

MATERIAL SAFETY DATA SHEET

I. Product Identification

Trade name: Cytoplex® HMS®

EPA Registration # 58199-7

II. Hazardous Ingredients/Identify Information

Formulation is a mixture of sulfate salts of magnesium, copper, zinc, iron, and cobalt, the cations of which are chelated with potassium salt of ethylenediaminetetraacetic acid; plus boric acid and the sodium salt of molybdic acid. Sea plant extracts, a source of cytokinin, auxin and gibberellin phytohormones, are also added. Product is formulated in water solvent.

III. Physical and Chemical Characteristics

Boiling point: 95°±C

Specific gravity: 1.09

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Solubility in water: 99.9%

Melting point: Not applicable

Evaporation rate: Not applicable

Appearance and odor: Dark brown/black liquid with slight mild odor

IV. Fire and Explosion Hazard Data

Flash point: Not applicable (water-based liquid)

Flammability limits: Not applicable (water-based liquid)

Extinguishing media: Dry chemical, waterfog, foam, CO₂

Special fire fighting procedures: Wear self-contained breathing apparatus with full face mask. Keep upwind of fire.

Unusual fire and explosion hazards: None known

V. Reactivity Data

Conditions to avoid: Excessive heat

Incompatibility: None known

Decomposition products: May give off oxides or nitrogen or carbon

VI. Health Hazard Data

LD₅₀ Oral – Rats: Not available

Carcinogenicity: None known

Signs and symptoms of exposure:

May cause irritation to skin (dermatitis), eyes, respiratory tract, mouth, throat, and stomach

VII. First Aid:

By eye contact: immediately flush with copious amounts of water. Seek medical attention if irritation persists.

By skin contact: Rinse with soap and copious amounts of water. Get medical attention.

By Inhalation: Determine on individual basis. Move victims to fresh air.

If swallowed: Call a physician or Poison Control Center. Drink plenty of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

Special precautions: None

VIII. Procedures for safe handling

Do not contaminate waterways. Absorb in clay or sand and hold for proper disposal.

Disposal: Dispose in accordance with all applicable federal, state and local regulations.

Keep away from food, feedstuffs, and domestic water supplies.

Keep from excessive heat and from animals and children.

Do not store in metal containers.

Thoroughly clean equipment, wash thoroughly, change clothing and clean protective gear.

IX. Control measures

Use appropriate mask for respiratory protection. Have a local exhaust well ventilated.

Protective, waterproof gloves are recommended.

Goggles are recommended for eye protection.

Wear shoes and socks, long sleeved shirt and pants.

Have safety shower and eyewash equipment available. Wear clean, body-covering clothing and hat.

Prevent eating, drinking, tobacco usage, and cosmetic application in work area to prevent exposure.

Use common sense in work practices.

X. Storage and Transport

Storage stability: Stable at normal temperature and light conditions.

Special storage precautions: Very stable under normal storage conditions when kept in closed original container in a cool place. Keep from freezing.

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. P.B.T., Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.