
Technical Information

TI/ES 1447 e
April 2000 (DFC)

Golpanol[®] BEO

[®] = Registered trademark of
BASF Aktiengesellschaft

Product used to formulate brightener additives for the electroplating industry, corrosion inhibitor

BASF

Golpanol BEO

Chemical nature

2-Butyne-1,4-diol ethoxylate

Structural formula $\text{HO} - \text{CH}_2 - \text{CH}_2 - \text{O} - \text{CH}_2 - \text{C} \equiv \text{C} - \text{CH}_2 - \text{O} - \text{CH}_2 - \text{CH}_2 - \text{OH}$

Molecular formula $\text{C}_8\text{H}_{14}\text{O}_4$

Molar mass (DIN 51405) 174.2 g/mol

Properties

Physical form Clear, yellow liquid

Water content (DIN 51777, Part 1, ASTM D 1744) < 0.5 %

pH (ISO 976, 10%, 23 °C) 6 – 8

Refractive index (DIN 51423, Part 2, ASTM D 1218, 23 °C) 1.4835 – 1.4865

Density (DIN 51757, ASTM D 1298, hydrometer, 23 °C) 1.138 – 1.148 g/cm³

Iodine colour (DIN EN 1557) < 40

The above information is correct at the time of going to press. It does not necessarily form part of the product specification.

A detailed product specification is available from your local BASF representative.

Solubility

Golpanol BEO is miscible with water and acids in all proportions.

It should not be diluted with concentrated oxidizing acids, because this can cause it to decompose.

Storage

Golpanol BEO has a shelf life of two years in its sealed original packaging.

Application

Golpanol BEO is used to formulate brightener additives employed in the electroplating industry. It is a very effective as a top brightener in nickel electroplating baths at a concentration of 20 – 50 mg/l.

Golpanol BEO can also be used as a corrosion inhibitor for metals in acidic media.

Safety

We know of no ill effects that could have resulted from using Golpanol BEO for the purpose for which it is intended and from processing it in accordance with current practice.

According to the experience we have gained over many years and other information at our disposal, Golpanol BEO does not exert any harmful effects on health, provided that it is used properly, due attention is given to the precautions necessary for handling chemicals, and the information and advice given in our safety data sheet are observed.

Labelling

Classification according to German chemicals legislation based on EU Directive 67/548/EEC:

Harmful.

Note

The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

BASF Aktiengesellschaft
Marketing Spezialchemikalien I
67056 Ludwigshafen, Germany

BASF