# spectrum®



# SAFETY DATA SHEET

Preparation Date: 7/30/2015	Revision date 2/6/2019	Revision Number: G2
	1. IDENTIFICATION	
Product identifier		
Product code: Product Name:	BR154 BROMOTHYMOL BLUE, REAGENT, ACS	
Other means of identification Synonyms: CAS #:	Bromthymol Blue 3,3'-Dibromothymolsulfonphthalein Dibromothymolsulfophthalein BTB Bromothymol Sulfone phthalein Thymol, 6,6'-(3H-2,1-benzoxathiol-3-ylidene)bis Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis S,S-dioxide 76-59-5	
RTECS # CI#:	SJ7450000 Not available	
Recommended use of the chem	ical and restrictions on use	
Recommended use: Uses advised against	Acid-Base indicator. Dyes. No information available	
Supplier:	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000	
Order Online At: Emergency telephone number Contact Person: Contact Person:	https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Tom Tyner (USA - West Coast) Ibad Tirmiz (USA - East Coast)	

# 2. HAZARDS IDENTIFICATION

#### **Classification**

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)

#### Label elements

#### Not classified

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

# Other hazards

Not available

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

Component	CAS No	Weight-%
Bromothymol Blue	76-59-5	100

	4. FIRST AI	D MEASURES					
First aid measures							
General Advice:	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.						
Skin Contact:		Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.					
Eye Contact:	Flush eyes with water fo persist, call a physician.	r 15 minutes. Get medical attention if irritation occurs. If symptoms					
Inhalation:	Move to fresh air. If not b oxygen. Get medical atte	preathing, give artificial respiration. If breathing is difficult, give ention.					
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.						
Most important symptoms and effe	ects, both acute and delay	yed					
Symptoms	May cause eye/skin/resp	piratory tract irritation					
Indication of any immediate medic	al attention and special t	reatment needed					
Notes to Physician: Treat symptomatically.							
<u>Protection of first-aiders</u> First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.							
	5. FIRE-FIGHTING MEASURES						
Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray, mist, or foam.							
Unsuitable Extinguishing Medi	a:	No information available.					
Specific hazards arising from	n the chemical						
Hazardous combustion produc	ts	Carbon Monoxide, Carbon Dioxide. Sulfur oxides. Hydrogen bromide gas. Bromine.					

May be combustible at high temperatures. Fire may produce irritating and/or toxic gases. Contact with combustible or organic materials may cause fire.

## Special Protective Actions for Firefighters

**Specific Methods:** 

Special Protective Equipment for Firefighters:

No information available

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

# 6. ACCIDENTAL RELEASE MEASURES

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

Personal Precautions:	Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid dust formation. Remove all sources of ignition.
Environmental precautions	Prevent further leakage or spillage. Prevent entry into waterways, sewers, basements or confined areas. Prevent product from entering drains.
Methods and material for contai	nment and cleaning up
Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

#### Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

#### Incompatible Materials:

Oxidizing agents

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

**United States** 

Product code: BR154

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Bromothymol Blue	76-59-5	None	None	None	None

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Bromothymol Blue	76-59-5	None	None	None	None

#### Australia and Mexico

Component	CAS No	Australia	Mexico
Bromothymol Blue	76-59-5	None	None

#### **Appropriate engineering controls**

#### Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### Individual protection measures, such as personal protective equipment

#### **Personal Protective Equipment**

Eye protection:	Safety glasses with side-shields.
Skin and body protection:	Chemical resistant apron Gloves Long sleeved clothing
Respiratory protection:	Wear respirator with dust filter.
Hygiene measures:	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

O DUVSICAL AND CHEMICAL DOODEDTIES

	9. PHYSICAL AND CHEMICAL PROPERTIES					
<b>Physical state:</b>		Appearance:	<b>Color:</b>			
Solid		Crystalline.	Reddish-violet. Violet.			
<b>Odor:</b>		<b>Taste</b>	Formula			
Odorless.		No information available.	C27H28O5SBr2			
	Molecular/Formula weight (g/mole):	Flammability (solid, gas)	Flashpoint (°C/°F):			
	624.39 g/mol	no data available	No information available			
	Flash Point Tested according to:	Autoignition Temperature (°C/°F):	Lower Explosion Limit (%):			
	Not available	No information available	No information available			
	<b>Upper Explosion Limit (%):</b>	Melting point/range(°C/°F):	<b>Decomposition temperature(°C/°F):</b>			
	No information available	200-202°C/ 392-396°F	No information available			
	Boiling point/range(°C/°F):					
	Product code: BR154	Product name: BROMOTHYMOL	Page			

BLUE, REAGENT, ACS

No information available

**Specific gravity:** No information available

**Evaporation rate:** No information available

Odor threshold (ppm): No information available

**Miscibility:** No information available Bulk density: No information available

**pH** No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

**Solubility:** Very slightly soluble in water Soluble in Acetone Soluble in Ethanol **Density (g/cm3):** No information available

Vapor pressure @ 20°C (kPa): No information available

**VOC content (g/L):** No information available

Viscosity: No information available

# **10. STABILITY AND REACTIVITY**

<u>Reactivity</u> Reactive with oxidizing agents

Chemical stability	
Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur
Conditions to avoid:	Heat. Ignition sources. Incompatible materials.
Incompatible Materials:	Oxidizing agents
Hazardous decomposition products:	Carbon oxides. Sulfur oxides. Hydrogen Bromide. Bromine.
Other Information Corrosivity:	No information available

Special Remarks on Corrosivity: No information available

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

**Principal Routes of Exposure:** Ingestion. Inhalation.

#### Acute Toxicity

#### **Component Information**

Bromothymol Blue CAS No

76-59-5

LD50/oral/rat = No information available LD50/oral/mouse = No information available LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No information available Other LD50 or LC50information = No information available

**Product Information** 

LD50/oral/rat = Value - Acute Tox = No information available

LD50/oral/mouse = Value - Acute Tox Oral = No information available

LD50/dermal/rabbit Value - Acute Tox = No information available

LD50/dermal/rat VALUE - Acute Tox Dermal = No information available

LC50/inhalation/rat VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse VALUE-Vapor = No information available VALUE - Gas = No information available VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:	May cause skin irritation.		
Eye Contact:	May cause eye irritation.		
Inhalation	May cause irritation of respiratory tract.		
Ingestion	May cause gastrointestinal (digestive) tract irritation with nausea, vomiting, diarrhea.		
Aspiration hazard	No information available.		
Delayed and immediate effects as well as chronic effects from short and long-term exposure			
Chronic Toxicity	No information available.		
Sensitization:	No information available.		
Mutagenic Effects:	No information available		

Carcinogenic effects:

Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic	
						Substances	Substances

Bromothymol Blue	76-59-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
ACGIH (American Confe	ACGIH (American Conference of Governmental Industrial Hygienists)						
IARC (International Ager	IARC (International Agency for Research on Cancer)						
NTP (National Toxicolog	ıy Program)						
OSHA (Occupational Sat	fety and Hea	Ith Administra	tion of the US D	epartment of L	.abor)		
Reproductive toxicity		No data is a	available				
Reproductive Effects:		No informat	tion available				
Developmental Effects	:		tion available				
Teratogenic Effects:		No informat	tion available				
Specific Target Organ	<u>Toxicity</u>						
STOT - single exposure	9	No informat	tion available.				
STOT - repeated expos			tion available.				
Target Organs:		No informat	tion available.				

# **12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility in soil Other adverse effects	No information available No information available.

# **13. DISPOSAL CONSIDERATIONS**

#### **Disposal Methods**

#### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal. Do not reuse container Dispose of as unused product.

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Bromothymol Blue	76-59-5	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT

UN-No: Proper Shipping Name: Hazard Class Not Regulated No information available No information available

Product code: BR154

Product name: BROMOTHYMOL BLUE, REAGENT, ACS **Subsidiary Class** No information available Packing group: No information available Emergency Response Guide No information available Number Marine Pollutant No data available No information available DOT RQ (lbs): **Special Provisions** No Information available Symbol(s): No information available **Description:** No information available

# TDG (Canada)

UN-No: Proper Shipping Name: Hazard Class Subsidiary Risk: Packing Group: Marine Pollutant Description:

#### ADR

UN Number Proper Shipping Name: Transport hazard class(es) Packing group Subsidiary Risk:

#### IMDG

UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Marine Pollutant

#### RID

UN Number Proper Shipping Name: Transport hazard class(es) Subsidiary Risk: Packing group

#### ICAO (air)

UN-No: Proper Shipping Name: Hazard Class Subsidiary Risk: Packing Group:

#### ΙΑΤΑ

UN Number Proper Shipping Name: Transport hazard class(es) Subsidiary Risk: Packing group Precautionary Statements -Response Special Provisions Not Regulated No information available No information available

Not regulated No information available No information available No information available No information available

Not Regulated No information available No information available No information available No information available No information available

Not Regulated No information available No information available No information available No information available

Not Regulated No information available No information available No information available No information available

Not Regulated No information available No information available No information available No information available IF exposed or concerned

No information available

# **15. REGULATORY INFORMATION**

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
Bromothymol Blue	76-59-5	PresentACTIV E	Present KE-02744	Present	Not present	Х	Х	Present 200-971-2

#### **U.S. Regulations**

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
		-		Reproductive	Reproductive
				Toxicity	Toxicity:
Bromothymol Blue	76-59-5	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

	Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Bi	omothymol Blue	76-59-5	None	None	None	None	None

#### U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Bromothymol Blue	76-59-5	Not Applicable	Not Applicable

#### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

Component Bromothymol Blue 76-59-5 (100) WHMIS 2015 Hazard Classification Not a dangerous product according to HPR classification criteria

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Bromothymol Blue	76-59-5	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Bromothymol Blue	76-59-5	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Bromothymol Blue	76-59-5	Not listed

#### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Bromothymol Blue	76-59-5	

#### EU - CLP (1272/2008)

#### R-phrase(s)

not determined (not applicable)

#### S -phrase(s)

none

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Bromothymol Blue	76-59-5		No information	
The product is closelified in concretence with Appen VI to Directive 67/640/660				

The product is classified in accordance with Annex VI to Directive 67/548/EEC

#### Indication of danger:

None

#### **16. OTHER INFORMATION**

Preparation Date:	7/30/2015
Revision date	2/6/2019
Prepared by:	Sonia Owen

**Disclaimer:** 

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

#### End of Safety Data Sheet