

DESCRIPTION:

Diethylene glycol is a clear, colorless, low-volatility and hygroscopic liquid, with moderately viscous. It is completely miscible with water and many organic liquids.

APPLICATION:

Diethylene glycol (DEG) is most commonly used as the chemical Intermediate for the production of unsaturated polyester resins, polyester polyol, Thermoplastic polyurethanes, emulsifiers and Morpholine. Moreover, DEG is used in applications which require hygroscopic, lubricants, and low volatility such as plasticizer, solvent in printing ink, textile lubricant, humectants and dehydrating agents.

PHYSICAL PROPERTIES:

Form	liquid
Appearance	Clear
Molecular Weight	106.12
pH	7
Boiling Point, 760 mm Hg, °C	245
Flash Point, PMCC, °C	143
Melting Point, °C	-10
Specific Gravity, 20/20°C	1.1183
Refractive Index, 20°C	1.4476
Vapor Pressure, mm Hg, 20°C	0.03
Viscosity, cSt, 40°C	13.65
Aldehyde as FA, ppm	0.7
Sodium as Na, ppm	<0.1
Potassium as K, ppm	<0.1
Chloride as Cl, ppm	<0.1
Purity (DEG content), %wt	>99.8

REGULATORY INFORMATION:

IMDG Classification	Non-Dangerous Goods
HMS Code	1-1-0
HS Code	2909.41.00

HANDLING AND STORAGE:

Keep the material in the anhydrous state to prevent severe corrosion to the carbon steel or aluminum tank and related equipment. For longer term color stability, it is recommended that the product be stored under an inert atmosphere.

Diethylene glycol products have 24 months of shelf-life time under unopened drum. The product should be re-evaluated after 24 months to reconfirm the product quality, if properly stored and protected from contamination. For bulk container, the shelf-life time of product is 6 months from manufacturing date.

For storage conditions, product is hygroscopic, water contamination should be avoided. Keep container tightly closed without air contamination. Due to Diethylene glycol is very sensitive with moisture, an elevated moisture level when do re-sampling might be faced. The periods of exposure to high temperatures should be minimized. Avoid directly contact with sunlight and higher temperature. Diethylene glycol is recommended to be stored under an inert atmosphere such as nitrogen blanket to sustain product stability.

PACKING & COVERAGE

Packing : 230 KG HDPE Barrel.

SHELF LIFE & STORAGE

Di Ethylene Glycol has a shelf life of 12 months from date of manufacture when kept at a temperature between 5°C to 45 °C and store in the original, unopened bags. All material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze.

QUALITY ASSURANCE

AMBICA SPECIALITY CHEMICALS is a firm of Assessed Capability. The company's quality system conforms to ISO 9001:2015.

HEALTH & SAFETY

Di Ethylene Glycol is no-toxic and non-flammable. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. Full health and safety data are given in Product Safety Data Sheet.