

Technical Data Sheet (TDS)

Product Name: Polyether DYT-001

Product Introduction

DYT-001 is a trans-block polyether produced from a 2-functional initiator using an alkaline catalyst. In the metalworking fluid field, DYT-001 is primarily used as a lubricant in cutting fluids. It is also used in industrial machine cleaning applications, functioning as a coolant and lubricant in metal cutting and grinding operations.

Specifications

Item	DYT-001	Test Standard
Appearance	Colorless transparent liquid	Q/ZHDDZB05.10.001-2024
Viscosity (40°C), mPa·s	220 – 300	Q/ZHDDZB05.10.001-2024
Water Content, %	≤0.050	Q/ZHDDZB05.10.001-2024
pH	5.5 – 7.5	Q/ZHDDZB05.10.001-2024
Acid Value, mgKOH/g	≤0.08	Q/ZHDDZB05.10.001-2024
Hydroxyl Value, mgKOH/g	37 – 41	Q/ZHDDZB05.10.001-2024
Potassium Ion (K ⁺), mg/kg	≤5	Q/ZHDDZB05.10.001-2024
Cloud Point (10% Aqueous Solution), °C	58 – 62	Q/ZHDDZB05.10.001-2024

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 against rain and contamination. Handle with care to prevent impact and leakage caused by collision with hard objects.

Store in a ventilated, dry warehouse at room temperature. Avoid damp environments. Storage temperature should be maintained 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, but note that viscosity increases significantly at lower temperatures, which may cause difficulties in 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 this period if re-inspection confirms it meets specifications.

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

Safety Information

DYT-001 is classified as a non-hazardous substance. It has a high flash point and is combustible. Extinguish fires using foam, dry powder, steam, or water. It is not explosive. Practically non-toxic. No special ventilation requirements are needed. The toxicity of general neutral polyether polyol 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, flush with low-pressure clean water and seek medical attention. Workers can wear eye protection or safety glasses. Eye wash and shower facilities should be available near the work area. The product is generally considered non-hazardous to skin. Observe personal hygiene when working in areas where contact with the product is possible. 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, contain and collect the spilled material for 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 assume no liability thereof. We recommend testing our products for suitability before use. We are not responsible for the application, use, processing, or production of goods based on the technical information we provide, and such responsibilities lie solely with the user. The conditions and methods of handling, storage, use, or disposal of this product are beyond our control and may be beyond our knowledge. In no event shall we be liable for any loss, damage, or costs incurred due to improper handling.

storage, use, or disposal of this chemical.

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

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