
CYPHOS[®] 442

Phosphonium Salt

Tetrabutylphosphonium bromide

Phosphonium salts are employed primarily as phase transfer catalysts. They are also potentially useful as biocides, plant growth regulators, and in curing epoxy resins. CYPHOS 442 phosphonium salt is provided as a 70% solution in 2-propanol and as a 75% solution in water.

Typical Properties

	442P	442W
Tetrabutylphosphonium Bromide	70% in 2-Propanol	75% in Water
Appearance	----Colorless to light yellow mobile liquid----	
Flash Point Closed Cup	14°C	N/A
Specific Gravity @ 22°C	0.98	1.06

Handling and Storage

Keep away from heat, sparks, and flame. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

Health and Safety

Tetrabutylphosphonium bromide (75% in water) has acute rat oral and rabbit dermal LD50 values of 583 mg/kg and 200 mg/kg, respectively. Based on the low dermal LD50, this material is considered to be highly toxic when absorbed through the skin. The rat inhalation LC50 is reported to be >3mg/m³/1 hour. This material has also been demonstrated to be severely irritating to the eyes and skin of rabbits following direct contact. This material was non-mutagenic in the Ames test.

It is estimated that the toxicity of tetrabutylphosphonium bromide (70% in 2-propanol) would be similar to tetrabutylphosphonium bromide (75% in water).

Before handling this material, read the corresponding Cytec Industries Inc. Material Safety Data Sheet (MSDS) for complete safety, health and environmental data.

Shipping

CYPHOS 442 phosphonium salt is available in 210 liter drums and 1,000 liter intermediate bulk containers.

Government Approval/Regulatory Information

For chemical inventory regulatory control listing information for the United States, Canada and European Union, see the Material Safety Data Sheet.

IMPORTANT NOTICE

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility or as an assumption of a duty on our part. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information, products or vendors referred to herein. **NO WARRANTY OF FITNESS FOR PARTICULAR PURPOSE IS MADE.** Nothing herein is to be taken as permission, inducement or recommendation to practice any patented invention without a license.

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