

IS 17412 : 2020 Trimethyl phosphite - Technical grade

Trimethyl Phosphite is an Organophosphorus compound with the formula $P(OCH_3)_3$, often abbreviated $P(OMe)_3$. This colourless liquid is used as a ligand in organometallic chemistry and as a reagent in organic synthesis

IS 17412 is an Indian Standard for Trimethyl Phosphite that sets forth the criteria for safe and efficient storage of food grains in bulk quantities. Developed by the Bureau of Indian Standards (BIS), this standard is crucial for ensuring the quality and safety of food grains during storage, which is a key concern in agriculture and food supply chains. Focuses on guidelines for bulk storage facilities to preserve the quality of food grains over extended periods.

This Standard mainly addresses the precautions to be taken in storing and handling. As trimethyl phosphite is flammable, keep away from heat, sparks and flame. Store away from water and air. Incompatible with oxidizing agents, bases, metal salts, peroxides. Necessary safeguards against the risk arising from storage and handling of large volumes of flammable liquids shall be provided and all due precautions taken at all times to prevent accident by fire. It shall be stored in a cool place. Open flames and smoking shall not be allowed where it is stored or handled. Storage vessels shall be vented to suitable scrubber. Handling the material is dangerous until all safety precautions have been read and understood. Avoid contact with skin and eyes. Wear full face protection and gloves. Use only nonsparking tools. Keep container tightly closed. Store locked up.

Requirements for Trimethyl Phosphite and test methods to test the product have been mentioned in the Standard and also general requirements of sampling and criteria for conformity of the material has been prescribed in the standard.

Packing and marking requirements given in the standard provides crucial information about selection of suitable containers and information to be marked on each container. Bureau of Indian Standards (BIS) gives third party guarantee to the purchaser when you buy ISI marked product and also redressal mechanism available for the complaints made with respect to quality of the product purchased.

IS 17412 is a comprehensive guide for ensuring the safe and effective bulk storage of food grains, helping reduce wastage and spoilage. Following this standard supports food security and maintains the nutritional value and safety of grains from farm to table.