>90%

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 08, 2018

Revision: October 08, 2018

Product	entifier	
	e: Bromothymol Blue Indicator Solution de: BB5025SS	
Recomme	ded use and restriction on use ded use: Laboratory chemicals s on use: No relevant information available.	
Manufacto AquaPhoe 860 Gitts F Hanover, F Phone: (71 Toll-Free:	17331	
ChemTel I (800)255-3	telephone number: c. 24 (North America) -0585 (International)	
Hazard(identification	

The product is not classified as hazardous according to OSHA GHS regulations within the United States. • **GHS label elements** This product does not have a classification according to the GHS regulation.

- · Hazard pictograms: None.
- Signal word: None
- · Hazard statements: None.
- · Precautionary statements: None.

· Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

7732-18-5 Water

34722-90-2 Sodium α-(3-bromo-5-isopropyl-4-oxo-2-methyl-2,5-cyclohexadienylidene)-2-(3- 5-10% bromo-4-hydroxy-5-isopropyl-2-methylphenyl)toluenesulphonate

Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures	
	(Cont'd. on page 2)

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 08, 2018

Revision: October 08, 2018

Trade name: Bromothymol Blue Indicator Solution (Cont'd. of page 1) Description of first aid measures · General information: No special measures required. · After inhalation: Supply fresh air; consult doctor in case of complaints. · After skin contact: Wash with soap and water. If skin irritation is experienced, consult a doctor. · After eve contact: Protect unharmed eve. Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. Most important symptoms and effects, both acute and delayed: Gastric or intestinal disorders when ingested. Nausea in case of indestion. · Danger: No relevant information available. · Indication of any immediate medical attention and special treatment needed: If medical advice is needed, have product container or label at hand. 5 Fire-fighting measures • Extinguishing media

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No relevant information available.
- · Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation.

• Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

[•] Methods and material for containment and cleaning up

Dispose of the collected material according to regulations.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

(Cont'd. on page 3)

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 08, 2018

Revision: October 08, 2018

Trade name: Bromothymol Blue Indicator Solution

(Cont'd. of page 2)

7 Handling and storage

· Handling

· Precautions for safe handling:

Prevent formation of aerosols.

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

· Information about protection against explosions and fires: No special measures required.

[•] Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Due to photo-sensitivity, store product in brown-glass receptacles.

- Store in cool, dry conditions in well sealed receptacles.
- Information about storage in one common storage facility:
- Store away from foodstuffs.

Store away from caustic solutions.

· Further information about storage conditions:

Keep containers tightly sealed.

Protect from sunlight.

Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

[·] Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Exposure controls

· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- Keep away from foodstuffs, beverages and feed.
- Engineering controls: Provide adequate ventilation.
- · Breathing equipment: Not required under normal conditions of use.
- Protection of hands:



Protective gloves

Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Safety glasses

(Cont'd. on page 4)

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 08, 2018

Revision: October 08, 2018

Trade name: Bromothymol Blue Indicator Solution

(Cont'd. of page 3)

Follow relevant national guidelines concerning the use of protective eyewear. • **Body protection:** Not required under normal conditions of use.

· Limitation and supervision of exposure into the environment No special requirements.

· Risk management measures No special requirements.

Information on basic physical and chemical properties					
· Appearance:	and chemical properties				
Form:	Liquid				
Color:	Dark green				
· Odor:	Odorless				
Odor threshold:	Not determined.				
· pH-value:	Not determined.				
 Melting point/Melting range: 	Not determined.	Not determined.			
 Boiling point/Boiling range: 	105-110 °C (221-230 °F)				
· Flash point:	The product is not flammable.	The product is not flammable.			
· Flammability (solid, gaseous):	Not applicable.				
· Auto-ignition temperature:	Not determined.				
· Decomposition temperature:	Not determined.				
· Danger of explosion:	Product does not present an explosion hazard.				
· Explosion limits					
Lower:	Not determined.				
Upper:		Not determined.			
· Oxidizing properties:	Not determined.				
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)				
· Density:					
Relative density:	Not determined.				
Vapor density:	Not determined.				
Evaporation rate:	Not determined.				
· Solubility in / Miscibility with					
Water:	Not determined.				
· Partition coefficient (n-octanol/wat	ter): Not determined.				
·Viscosity					
Dynamic:	Not determined.				
Kinematic:	Not determined.				
[·] Other information	No relevant information available.				

10 Stability and reactivity

(Cont'd. on page 5)

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 08, 2018

Revision: October 08, 2018

Trade name: Bromothymol Blue Indicator Solution

(Cont'd. of page 4)

 Reactivity: No relevant information available.
 Chemical stability: Stable under normal temperatures and pressures.
 Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
 Possibility of hazardous reactions Toxic fumes may be released if heated above the decomposition point.
 Conditions to avoid Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Direct sunlight.
 Incompatible materials No relevant information available.
 Hazardous decomposition products Under fire conditions only: Sulfur oxides (SOx) Sulfur dioxide Bromine compounds

11 Toxicological information

[·] Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification: None.

· Primary irritant effect:

· On the skin: Based on available data, the classification criteria are not met.

• On the eye: Based on available data, the classification criteria are not met.

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

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

· Acute effects (acute toxicity, irritation and corrosivity): No relevant information available.

· Repeated dose toxicity: No relevant information available.

· Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

• Reproductive toxicity: Based on available data, the classification criteria are not met.

• STOT-single exposure: Based on available data, the classification criteria are not met.

• STOT-repeated exposure: Based on available data, the classification criteria are not met.

· Aspiration hazard: Based on available data, the classification criteria are not met.

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Printing date: October 08, 2018

Revision: October 08, 2018

Trade name: Bromothymol Blue Indicator Solution

(Cont'd. of page 5)

12 Ecological information

· Toxicity

· Aquatic toxicity No relevant information available.

- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

[•] Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- vPvB: Not applicable.
- · Other adverse effects No relevant information available.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

[·] Uncleaned packagings

· Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, ADR, IMDG, IATA	Not regulated.	
UN proper shipping name DOT, ADR, IMDG, IATA	Not regulated.	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA		
Class	Not regulated.	
Packing group		
DOT, ADR, IMDG, IATA	Not regulated.	
Environmental hazards	Not applicable.	
Special precautions for user	Not applicable.	

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Printing date: October 08, 2018

Revision: October 08, 2018

Trade name: Bromothymol Blue Indicator Solution

(Cont'd. of page 6)

 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

15 Regulatory information

 Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA) SARA
· Section 302 (extremely hazardous substances):
None of the ingredients are listed.
· Section 355 (extremely hazardous substances):
None of the ingredients are listed.
· Section 313 (Specific toxic chemical listings):
None of the ingredients are listed.
· TSCA (Toxic Substances Control Act)
All ingredients are listed.
· Proposition 65 (California)
· Chemicals known to cause cancer:
None of the ingredients are listed.
· Chemicals known to cause developmental toxicity for females:
None of the ingredients are listed.
· Chemicals known to cause developmental toxicity for males:
None of the ingredients are listed.
· Chemicals known to cause developmental toxicity:
None of the ingredients are listed.
· EPA (Environmental Protection Agency):
None of the ingredients are listed.
· IARC (International Agency for Research on Cancer):
None of the ingredients are listed.
· Canadian Domestic Substances List (DSL) (Substances not listed.):
All ingredients are listed.

16 Other information

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.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

(Cont'd. on page 8)

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 08, 2018

Revision: October 08, 2018

Trade name: Bromothymol Blue Indicator Solution

(Cont'd. of page 7)

IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com