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Technical Data Sheet (TDS)

Product Name: Polyether PEG-400

Product Introduction

PEG-400 is a polyethylene glycol with an average molecular weight of 400. It is soluble in water and many polar solvents such as acetone, ethanol, and chlorinated solvents. PEG-400 has broad chemical compatibility and can be used as a base for pharmaceuticals and cosmetics, as well as a lubricant and wetting agent in the rubber and textile industries.

Specifications

Product	PEG-400	Test Standard
Appearance	Clear liquid, free of suspended matter	Q/ZHDDZB05.10.001-2024
Hydroxyl Value, mgKOH/g	275.00~285.00	Q/ZHDDZB05.10.001-2024
Water Content, %	≤0.050	Q/ZHDDZB05.10.001-2024
pH Value	5.5~7.5	Q/ZHDDZB05.10.001-2024
Potassium Ion, mg/kg	≤6	Q/ZHDDZB05.10.001-2024
Color, APHA	≤50	Q/ZHDDZB05.10.001-2024

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 PEG-400 from rain and contamination. Handle with care to

During transportation, protect PEG-400 from rain and contamination. Handle with care to prevent impact and leakage caused by collision with hard objects.

Store PEG-400 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. 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

PEG-400 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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