
Technical Information

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Golpanol[®] BOZ Crystals

[®] = Registered trademark of
BASF Aktiengesellschaft

Product used to formulate brightener additives for the electroplating industry

BASF

Golpanol BOZ Crystals

Chemical nature

2-Butyne-1,4-diol

Structural formula

$\text{HOCH}_2\text{C}\equiv\text{CCH}_2\text{OH}$

Molecular formula

$\text{C}_4\text{H}_6\text{O}_2$

Molar mass (DIN 51405)

86.09 g/mol

Properties

Physical form

Colourless or yellowish flakes

Concentration
(BASF method, GC,
percentage area under curve)

> 98 %

Bulk density
(ISO 697, 40 mm diam.)

0.400 – 0.600 g/ml

Melting point
(ISO 3013, ASTM D 2386)

54 – 56 °C

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 BOZ Crystals are soluble in water and in aqueous solutions of acids in virtually all proportions.

They are also soluble in many organic solvents.

They should not be dissolved in concentrated oxidizing acids, because this causes them to decompose.

Storage

Golpanol BOZ Crystals have a shelf life of one year in their sealed original packaging. They have to be protected from moisture, heat and ambient air. They should not be stored at temperatures above 30 °C for any length of time, because this causes them to oxidize and undergo thermal degradation which leads to caking and discoloration.

Application

Golpanol BOZ Crystals are used to formulate brightener additives employed in the electroplating industry. They are used as a high-performance top brightener in nickel electroplating baths at a concentration of 100 – 200 mg/l. Formulations that contain Golpanol BOZ Crystals can be used to obtain a very high gloss.

Safety

We know of no ill effects that could have resulted from using Golpanol BOZ Crystals for the purpose for which they are intended and from processing them in accordance with current practice.

According to the experience we have gained over many years and other information at our disposal, Golpanol BOZ Crystals do not exert any harmful effects on health, provided that they are 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:

Toxic, corrosive.

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.

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