

Technical Data Sheet (TDS)

Product Name: Polyether RPE-3110

Product Introduction

RPE-3110 is a trans-block polyether produced from a 2-functional initiator using an alkaline catalyst. RPE-3110 can be used as a lubricant in synthetic metalworking fluids, release agents, and synthetic spin finishes. They are effective lubricants at moderately elevated temperatures, are easy to clean, and do not leave tar-like residues at high temperatures. RPE-3110 can be used as a cleaning agent in the dairy, brewing, and soft drink industries; as a cleaning agent in metalworking and other industrial cleaning applications; and as a low-foaming surfactant and defoamer in dishwashing machines and rinse aids, where it exhibits a synergistic effect when used with other low-foaming surfactants. Additionally, RPE-3110 can be used as a foam inhibitor in detergents, cleaners, and other formulated products.

Specifications

Item	RPE-3110	Test Method
Appearance	Colorless transparent liquid	Q/ ZHDDZB05.10.001-2024
Viscosity (25°C), mPa·s	510~650	Q/ ZHDDZB05.10.001-2024
Water Content, %	≤0.050	Q/ ZHDDZB05.10.001-2024
pH	5.5~7.5	Q/ ZHDDZB05.10.001-2024
Hydroxyl Value, mgKOH/g	35~39	Q/ ZHDDZB05.10.001-2024

		ZHDDZB05.10.001-2024
Potassium Ion, mg/kg	≤5	Q/ ZHDDZB05.10.001-2024
Cloud Point, (5% in 25% BDG)	19~23	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. Containers must be tightly closed.

Storage & Transportation

During transportation, protect from 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 kept below 50°C. Avoid direct sunlight. 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 the product's 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 it passes re-inspection.

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

Safety Information

RPE-3110 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 general 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, 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 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, 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 the spilled material for subsequent recovery. 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. The application, use, processing, or production of products 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. 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 our Technical Safety Data Sheet (TSDS) or contact our Market Service Department.

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