QPS™ ETPPI Ethyltriphenylphosphonium Iodide

Description and Features

Ethyltriphenylphosphonium Iodide, also known as QPS ETPPI, is a quaternary phosphonium salt commonly used for a variety of specialized applications including the advancement and/or curing of phenolic based epoxy resins and thermosetting powder coatings, in organic synthesis as a Wittig reagent and as a phase transfer catalyst. The product is an off-white powder and is highly soluble in water and polar solvents.

QPS ETPPI has many performance advantages over quaternary ammonium salts, amines and imidazoles in that it offers superior latency and thermal stability, controlled reactivity, minimal color formation, and low odor.

It provides for longer, straighter chain epoxy molecules with a sharp molecular weight distribution while reducing or eliminating side reactions.

The product is available in 30 liter plastic pails containing 20 kilograms or 120 liter lock rim fiber drums containing 60 kilograms.

Solubility in Various Solvents

<table>
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<tr>
<th>Solvent</th>
<th>Solubility (g/l)</th>
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<tbody>
<tr>
<td>Isopropanol</td>
<td>15</td>
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<tr>
<td>Methanol</td>
<td>480</td>
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Storage

The material should be stored in its original container in a cool, dry and well ventilated location away from oxidizing agents, reducing agents and bases. When not in use, re-seal the plastic bag containing the product to minimize contact with air.

If product containers are kept sealed and dry the shelf life of the material is greater than 1 year from date of manufacture.

Handling

QPS ETPPI is a skin and eye irritant and care is necessary when handling it. Workers should wear appropriate protective clothing, chemical safety glasses and rubberized gloves at a minimum. Ensure adequate ventilation and that all equipment is electrically grounded before beginning transfer operations. Read the complete MSDS/SDS for complete instructions before handling.
Material Safety Data Sheet

Dow Material Safety Data Sheets (MSDS) contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Under the OSHA Hazard Communication Standard, workers must have access to and understand MSDS on all hazardous substances to which they are exposed. Thus it is important that you provide appropriate training and information to your employees and make sure they have available to them an MSDS on any hazardous product in the workplace.

We recommend that you obtain copies of the MSDS from your local Dow technical representative or from the sales office nearest to you before using our products in your facilities.

Upon initial shipment of non-OSHA-hazardous and OSHA-hazardous products (including samples), Dow sends the appropriate MSDS to the recipient. If you do not have access to one of these MSDS, please contact your local Dow representative for a copy. Updated MSDS are sent upon revision to all customers of record. MSDS are also sent annually to all customers receiving products deemed hazardous under the Superfund Amendments and Reauthorization Act (SARA). MSDS should be obtained from suppliers of other materials recommended in this bulletin.

The Dow Chemical Company is a member of the American Chemistry Council (ACC) and is committed to the ACC’s Responsible Care® Program.

Registration

All of the components in QPS ETPPI are registered with:

TSCA (USA)  EINECS (EU)  DSL (Canada)  MITI (Japan)
Australia    China      Korea

The information contained herein is to the best of our knowledge and belief, accurate. However, since the conditions of handling and of use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by following these suggestions. Nothing contained herein is to be construed as a recommendation for use in violations of any patents or of applicable laws or regulations.