

Technical Data Sheet (TDS)

Product Name: PolyetherBY-140

Product Introduction

BY-140 is a castor oil polyoxyethylene ether type polyether product. BY-140 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 oilfields; in the metal processing industry for formulating water-soluble metal cutting fluids; and in the textile industry, where it provides both emulsifying and antistatic effects.

Specifications

Product	BY-140	Test Standard
Appearance	Pale yellow semi-solid	Q/ ZHDDZB05.10.001-2024
Water Content, %	≤0.050	
pH (1% aqueous solution)	5.0~7.0	
Hydroxyl Value, mgKOH/g	33±10	
Cloud Point, ° C (0.5% in 25% ethanol aqueous solution)	82~87	

Packaging

Packaged in clean, dry, sealed, leak-proof special 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 against rain and contamination, handle with care to prevent impact and leakage caused by collision with hard objects.

During storage, store at room temperature in a ventilated, dry warehouse. Avoid damp environments. Storage temperature should be kept below 50° C. Avoid direct sunlight, and 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 will lead to product quality degradation. Short-term temperature increases or decreases have little impact on product quality, but note that the product's viscosity will significantly increase at lower temperatures, which may cause some difficulties 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-140 is classified as a non-hazardous substance, has a high flash point, and is combustible. In case of fire, use foam, dry powder, steam, or water to extinguish. It is non-explosive. It is practically non-toxic and requires no special ventilation. The toxicity of general neutral polyether polyols ingested orally or in contact with skin, eyes, or mucous membranes is negligible. In case of skin contact, rinse with soapy water. In case of eye contact, rinse with low-pressure clean water or seek medical treatment. Workers can wear protective goggles 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. Wash skin that has been in contact with the product using cleaning products before eating, smoking, or leaving the work area.

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 the 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 express or implied warranties regarding the provided data and offer no commitments herein. If you intend to use our product, we recommend conducting a series of tests. We are not responsible for the application, use, processing, or production of products based on the technical information we provide, as these are beyond our control.

and therefore the responsibility lies 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 losses, damages, or related costs 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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