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Technical Data Sheet (TDS)

Product Name: Polyether ZHD-303

Product Introduction

Polyether polyol ZHD-303 is a colorless transparent liquid widely used in the pultrusion polyurethane composite field. During production, one or several polyethers are used in combination. Compared with traditional unsaturated polyester or epoxy resin, it has better low-temperature flexibility and fatigue resistance. At the same time, polyether polyol has lower viscosity, which is beneficial for fiber impregnation and meets the requirements of rapid curing. This grade of polyether can also be used as a polyurethane elastomer crosslinking agent and rigid foam crosslinking agent, which can increase product hardness. When used in foam sealants, it can increase foam hardness and curing speed.

Specifications

Product	ZHD-303	Test Standard
Appearance	Clear liquid, free of suspended matter	Q/ZHDDZB 05.10.001-2024
Water Content, %	≤0.050	Q/ZHDDZB 05.10.001-2024
K+, ppm	≤5	Q/ZHDDZB 05.10.001-2024
pH Value	6.0~7.2	Q/ZHDDZB 05.10.001-2024
Hydroxyl Value, mgKOH/g	460.00~480.00	Q/ZHDDZB 05.10.001-2024
Acid Value, mgKOH/g	≤0.050	Q/ZHDDZB 05.10.001-2024
Color, APHA	≤30	Q/ZHDDZB 05.10.001-2024
Viscosity (25°C), mPa·s	350~550	Q/ZHDDZB 05.10.001-2024

| Packaging

The product is packaged in clean, dry, sealed, leak-proof dedicated painted iron drums with a net weight of 200kg per drum; or in tank trucks, flexitanks, IBCs. It can also be packaged according to customer requirements. Packaging containers must be tightly closed.

| Storage & Transportation

During transportation, protect ZHD-303 from rain and contamination. Handle with care to prevent impact and leakage caused by collision with hard objects.

Store ZHD-303 in a ventilated, dry warehouse at room temperature. Avoid damp environments. The storage temperature should be kept below 50°C. Avoid direct sunlight, and keep away from water sources and heat sources. Alternatively, store sealed in containers made of steel, aluminum, polyethylene, or polypropylene. To prevent moisture absorption and oxidation, it is recommended to fill the container headspace 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. However, note that the viscosity increases significantly at lower temperatures, which may cause difficulties in processing.

| Shelf Life

Under correct storage conditions, the shelf life is one year from the date of production.

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

| Safety Information

ZHD-303 is classified as a non-hazardous substance. It has a high flash point and is combustible. In case of fire, use foam, dry powder, steam, or water to extinguish. It is not explosive. It is practically non-toxic and requires no special ventilation. The toxicity of typical neutral polyether polyols upon ingestion or contact with skin, eyes, or mucous membranes is negligible. In case of skin contact, wash with soap and water. In case of eye contact, rinse with low-pressure clean water or seek medical treatment. Workers can wear goggles or safety glasses for eye protection. Eye wash and shower facilities should be available near the work area. The product is generally considered non-hazardous to 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, drinking, 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 guarantees herein. We recommend conducting a series of tests if you intend to use our product. Applications, uses, processing, or production based on the technical information we provide are beyond our control, and therefore the responsibility lies with the user. The conditions and methods of 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 expenses incurred due to improper handling, storage, use, or disposal of this chemical.

For more information, please refer to the Technical Safety Data Sheet (SDS) for our product or contact our Market Service Department.

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