SAFETY DATA SHEET

| Section 1 | Chemical Product and Company Information | Page E1 of E2 | | | |
|--|---|---|--|--|--|
| | 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 | BROMOPHENOL BLUE, 0.04% AQUEOUS SOLUTION | | | | |
| Synonyms | Bromophenol Blue, Water Solution | | | | |
| Section 2 | Hazards Identification | | | | |
| to the Globa Chemicals. Signal word Pictograms: | nce or mixture has not been classified as hazardous according Illy Harmonized System (GHS) of Classification and Labeling of : Not classified : Not classified ns: None known | Supplementary information: Do not breathe vapors, spray or mist. 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. | | | |
| GHS Label i | ication: Not classified nformation: Hazard statement: Not classified ry statement: Not classified | | | | |
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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 | | | |
| Water | 7732-18-5 | 99.96% | 231-791-2 | | | |
| Bromophenol blue, sodium salt | 62625-28-9 | 0.04% | 263-653-2 | | | |
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| 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: Use any media suitable for extinguishing supporting fire.

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: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

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: Absorb with inert dry material, 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 vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

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

| Section 8 | Exposure Controls / Personal Protection | | | | | | |
|------------------|---|------------------|------------------|------------------|--|--|--|
| Exposure Limits: | Chemical Name | ACGIH (TLV) | OSHA (PEL) | NIOSH (REL) | | | |
| Exposure Linits. | Bromophenol 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 misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

| approved respirator. | | | | | | | |
|--|---|---|---|-------------------------|--|-----------------------|-----------------------------------|
| Section 9 | Physical & Chemical Prop | perties | | | | | |
| Appearance: Liquid, clear, blue. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: Approximately 0°C (32°F) (water) Boiling point: Approximately 100°C (212°F) (water) Flash point: Data not available | | Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Approximately 1.0 (water) Solubility(ies): Complete in water. | | | Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Mixture r) Molecular weight: Mixture | | |
| Section 10 | Stability & Reactivity | | | | | | |
| Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures which cause evaporation. Protect from light. Incompatible materials: Strong oxidizers. Hazardous decomposition products: Carbon oxides, sulfur oxides and bromine gas. | | | | | | | |
| Section 11 | Toxicological Information | | | | | | |
| Skin corrosion/irrita Serious eye damage Respiratory or skin Germ cell mutageni Carcinogenity: Data NTP: No component IARC: No component OSHA: No component Reproductive toxici STOT-single expose STOT-repeated expo Aspiration hazard: Potential health effe Inhalation: May be ha Skin: May cause irrit Eyes: May cause irrit Signs and symptom | Acute toxicity: Data not available Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available Carcinogenity: 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. IARC: 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. OSHA: 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: Data not available STOT-repeated exposure: Data not available Potential health effects: Inhalation: May be harmful if inhaled. Ingestion: May be harmful if inwallowed. Skin: May cause irritation. Eyes: May cause irritation. Eyes: May cause irritation. Signs and symptoms of exposure: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards. | | | | | | |
| Section 12 | Ecological Information | | | | | | |
| Toxicity to fish: No Toxicity to daphnia a Toxicity to algae: No Persistence and deg Mobility in soil: No Other adverse effect | data available and other aquatic invertebrat o data available gradability: No data available data available ts: An environmental hazard c | Bioaccum PBT and v | ulative potential: No PvB assessment: No | o data available | r disposal. | | |
| Section 13 | Disposal Considerations | | | | | | |
| | delines are intended for the different. Dispose of in acc | | | | | | |
| Section 14 | Transport Information | | | | | | nour disposar agency. |
| UN/NA number: Hazard class: No Exceptions: Not | Not applicable Ship ot applicable Pacl | ping name: 1 king group: N PERG Guide # | • | Reportable Qua | antity: No | Mar | rine pollutant: No |
| Section 15 | Regulatory Information | | | | | | |
| | to be listed if the CAS number for | - | | | | | |
| Compone | | TSCA | CERLCA (RQ) | RCRA code | DSL | NDSL | WHMIS Classification |
| Bromophenol blue, so | odium salt | Listed | Not listed | Not listed | Listed | Not listed | Not listed |
| | | | | | | | |
| Section 16 | Additional Information | | | | | | |
| | | nty of any kind Er | nolovers should use this i | nformation only as a su | polement to oth | er information dather | ed by them and must make indepen- |
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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.