

Technical Data Sheet (TDS)

Product Name: PolyetherBY-110

Product Introduction

BY-110 is a castor oil polyoxyethylene ether type polyether product. BY-110 is easily soluble in water, fatty acids, or other organic solvents and possesses excellent emulsifying properties. It can be used as an emulsifier in organic phosphorus pesticides, inks, and the pharmaceutical industry; as a crude oil dehydrating agent in oil fields; for formulating water-soluble metalworking fluids in the metal processing industry; and in the textile industry, where it provides both emulsifying and antistatic effects.

Specifications

Product	BY-110	Test Standard
Appearance	Yellow viscous liquid	Q/ZHDDZB05.10.001-2024
Water Content, %	≤0.050	
pH (1% aqueous solution)	5.0~7.0	
Hydroxyl Value, mgKOH/g	82±10	
Cloud Point, °C (0.5% in 25% ethanol aqueous solution)	43~54	

Packaging

Packaged in clean, dry, sealed, leak-proof dedicated painted iron drums, net weight 200kg per drum; or in tank trucks, flexitanks, IBCs. Can also be packaged according to customer requirements. Packaging containers must be tightly closed.

Storage & Transportation

During transportation, protect from rain and contamination. Handle with care to avoid collision with hard objects to prevent leakage and damage.

During storage, store at room temperature in a ventilated, dry warehouse. Avoid damp environments. Storage temperature should be maintained below 50°C. Avoid

direct sunlight. Keep away from water sources and heat sources. Alternatively seal and store in containers made of steel, aluminum, polyethylene, or polypropylene. To prevent moisture absorption and oxidation, it is recommended to fill the container with nitrogen. Storage temperatures above 60° C may cause product quality degradation. Short-term heating or cooling has little effect on product quality, but note that the product's viscosity increases significantly at lower temperatures, which may cause some difficulty in production and processing.

Shelf Life

Under correct storage conditions, the shelf life is 1 year from the date of production. The product can still be used after re-inspection upon expiry.

Note: For low-odor products, customers are advised to use them as soon as possible.

Safety Information

BY-110 is classified as a non-hazardous goods, has a high flash point, and is combustible. In case of fire, use foam, dry powder, steam, water, etc., for extinguishing. Non-explosive. Almost non-toxic. No special ventilation requirements are needed. The toxicity of general neutral polyether polyol ingested orally or in contact with skin, eyes, and mucous membranes is negligible. In case of skin contamination, rinse with soapy water. In case of eye contact, rinse with low-pressure clean water or seek medical treatment. Workers can wear eye guards or safety glasses to protect their eyes. Eye wash and shower equipment should be available near the workplace. The product is generally considered non-hazardous to the skin. When working in areas where contact with the product is possible, pay attention to personal hygiene. Before eating, smoking, and leaving the work post, clean the skin that has been in contact with the product using cleaning products.

Spill Handling

Stop the leak if it is safe to do so. For minor spills, absorb with sand or other absorbent material and place in a clean, dry container for subsequent disposal. For large spills, collect the spilled material for subsequent disposal. Prevent material from entering groundwater or surface water, as it is not readily biodegradable. All collected spill material should be disposed of in accordance with local environmental regulations.

Disclaimer

The information and technical advice provided above are obtained from reliable sources. However, we make no warranty, express or implied, regarding the data provided and give no assurances herein. We recommend conducting a series of tests if you intend to use our product. We are not responsible for the application, use, processing, or production of products based on the technical information we provide; these responsibilities lie with the user. The conditions and methods for handling, storage, use, or disposal of this product are beyond our control and may exceed our knowledge. In no event shall we be liable for any loss, damage, or expenses incurred due to improper handling, storage, use, or disposal of this chemical.

For more information, please refer to our Product Technical Safety Data Sheet or contact our Market Service Department.

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