

Material Safety Data Sheet

Product Identification: Phycobiliproteins: R-Phycoerythrin, B-Phycoerythrin, C-Phycocyanin, R-Phycocyanin, Allophycocyanin, Cr-PE 545, Cr-PE 555, Cr-PE 566, Cr-PC 612, Cr-PE 645

Section 1 Physical Data

Chemical Abstracts Registry Number & Name: None assigned

Physical Characteristics: Proteinaceous complex of at least two different types of subunits covalently linked to several different linear porphyrin chromophores known as bilins. The purified protein is provided as a 60 to 80% ammonium saturated colloidal suspension in 50 mM sodium phosphate buffer (pH 7) containing 1 mM EDTA and 0.02% sodium azide.

Section 2 Fire and Explosion Data

Explosion: Azide is known to react with lead and copper plumbing systems. Dispose of properly.

Section 3 Reactivity Data

Stability: Sodium azide emits highly toxic fumes on thermal degradation. A self contained breathing apparatus and protective clothing should be worn.

Section 4 Leak/Spill Disposal Information

Clean-up personnel require protective clothing and respiratory protection from dust. Sweep, scoop or pick up spilled material. Collected material may be transferred to a closed, non-metal container. Do not flush to the sewer.

Section 5 Exposure/Health Effects

Health Hazards: Sodium azide may cause severe headache, dizziness, faintness, nausea, and or low blood pressure at high exposure. Ammonium sulfate is harmful if ingested, inhaled or absorbed through the skin, causes eye and skin irritation, is irritating to mucous membranes and upper respiratory tract. There are no reported health hazards of the phycobiliproteins

First Aid: If skin contact occurs, wash with plenty of soap and water. If eye contact occurs wash with plenty of water and consult a physician. If swallowed, wash out mouth with plenty of water and consult a physician. If inhaled, expose to fresh air and, breathing problems persist, seek medical advice.

Section 6 Occupational Control Measures

Mechanical ventilation and respiratory protection are strongly recommended. Gloves and protective eye wear should be worn when working with this material. Wash all contaminated clothing before reuse.

Section 7 Storage and special information:

Phycobiliproteins are light and temperature sensitive. Store in a refrigerator away from light. Do not freeze.