Technical Data Sheet (TDS)

Product Name: Polyether MX-101

Product Introduction

MX-101 is one of the PTMEG-blocked series of polyether polyols. The block content in this product is ≥48% based on tetrahydrofuran monomer. It is suitable for the preparation of polyurethane adhesives, elastomers, coatings, and other products. This product can significantly improve the strength (such as tensile strength, bonding strength), hardness, wear resistance, heat resistance, and solvent resistance of polyurethanes. This product may appear paste-like at low temperatures; it is recommended to heat it to 30°C for easier handling.

Specifications

Item	MX-101	Test Standard
Appearance	Transparent liquid or paste	Q/ZHDDZB 05.10.001-2024
Hydroxyl Value, mgKOH/g	56±2	Q/ZHDDZB 05.10.001-2024
Water Content, %	≤0.05	Q/ZHDDZB 05.10.001-2024
Acid Value, mgKOH/g	≤0.05	Q/ZHDDZB 05.10.001-2024
Unsaturation Value, kg/mol	≤0.02	Q/ZHDDZB 05.10.001-2024

pH Value	5.5~7.5	Q/ZHDDZB 05.10.001-2024
Viscosity, mPa·s (25°C)	600~800	Q/ZHDDZB 05.10.001-2024
Color, APHA	≤30	Q/ZHDDZB 05.10.001-2024

Packaging

Packaged in clean, dry, sealed, leak-proof special painted iron drums, net weight 200 kg per drum; or in tank trucks, flexitanks, IBCs. Customized packaging is available upon customer request. Containers must be kept tightly closed.

Storage & Transportation

During transportation, protect MX-101 from rain and contamination. Handle with care to avoid impact with hard objects which may cause leakage.

Store in a ventilated, dry warehouse at room temperature. Avoid damp environments. Storage temperature should be maintained at 25-30°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, but note that viscosity increases significantly at lower temperatures, which may cause difficulties in processing.

Shelf Life

Drummed products should be stored at room temperature in a ventilated, dry warehouse. After use, containers should be sealed to prevent moisture absorption. For low-aldehyde or low-VOC content products stored in tanks, nitrogen blanketing is recommended for

protection.

Under correct storage conditions, the shelf life is 1 year from the date of production.

Safety Information

MX-101 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 no special ventilation is required. The toxicity of typical neutral polyether polyols upon ingestion or contact with skin, eyes, or mucous membranes is negligible. If skin contact occurs, wash with soap and water. In case of eye contact, rinse with low-pressure clean water or seek medical treatment. Workers can wear protective goggles or safety glasses for eye protection. Eye wash and shower equipment should be available near the workplace. 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 contacted the product with cleaning agents before eating, smoking, or leaving the work area.

Spill Handling

Stop the leak if it is safe to do so. For minor spills, use sand or other absorbent material to contain the spill, then place it 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 before using our product. The application, use, processing, or production of goods

based on the technical information we provide is 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. Under no circumstances 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) of our product or contact our Market Service Department.

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