



# UNISOURCE CHEMICALS PRIVATE LIMITED

Factory : L-15 MIDC TARAPUR, BOISAR - 401506 DIST. THANE

Tel.: 2205 2250; 2205 0713; Fax: ++91-22-22019990 ;

E-mail: unisourceindia@gmail.com; Web: www.ucplchem.com

## BRILLIANT CRESYL BLUE

### Material Safety Data Sheet

#### **1. PRODUCT IDENTIFICATION:**

**Synonyms:** C.I. 51010

**CAS No.:** 81029-05-2

**Molecular Weight:** 385.96

**Chemical Formula:** C<sub>17</sub>H<sub>20</sub>C<sub>1</sub>N<sub>3</sub>O \*0.5ZnCl<sub>2</sub>

#### **2. COMPOSITION, INFORMATION ON INGREDIENTS:**

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Percent</u>	<u>Hazardous</u>
Brilliant Cresyl Blue	81029-05-2	> 60%	No

#### **3. HAZARDS IDENTIFICATION:**

##### **Emergency Overview**

**Appearance:** Dark green powder. **CAUTION!** Causes eye, skin, and respiratory tract irritation. Light sensitive. The toxicological properties of this material have not been fully investigated.

**Target Organs:** No data found.

##### **Potential Health Effects**

**Eyes:** Causes eye irritation. May cause chemical conjunctivitis.

**Skin:** Causes skin irritation.

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

**Inhalation:** Causes respiratory tract irritation. Can produce delayed pulmonary edema.

**Chronic:** Effect may be delayed.

#### **4. FIRST AID MEASURES:**

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin:** In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothes and shoes. Get medical attention if irritation develops or persists.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls water or milk to drink. **Do NOT** induce vomiting. **NEVER** give anything by mouth to an unconscious person. Get medical attention if irritation or symptoms appear.

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**Notes to Physician:** Treat symptomatically and supportively.

#### **5. FIRE FIGHTING MEASURES:**

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved or equivalent, and full protective gear. During a fire, irritating and highly

toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

**Extinguishing Media:** In case of fire use water spray to cool fire expose containers. Use water spray, dry chemical, Carbon dioxide, or appropriate foam. Use agent most appropriate to extinguish fire.

**Flash Point:** Not applicable.

**Auto-ignition Temperature:** Not applicable.

**Explosion Limits, Lower / Upper:** Not available.

**NFPA Rating:** (estimated) Health:1; Flammability: 0; Instability: 0.

## **6. ACCIDENTAL RELEASE MEASURES:**

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

## **7. HANDLING AND STORAGE:**

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Store protected from light.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from light.

## **8. EXPOSURE CONTROLS, PERSONAL PROTECTION:**

### **Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low.

### **Exposure Limits**

<b><u>Chemical Name</u></b>	<b><u>ACGIH</u></b>	<b><u>NIOSH</u></b>	<b><u>OSHA - Final PEL's</u></b>
Brilliant Cresyl Blue	None listed	None listed	None listed

**OSHA Vacated PELs:** Brilliant Cresyl Blue: No OSHA Vacated PELs are listed for this chemical.

### **Personal Protective EquipmentEyes:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## **9. PHYSICAL AND CHEMICAL PROPERTIES:**

**Physical State:** Powder

**Appearance:** Dark Green

**Odor:** None reported

**Freezing/Melting Point:** 233 - 236 Deg. C

**pH:** Not available.

**Vapor Pressure (mm Hg):** Not available.

**Vapor Density (Air = 1):** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Decomposition Temperature:** Not available.

**Solubility:** Soluble in water

**Specific Gravity/Density:** Not available.

#### **10. STABILITY AND REACTIVITY:**

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Conditions to Avoid:** Incompatible materials, light, dust generation, excess heat.

**Incompatibilities with Other Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Hydrogen chloride, nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

**Hazardous Polymerization:** Has not been reported.

#### **11. TOXICOLOGICAL INFORMATION:**

**RTECS:** CAS# 81029-05-2 unlisted.

**LD50/LC50:** CAS# 81029-05-2: Not available.

**Carcinogenicity:** CAS# 81029-05-2 : Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Epidemiology:** No information found.

**Teratogenicity:** No information found.

**Reproductive Effects:** No information found.

**Neurotoxicity:** No information found.

**Mutagenicity:** No information found.

**Other Studies:** No data available.

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

**Environmental Fate:** No information available.

**Environmental Toxicity:** No data available.

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

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

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

Not regulated.

#### **15. REGULATORY INFORMATION:**

**US FEDERAL**

**TSCA**

CAS# 81029-05-2 is not listed on the TSCA inventory. It is for research and development use only.

**Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**

None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

**SARA**

**CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

**SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

**Section 313**

This material contains Brilliant Cresyl Blue (listed as Zinc compounds), ca.100%, (CAS# 81029-05-2) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

**Clean Air Act**

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

**Clean Water Act**

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. CAS# 81029-05-2 is listed as a Toxic Pollutants under the CWA.

**OSHA**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 81029-05-2 can be found on the following state right to know lists: California, (listed as Zinc compounds), Pennsylvania, (listed as Zinc compounds).

California No Significant Risk Level: None of the chemicals in this product are listed.

**EUROPEAN/INTERNATIONAL REGULATIONS**

**European Labeling in Accordance with EC Directives**

**Hazardous Symbols:** XI

**Risk Phrases:** R 36/37/38 Irritating to eyes, respiratory system and skin.

**Safety Phrases:** S 24/25 Avoid contact with skin and eyes.

**WGK (Water Danger/Protection)**

CAS# 81029-05-2: No information available.

**Canada - DSL/NDSL**

CAS# 81029-05-2 is not listed on Canada's DSL List.

**Canada - WHMIS**

This product has a WHMIS classification of D2B.

CAS# 81029-05-2 is not listed on Canada's Ingredient Disclosure List.

**16. DISCLAIMER INFORMATION:**

**DISCLAIMER:**

\*\*\*\*\*

**UNISOURCE CHEMICALS PVT. LTD.** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. **UNISOURCE CHEMICALS PVT. LTD.** makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or to the product to which the information refers. Accordingly, **UNISOURCE CHEMICALS PVT. LTD.** will not be responsible for damages resulting from the use of or reliance upon this information.

\*\*\*\*\*