## SAFETY DATA SHEET

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Section 1	Chemical Product and Company Information	Page E1 of E
	80 Northwest Blvd. Nashua, NH 03063 (800) 225-3739	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.
Product	BROMOTHYMOL BLUE, SODIUM SALT	
Synonyms	Bromothymol Blue, pH Indicator	
Section 2	Hazards Identification	
to the Globall Chemicals. Signal word: Pictograms: Target organs GHS Classific GHS Label in		Supplementary information: Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 3	Composition / Information on Ingredients					
Chemical Name		CAS #	%	EINECS		
Bromothymol blue,	, sodium salt	34722-90-2	100%	252-169-7		
Section 4	First Aid Measures					

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

## Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

## Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Protect from light.

Section 8	Exposure Controls / Personal Pro	tection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Bromothymol blue	None established	None established	None established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 1         Projecties           Operation: Solid Light Vide prover.         Expansion: Solid Control           Oddr Threshold: Data not available. Control         Expansion: Solid Control           Oddr Threshold: Data not available. Boiling point: Dota not available. Solibility Goil: Decomposes         Partition coefficient: Data not available. Partition coefficient: Data not available. Solibility Goil: Decomposes           Section 10         Stability & Reactivy         Stability of the solid gravity: Data not available. Solibility Goil: Decomposes           Constrained at abatily: Solid Constrained at abatily: Solid Constrained Solid	Appearance: Solid.							
Code: No. dod:       Auto- probability (solid/gas): Data not available.       Auto-protective: Data not available.         Metting / Freezing point: Data not available.       Precomposes       Auto-protective: Data not available.         Metting / Freezing point: Data not available.       Precomposes       Auto-protective: Data not available.         Metting / Freezing point: Data not available.       Precomposes       Molecular formula: CytypeR-Og.Na         Section 10       Stability & Reactivity:       Data not available.       Molecular formula: CytypeR-Og.Na         Molecular formula: CytypeR-Og.Na       Molecular formula: CytypeR-Og.Na       Molecular formula: CytypeR-Og.Na         Molecular formula: CytypeR-Og.Na       Molecular formula: CytypeR-Og.Na       Molecular formula: CytypeR-Og.Na         Molecular formula: CytypeR-Og.Na       Molecular formula: CytypeR-Og.Na       Molecular formula: CytypeR-Og.Na         Molecular formula: CytypeR-Og.Na       Molecular formula: CytypeR-Og.Na       Molecular formula: CytypeR-Og.Na         Molecular formula: CytypeR-Og.Na       Molecular formula: CytypeR-Og.Na       Molecular formula: CytypeR-Og.Na         Molecular formula: CytypeR-Og.Na       Molecular formula: CytypeR-Og.Na       Molecular formula: CytypeR-Og.Na         Molecular formula: CytypeR-Og.Na       Molecular formula: CytypeR-Og.Na       Molecular formula: CytypeR-Og.Na         Molecular formula: CytypeR-Og.Na       Molecular formula:								
Chemical stability:       Stable       Hazardous polymerization:       Will not occur:         Conditions to avoid:       Excessive temperatures. Protect from light.         Incompatible materials:       Strong oxidizers.         Hazardous decomposition products:       Carbon oxides, sulfur oxides and bromine gas.         Section 11       Toxicological Information         Acute toxicity:       Data not available         Seriour corresonitirization:       Data not available         Seriour corresonitirization:       Data not available         Gerningenity:       Data not available         NTP:       No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.         NAC:       No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.         Reproductive toxicity:       Data not available         STOT-single exposure:       Dat not available         STOT-single exposure:       Dat available         Strong endition hards.       Strong endition hards.         Strong and symptome of exposure:       To the best of our knowledge, the chemical, physical and toxicological properiles have not been thoroughly investigated. Specific or available         Strong and symptome of exposure:       To tavailable       Specific or available	Odor threshold: Data not availa pH: Data not availa Melting / Freezing   Boiling point: Deco	ata not available. ble. <b>point:</b> Data not available pmposes	Flammability ( Explosion lim Vapor pressur Vapor density Relative density	solid/gas): Data not a its: Lower / Upper: N re (mm Hg): Negligible (Air = 1): Data not av (Specific gravity): Data	available. ot needed e ailable	Auto-igniti Decompos Viscosity: Molecular	on temperature: ition temperature Data not available formula: C <sub>27</sub> H <sub>27</sub> E	Data not available : Data not available
Conditions to avoid: Excessive temperatures. Protect from light. Incompatible materials: Strong oxidizers. Hazardous decomposition products: Carbon oxides, sulfur oxides and bromine gas. Section 11 Toxicological Information Acute toxicity: Data not available Sorious evel damagerinity: Data not available Gern cell mutagerinity: Data not available StrOT-single exposure: Data not available STOT-single exposure: Data not available Stotic May cause initiation. Signs and symptoms of exposure: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Specific on additional information: RTCS & Data not available Section 12 Ecological Information Toxicity to fish: No data available Stotic to dapha available Stotic to dapha available Section 13 Dispocal Considerations Dispocal Considerations Stoppical Information Toxicity to dapha available Stoppical Visa dapa available Stoppical Visa davailable S	Section 10	Stability & Reactivity						
Acute toxicity: Data not available Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Gerr cell mutagenicity: Data not available Gerr cell mutagenicity: Data not available Gerr cell mutagenicity: Data not available Carcinogenity: Data not available STOT-speated exposure: Data not available STOT-speated exposure: Data not available STOT-speated exposure: Data not available Cotential health effects: Inhalaton: May be harmful if walowed. Skin: May cause irritation. Eyes: May cause irritation. Stars ad symptoms of exposure: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Specific or available. Storting as symptoms of exposure: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Specific or available Storting as symptoms of exposure: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Specific or available Storting as available Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to daphnia and other aquatic invertebrates: No data available Storting as are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or I regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Section 13 Sposal Consideration UNINA number: Not applicable Shipping name: Not Regulated Packing group: Not applicable Packing group: Not appli	Conditions to avoi Incompatible mate	d: Excessive temperatures. P rials: Strong oxidizers.	rotect from light.		Will not occur.			
Skin corresion/irritation: Data not available       Serious eye damage/irritation: Data not available         Reprintery or skin sensitization: Data not available       Serious eye damage/irritation: Data not available         Carrinogenity: Data not available       Serious eye damage/irritation: Data not available         NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.         NRC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.         Reproductive dexposure: Data not available         STOT-repeated exposure: Data not available         STOT-repeated exposure: Data not available         Aspiration nazard: Data not available         Stim: May cause irritation.         Stim of adavailable         Per	Section 11	Toxicological Information	n					
Section 12       Ecological Information         Toxicity to fish: No data available       Toxicity to fish: No data available         Toxicity to daphnia and other aquatic invertebrates: No data available       Toxicity to algae: No data available         Persistence and degradability: No data available       Bioaccumulative potential: No data available         Mobility in soil: No data available       PBT and vPvB assessment: No data available         Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.         Section 13       Disposal Considerations         These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may be different. Dispose of in accordance with al local, state and federal regulations or contract with a licensed chemical disposal agency.         Section 14       Transport Information         UN/NA number: Not applicable       Shipping name: Not Regulated         Hazard class: Not applicable       Packing group: Not applicable         Reportable Quantity: No       Marine pollutant: No         Exceptions: Not applicable       2012 ERG Guide # Not applicable         Section 15       Regulatory Information         A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.         Component       TSCA       CERLCA (RQ)       RCRA code       DSL       NDSL       WHMI	Serious eye damag Respiratory or skii Germ cell mutager Carcinogenity: Da NTP: No componen IARC: No componen OSHA: No compone OSHA: No compone Reproductive toxic STOT-single expos STOT-repeated exp Aspiration hazard: Potential health ef Inhalation: May be Ingestion: May be I Skin: May cause irr Eyes: May cause ir	ge/irritation: Data not availab n sensitization: Data not available ta not available to fithis product present at leve nt of this product present at leve nt of this product present at leve itor fithis product present at leve to fithis product present at leve itor of this product present at leve to fathis product present at leve itor of this product present at leve this product present at leve itor of this product present at leve this produ	lable els greater than or els greater than or vels greater than o of our knowledge, t	equal to 0.1% is identi r equal to 0.1% is iden	fied as probable, po tified as a carcinoge	ssible or confir n or potential o	med human carcir carcinogen by OSF	IA.
Toxicity to daphnia and other aquatic invertebrates: No data available       Bioaccumulative potential: No data available         Persistence and degradability: No data available       Bioaccumulative potential: No data available         Mobility in soil: No data available       PBT and VPvB assessment: No data available         Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.         Section 13       Disposal Considerations         These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or I regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.         Section 14       Transport Information         UN/NA number: Not applicable       Packing group: Not applicable       Reportable Quantity: No       Marine pollutant: No         Exceptions: Not applicable       2012 ERG Guide # Not applicable       Reportable Quantity: No       Marine pollutant: No         Section 15       Regulatory Information       Toxa CERLCA (RQ)       RCRA code       DSL       NDSL       WHMIS Classifica	not available. Exerc	cise appropriate procedures to		hazards.				investigated. Specific data
UN/NA number:       Not applicable       Shipping name:       Not Regulated         Hazard class:       Not applicable       Packing group:       Not applicable       Reportable Quantity:       No       Marine pollutant:       No         Exceptions:       Not applicable       2012 ERG Guide # Not applicable       Reportable Quantity:       No       Marine pollutant:       No         Section 15       Regulatory Information       A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.       Cemponent       TSCA       CERLCA (RQ)       RCRA code       DSL       NDSL       WHMIS Classification	not available. Exerci Additional informa	tion: RTECS #: Data not ava		hazards.				/ Investigated. Specific data
Hazard class: Not applicable       Packing group: Not applicable       Reportable Quantity: No       Marine pollutant: No         Exceptions: Not applicable       2012 ERG Guide # Not applicable       Reportable Quantity: No       Marine pollutant: No         Section 15       Regulatory Information       A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.       Kerne Component       TSCA       CERLCA (RQ)       RCRA code       DSL       NDSL       WHMIS Classification	not available. Exerc Additional informa Section 12 Toxicity to fish: Not Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: Not Other adverse effe Section 13 These disposal guregulations may b	cise appropriate procedures to tion: RTECS #: Data not avain Ecological Information o data available and other aquatic invertebra to data available egradability: No data available o data available cts: An environmental hazard Disposal Consideration idelines are intended for the e different. Dispose of in acc	ilable ates: No data avai e Bioaccum PBT and v cannot be exclude s e disposal of cata	lable ulative potential: No PvB assessment: No d in the event of unpro llog-size quantities o	data available o data available fessional handling o nly. Federal regul	r disposal. ations may a		ntainer. State and/or loc
A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.           Component         TSCA         CERLCA (RQ)         RCRA code         DSL         NDSL         WHMIS Classification	not available. Exerc Additional informa Section 12 Toxicity to fish: Not Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: Not Other adverse effe Section 13 These disposal gur regulations may b Section 14	cise appropriate procedures to tion: RTECS #: Data not avain Ecological Information of data available and other aquatic invertebra to data available egradability: No data available of data available cts: An environmental hazard Disposal Consideration didelines are intended for the e different. Dispose of in acc Transport Information	ilable ates: No data avai e Bioaccum PBT and v cannot be exclude s e disposal of cata	lable ulative potential: No PvB assessment: No d in the event of unpro llog-size quantities o	data available o data available fessional handling o nly. Federal regul	r disposal. ations may a		ntainer. State and/or loc
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.