

# SAFETY DATA SHEET

**Issue Date** 21-10-2019

Revision Date 08-Feb-2023

Version 3.6

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#### **1. IDENTIFICATION**

<u>Product identifier</u> Product Name	Bromphenol Blue Indicator Powder
Other means of identification Product Code(s)	1455099
Safety data sheet number	M00073

Recommended use of the chemical and restrictions on useRecommended UseLaboratory reagent. Indicator for pH.Uses advised againstNone.Restrictions on useNone.

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

#### Manufacturer Address Hach Company, P.O.Box 389, Loveland, CO 80539, USA, +1(970) 669-3050

#### Emergency telephone number

+1(303) 623-5716 - 24 Hour Service

#### 2. HAZARDS IDENTIFICATION

#### Classification

#### **Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Hazards not otherwise classified (HNOC) Not applicable

#### Label elements

Signal word None

#### Hazard statements

The product contains no substances which at their given concentration, are considered to be hazardous to health

#### Other Hazards Known

May be harmful if swallowed

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

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#### Substance Not applicable

#### <u>Mixture</u>

#### Percent ranges are used where confidential product information is applicable.

Chem	Chemical name		Percent Range	HMRIC #
Phenol, 4,4-(1,1-dioxido-3H-2,1-be	nzoxathiol-3-ylidene)bis[2,6-dibromo-	115-39-9	<1%	-
	4. FIRST AID MEASURI	ES		
Description of first aid measures				
General advice	No hazards which require special first a nature of the injury.	No hazards which require special first aid measures. Use first aid treatment according to the nature of the injury.		
Inhalation	Remove to fresh air.			
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.			
Skin contact	Wash skin with soap and water.			
Ingestion	Clean mouth with water and drink afterv	vards plenty of water.		
Most important symptoms and effe	cts, both acute and delayed			
Symptoms	See Section 11 for additional Toxicological Information.			
Indication of any immediate medica	al attention and special treatment need	ed		
Note to physicians	Treat symptomatically.			
	5. FIRE-FIGHTING MEASU	JRES		
Suitable Extinguishing Media	Use extinguishing measures that are ap surrounding environment.	propriate to local circumst	tances and th	e
Unsuitable Extinguishing Media	Caution: Use of water spray when fighting fire may be inefficient.			
Specific hazards arising from the chemical	No information available.			
Hazardous combustion products	No information available.			
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear Use personal protection equipment.		turnout gear.	

# 6. ACCIDENTAL RELEASE MEASURES

U.S. Notice	Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside
	of the US, only persons properly qualified according to state or local regulations should

respond to a spill involving chemicals.

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

Personal precautions	Ensure adequate ventilation.	
Environmental precautions		
Environmental precautions	See Section 12 for additional ecological information.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labeled containers.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	
Reference to other sections	See section 8 for more information. See section 13 for more information.	

# 7. HANDLING AND STORAGE

# Precautions for safe handling Handle in accordance with good industrial hygiene and safety practice. Conditions for safe storage, including any incompatibilities Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Flammability class Not applicable

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters	
Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies
Appropriate engineering controls Engineering Controls	Showers Eyewash stations Ventilation systems. Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Individual protection measures, such	ch as personal protective equipment
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Ensure adequate ventilation.
Hand Protection	Wear suitable gloves. Barrier creams may help to protect the exposed areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1:2016.

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Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	No special protective equipment required. Avoid contact with eyes, skin and clothing.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.
Thermal hazards	None under normal processing.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance Odor	powder Odorless	Solid		Color Odor threshold	Dark red to orange No data available
Property_			<u>Values</u>		Remarks • Method
Molecular weight	:		No data availal	ble	
рН			3.7		10% Solution
Melting point / fro	ezing point		279 °C / 53	4.2 °F	
Initial boiling poi	nt and boiling rang	e	No data availal	ble	
Evaporation rate			Not applicable		
Vapor pressure			Not applicable		
Relative vapor de	ensity		No data availa	ble	
Specific Gravity			1.98		
Partition coefficie	ent		log K <sub>ow</sub> ~ 0		
Soil Organic Carl	oon-Water Partition	ו	log K₀c ~ 0		
Autoignition tem	perature		No data availal	ble	
Decomposition to	emperature		278.9 °C / 53	34 °F	
Dynamic viscosi	зу.		Not applicable		
Kinematic viscos	ity		Not applicable		
• • • • • • • •					

# Solubility(ies)

#### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

#### Solubility in other solvents

Chemical Name	Solubility classification	Solubility_	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F
Ethyl alcohol	Slightly soluble	> 0.1 mg/L	25 °C / 77 °F

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#### **Other information**

#### **Metal Corrosivity**

#### Steel Corrosion Rate Aluminum Corrosion Rate

No data available No data available

#### Volatile Organic Compounds (VOC) Content Not applicable

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Phenol,	115-39-9	No data available	-
4,4-(1,1-dioxido-3H-2,1-benzoxathiol-3			
-ylidene)bis[2,6-dibromo-			

#### **Explosive properties**

Upper explosion limit Lower explosion limit	No data available No data available
Flammable properties	
Flash point	Not applicable
Flammability Limit in Air	
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Oxidizing properties	No data available.
Bulk density	No data available

# **10. STABILITY AND REACTIVITY**

#### Reactivity Not applicable.

# Chemical stability

Stable under normal conditions.

#### Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Possibility of hazardous reactions

None under normal processing.

# Hazardous polymerization

None under normal processing.

#### Conditions to avoid

None known based on information supplied.

#### Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

#### Hazardous decomposition products

None known based on information supplied.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

#### **Product Information**

Inhalation	No known effect based on information supplied.
Eye contact	No known effect based on information supplied.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Symptoms	No information available.

#### Acute toxicity

Based on available data, the classification criteria are not met

Mixture No data available.

#### **Ingredient Acute Toxicity Data** No data available.

#### **Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

#### Acute Toxicity Estimations (ATE)

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	2,613.00 mg/kg
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

#### Skin corrosion/irritation

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

#### Mixture

No data available.

#### Ingredient Skin Corrosion/Irritation Data

No data available.

#### Serious eye damage/irritation

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

#### Mixture

No data available.

# Ingredient Eye Damage/Eye Irritation Data

No data available.

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#### Respiratory or skin sensitization

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

#### Mixture

No data available.

#### **Ingredient Sensitization Data**

No data available.

#### STOT - single exposure

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

#### Mixture

No data available.

Ingredient Specific Target Organ Toxicity Single Exposure Data No data available.

#### **STOT - repeated exposure**

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

#### **Mixture**

No data available.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data No data available.

#### Carcinogenicity

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

#### Mixture

No data available.

#### Ingredient Carcinogenicity Data

No data available.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Phenol, 4,4-(1,1-dioxido-3H-2,1-be nzoxathiol-3-ylidene)bis[2, 6-dibromo-		-	-	-	-

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA	Does not apply

#### Germ cell mutagenicity

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

**Mixture** invitro **Data** No data available.

# **Substance** invitro **Data** No data available.

Mixture invivo Data No data available.

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Substance invivo Data No data available.

#### Reproductive toxicity

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

#### Mixture

No data available.

**Ingredient Reproductive Toxicity Data** No data available.

#### Aspiration hazard

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

#### **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

Unknown aquatic toxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

#### <u>Mixture</u>

Aquatic Acute Toxicity No data available.

Aquatic Chronic Toxicity No data available.

#### **Substance**

Aquatic Acute Toxicity No data available.

Aquatic Chronic Toxicity No data available.

#### Persistence and degradability

#### Mixture

No data available.

Bioaccumulation MATERIAL DOES NOT BIOACCUMULATE **Mixture** No data available.

#### Partition coefficient

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient

# Other adverse effects

No information available

#### **13. DISPOSAL CONSIDERATIONS**

log Kow ~ 0

log Koc ~ 0

#### Waste treatment methods

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Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.		
Contaminated packaging	Do not reuse empty containers.		
Special instructions for disposal	Dilute material with excess water making a weaker than 5% solution. Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. If permitted by regulation. Open cold water tap completely, slowly pour the reacted material to the drain. Check with local municipal and state authorities and waste contractors for pertinent local information regarding the proper disposal of chemicals.		

#### **14. TRANSPORT INFORMATION**

DOT Proper shipping name	Not regulated
TDG	Not regulated
Proper shipping name	Not regulated
IATA	Not regulated
Proper shipping name	Not regulated
IMDG	Not regulated
Proper shipping name	Not regulated
Note:	No special precautions necessary.

#### Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

### **15. REGULATORY INFORMATION**

National Inventories	
TSCA	Complies
DSL/NDSL	Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCSCompliesENCSCompliesIECSCCompliesKECL - Existing substancesCompliesPICCSCompliesTCSIComplies
IECSCCompliesKECL - Existing substancesCompliesPICCSCompliesTCSIComplies
KECL - Existing substancesCompliesPICCSCompliesTCSIComplies
PICCS Complies TCSI Complies
TCSI Complies
AICS Complies
NZIOC Complies

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**TCSI** - Taiwan Chemical Substances Inventory **AICS** - Australian Inventory of Chemical Substances **NZIOC** - New Zealand Inventory of Chemicals

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

#### U.S. EPA Label Information

#### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

# Special Comments

#### Additional information

# Global Automotive Declarable Substance List (GADSL)

Not applicable NFPA and HMIS Classifications

NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - 1	Flammability - 0	Physical hazards - 0	Personal protection -
				- I

#### Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH	ACGIH (American Conference of Governmental Industrial Hygienists)
ATSDR	ATSDR (Agency for Toxic Substances and Disease Registry)
CCRIS	CCRIS (Chemical Carcinogenesis Research Information System)

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CDC CEPA CICAD ECHA EEA EPA ERMA ECOSARS FDA GESTIS HSDB INERIS IPCS INCHEM IUCLID NITE NIH NIOSH LOLI NDF NICNAS NIOSH IDLH OSHA PEEN RTECS SIDS SYKE USDA USDC WHO		CDC (Center for Disease Control) CEPA (Canadian Environmental Protection Agency) CICAD (Concise International Chemical Assessment Documents) ECHA (The European Chemicals Agency) EEA (European Environment Agency) EPA (Environmental Protection Agency) ERMA (New Zealands Environmental Risk Management Authority) Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite <sup>T</sup> FDA (Food & Drug Administration) GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance) HSDB (Hazardous Substances Data Bank) INERIS (The National Industrial Environment and Risks Institute) IPCS INCHEM (International Programme on Chemical Safety) IUCLID (The International Uniform Chemical Information Database) Japan National Institute of Technology and Evaluation (NITE) NIH (National Institute of Technology and Evaluation (NITE) NIH (National Institute of Occupational Safety and Health) LOLI (List of Lists - An International Chemical Regulatory Database) no data Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) Immediately Dangerous to Life or Health OSHA (Occupational Safety and Health Administration of the US Department of Labor) PEEN (Pan European Ecological Network) RTECS (Registry of Toxic Effects of Chemical Substances) SIDS (Screening Information Dataset) for High Volume Chemicals The Finnish Environment Institute (SYKE) USDA (United States Department of Agriculture) USDC (United States Department of Commerce) WHO (World Health Organization)		
Legend - Section	n 8: EXPOSURE Co	ONTROLS/PERSONAL P	ROTECTION	
TWA	TWA (time-weight	ed average)	STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowat	ble Concentration	Ceiling	Ceiling Limit Value
X	Listed		Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.
SKN* RSP+ C M	Skin designation Respiratory sensit Carcinogen mutagen	tization	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant
Prepared By		Hach Product Compliand	ce Department	
Issue Date		21-10-2019		
Revision Date		08-Feb-2023		
<b>Revision Note</b>		None		
Disclaimor				

**Disclaimer** 

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

# THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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End of Safety Data Sheet