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Technical Dipentaerythritol

Technical Data Sheet

18.12.2019

Composition:	Technical Dipentaerythritol consists of dipentaerythritol with minor impurities of monopentaerythritol and organic compounds. Dipentaerythritol is produced together with monopentaerythritol by condensation of acetaldehyde and formaldehyde in alkaline conditions.
Available grades:	Grade A, premium
CAS no:	126-58-9
EC no:	204-794-1
REACH registration number:	01-2119473984-22-0008
Chemical formula:	$C_{10}H_{22}O_7$
Production:	Production started in 4Q 2018

PHYSICAL AND CHEMICAL PROPERTIES

Parameter	Guaranteed	Average
Appearance	White crystalline powder	White crystalline powder
Mass fraction of dipentaerythritol, %	Min 93	95
Melting temperature, °C	Min 215	221
Mass fraction of water and volatile products, %	Max 0,1	0,05
Mass fraction of ash, %	Max 0,01 (100 ppm)	0,007
Color (Gardner)	Max 3	3
Mass fraction of hydroxyl groups	38-41	40,2

Applications

- **Alkyd resins**
- **Synthetic lubricants**
- **PVC stabilizers (plasticizers)**
- **Rosin esters**
- **Intumescent coatings**
- **Sealants**
- **Adhesives**
- **Rubber compounding**

Data on Product

- Reference values:
 - Boiling point - 356 °C;
 - Density at 20 °C – 1,37 g/cm³;
 - Solubility in water at 20 °C – 2,4 g/l
- Product is moderately hazardous by the level of exposure on human organism

Package

- Multilayer moisture proof paper bags with valve (20 kg)
- 500 kg FIBC
- All above mentioned packaging can be fitted on CP-1 pallets (1000*1200 mm)

Applied means of transport

Dipentaerythritol is transported by all means of roofed transport (20' and 40' containers, tented trucks and covered railcars).

Classification of hazardous cargo: (acc. to UN recommendations for hazardous cargo transportation)

Dipentaerythritol is a non-hazardous cargo and it is not classified by UN recommendations.

Conditions and duration of safe storage

Dipentaerythritol is stored in closed warehouse with good ventilation protecting the material against atmospheric precipitation. Product should be stored on pallets positioned min 5 cm above the floor and min 1 meter from heaters. Dipentaerythritol can be stored packed in FIBC on open areas under a canopy or without it, with additional protection from direct sunlight on pallets and precipitation min 5 cm from the ground. Storage period shall not exceed 2 years from the date of manufacturing.