

Technical Data Sheet (TDS)

X-53 - English Version

Product Name

X-53

Product Introduction

X-53 is a trifunctional polyether polyol with a molecular weight of 3000 based on glycerol. X-53 is mainly used for the preparation of defoamer products. It can effectively reduce the surface tension of water, solutions, suspensions, etc., and has good defoaming effect and foam suppression performance. It is widely used in papermaking, fermentation, and wastewater treatment fields.

Specifications

Item	X-53	Test Standard
Appearance	Colorless transparent liquid	Q/ZHDDZB05.10.001-2024
Hydroxyl Value, mgKOH/g	51~55	
Color, APHA	≤50	
Viscosity (25°C), mPa·s	450~550	
Water Content, %	≤0.05	
Acid Value, mgKOH/g	≤0.05	
pH Value	5.5~7.5	
Cloud Point, °C (1% aqueous solution)	21.0~23.0	

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 X-53 from rain and contamination. Handle with care, avoid collision with hard objects to prevent leakage.

Store X-53 in a ventilated, dry warehouse at room temperature. Avoid damp environments. Storage temperature should be kept below 50°C. Avoid direct sunlight. Keep away from water sources and heat sources. To prevent moisture absorption and oxidation, it is recommended to fill the container headspace with nitrogen. Storage temperatures above 60°C may cause product quality degradation. Short term

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 viscosity increases significantly at lower temperatures, which may cause some difficulties in processing.

Shelf Life

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

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

Safety Information

X-53 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 non-explosive. Almost non-toxic. No special ventilation requirements. 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 soapy water. In case of eye contact, flush with low-pressure clean water or seek medical treatment. Workers can wear eye shields or safety glasses for eye protection. Eye wash and shower equipment 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 leaks, use sand or other absorbent material to absorb 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 express or implied warranties regarding the provided data and offer no guarantees herein. If you intend to use our product, we recommend conducting a series of tests. We are not responsible for products applied, used, processed, or manufactured based on the technical information we provide, as these are beyond our control, and 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 related expenses caused by improper handling, storage, use, or disposal of this chemical.

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

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