HP-Starch

Material Safety Data Sheet (MSDS)

1. Product Identification
   Product Name: HP-Starch
   INCI Name: hydroxypropyl starch phosphate
   Chemistry: modified starch
   CAS Number: 113894-92-1
   EINECS Number: not available

2. Physical & Chemical Properties
   Melting Point: not applicable
   Boiling Point: not applicable
   Non-Volatiles: 6 – 10%
   Viscosity: not applicable
   Specific Gravity: 1.5
   Solubility in water: soluble
   Refractive Index: not determined
   Appearance & Odor: white power with starch odor

3. Stability & Reactivity
   Chemical Stability: Stable
   Incompatibility: no hazardous reactions with proper storage and handling
   Thermal Decomposition: not applicable
   Hazardous Polymerization: not applicable

4. Handling & Storage
   Storage Temperature: Ambient
   Sensitivity to Static Electricity: Yes
   Sensitivity to Mechanical Impact: No

5. Accidental Release Measures
   Normal precautions for “nuisance dust” should be observed. Avoid prolonged inhalation of dust. Sweep up or vacuum up and place in suitable container for disposal.

6. Exposure Controls & Personal Protection
   Respiratory Protection: General ventilation with NIOSH approved dust mask.
   Protective Clothing: Chemically resistant gloves, safety glasses with side shields, and uniforms, coveralls, or a lab coat should be worn.
   Other Protective Measures: Remove contaminated clothing and launder before reuse. Wash before eating, drinking, or using toilet facilities.

7. Hazards Identification
   General: Possible physical irritant from dust particles. Potential for dust explosion.
   Inhalation: This material can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m³.
   Eye Contact: Particulates may scratch eyes surfaces and cause mechanical irritation.
   Skin Contact: non irritant.
   Ingestion: Unlikely to be hazardous if swallowed.
   Primary Route of Entry: Eye contact, skin contact, inhalation, ingestion.

8. First Aid Measures
   Eyes: Remove particles by irrigation with eye wash solution or clean water, holding eyelids apart. If symptoms develop, obtain medical attention.
   Skin: Wash exposed areas of the body with soap and water.
   Inhalation: Remove to fresh air. Get medical attention if irritation persists.
   Ingestion: Treat symptomatically and supportively. Get medical attention.

9. Fire Fighting Measures
   Flash Point: Not applicable
   Extinguishing Media: Dry Chemical: CO2; Water Fog: Foam
   Fire Fighting Procedures: No special procedures are required.

10. Toxicological Information
    General: This product is considered as being non-toxic. Use of good industrial hygiene practices is recommended.
    Acute oral LD50: no data available
    Carcinogenicity: There is no evidence this material poses a carcinogenic risk under normal conditions of handling and use.

11. Disposal Consideration
    Waste Disposal Methods: Disposal should be in accordance with local, state or national legislation.
    Empty Containers: Empty containers may contain product residue, follow MSDS and label warnings even after they have been emptied.

12. Transport Information
    DOT Shipping Name: not regulated
    ADR/RIC Code: not regulated
    Sea Transport IMDG Code: not regulated
    Air Transport IATA: not regulated

13. Disclaimer
    This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company’s knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user’s responsibility to satisfy himself as to the suitableness & completeness of such information for his own particular use.