIVITY

Physical State Solid

Appearance Reddish violet

Odor Odorless

Odor Threshold No data available

Melting Point/Range 279 °C / 534.2 °F

Softening Point No data available

Boiling Point/Range No information available

Flammability (liquid) Not applicable Solid

Flammability (solid,gas) No information available

Explosion Limits No data available

Flash Point No information available Method - No information available

Autoignition Temperature No data available

Decomposition Temperature 279 °C

pH No information available

Viscosity Not applicable Solid

Water Solubility 0.4 g/100ml

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Vapor Pressure negligible

Density / Specific Gravity No data available

Bulk Density No data available

Vapor Density Not applicable

10.2. Chemical stability

Stable under normal conditions. 10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur. Hazardous Reactions None under normal processing. 10.4. Conditions to avoid

Incompatible products. Excess heat. Avoid dust formation. 10.5. Incompatible materials

Strong oxidizing agents. Strong reducing agents. Strong acids. Strong bases. 10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen bromide.

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SECTION 11: TOXICOLOGICAL INFORMATION 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information No acute toxicity information is available for this product

(a) acute toxicity;

Oral No data available

Dermal No data available

Inhalation No data available

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available

Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

Symptoms / effects, both acute and delayed

No information available. 11.2. Information on other hazards

Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects Do not empty into drains. 12.2. Persistence and degradability

Persistence May persist, based on information available. 12.3. Bioaccumulative potential May have some potential to bioaccumulate

Component log Pow Bioconcentration factor (BCF)

Bromphenol blue 6.77 No data available 12.4. Mobility in soil practically insoluble. Is not likely mobile in the environment due its low water solubility and propensity to bind to soil particles

12.5. Results of PBT and vPvB assessment

No data available for assessment. 12.6. Endocrine disrupting properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

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Persistent Organic Pollutant This product does not contain any known or suspected substance
Ozone Depletion Potential This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused

Products

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

Contaminated Packaging Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers. European Waste Catalogue (EWC) According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Other Information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

ADR Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

IATA Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards No hazards identified

14.6. Special precautions for user No special precautions required. 14.7. Maritime transport in bulk according to IMO instruments

Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

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

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Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia(AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component CAS No EINECS ELINCS NLP IECSC TCSI KECL ENCSISHLBromphenol blue 115-39-9 204-086-2 - - X X KE-02746 XXComponent CAS No TSCA TSCA Inventory notification -

Active-Inactive

DSL NDSL AICS NZIoCPICCSBromphenol blue 115-39-9 X ACTIVE X - X

Legend: X - Listed '-' - Not Listed KECL - NIER number or KE number

(<http://ncis.nier.go.kr/en/main.do>)

Authorisation/Restrictions according to EU REACH Not applicable

Component CAS No REACH (1907/2006) -

Annex XIV - Substances

Subject to Authorization

REACH (1907/2006) -

Annex XVII - Restrictions

on Certain Dangerous

Substances

REACH Regulation (EC1907/2006) article 59 -Candidate List of

Substances of Very HighConcern (SVHC)

Bromphenol blue 115-39-9 - - - Seveso III Directive (2012/18/EC)

Component CAS No Seveso III Directive (2012/18/EC) -

Qualifying Quantities for Major Accident

Notification

Seveso III Directive (2012/18/EC) -Qualifying Quantities for Safety ReportRequirements

Bromphenol blue 115-39-9 Not applicable Not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012

concerning the export andimport of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agentsatwork .

National Regulations

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005

Amendment

WGK Classification Water endangering class = 3 (self classification)

Component Switzerland - Ordinance on the

Reduction of Risk from

handling of hazardous

substances preparation (SR

814.81)



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Switzerland - Ordinance on
Incentive Taxes on Volatile
Organic Compounds (OVOC)
Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent
Procedure Bromphenol blue
115-39-9 (>95)
Prohibited and Restricted
Substances
15.2. Chemical safety assessment
A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: OTHER INFORMATION

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for that material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

CAS - Chemical Abstracts Service TSCA - United States Toxic Substances Control Act Section 8(b)

Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances ENCS - Japanese Existing and New Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit TWA - Time Weighted Average

ACGIH - American Conference of Governmental Industrial Hygienists IARC - International Agency for Research on Cancer

DNEL - Derived No Effect Level Predicted No Effect Concentration (PNEC)

RPE - Respiratory Protective Equipment LD50 - Lethal Dose 50%

LC50 - Lethal Concentration 50% EC50 - Effective Concentration 50%

NOEC - No Observed Effect Concentration POW - Partition coefficient Octanol:Water

PBT - Persistent, Bioaccumulative, Toxic vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

ICAO/IATA - International Civil Aviation Organization/International Air

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Transport Association

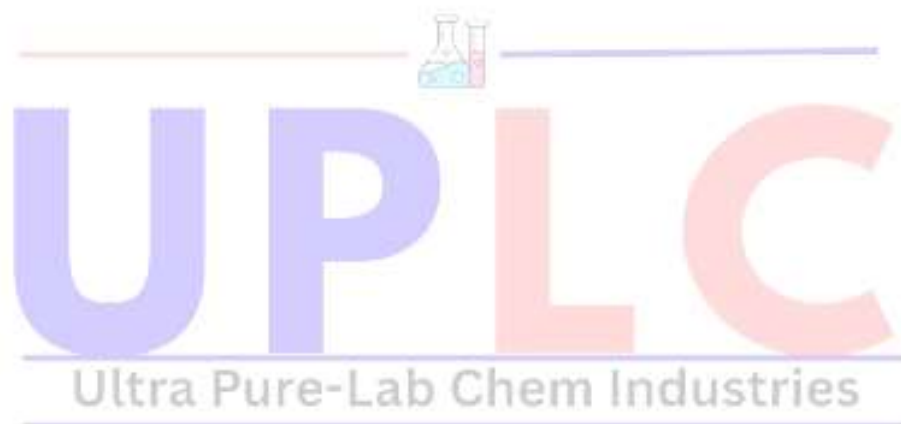
IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code

MARPOL - International Convention for the Prevention of Pollution from Ships

OECD - Organisation for Economic Co-operation and Development ATE - Acute Toxicity Estimate

BCF - Bioconcentration factor



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