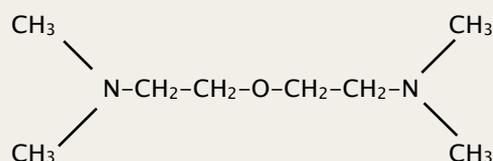


TEGOAMIN® BDE

TEGOAMIN® BDE is an amine catalyst with a high activity, which is preferably used for the production of flexible polyurethane foams. Exact dosing is facilitated by a 30 % content of di-propylene glycol in TEGOAMIN® BDE.

Chemical structure



Physical properties

Appearance	clear, slightly yellow liquid
Water content	max. 0.5 %
Solubility in water	unlimited

Instructions for storage

For TEGOAMIN® BDE we guarantee a shelf life of at least 12 months upon delivery under the condition that it is stored in factory-packed containers and protected against extreme weather conditions, particularly against extremely high temperatures. The solidification point of TEGOAMIN® BDE is below -50 °C. Storage at low temperatures is therefore not a general problem.

After prolonged storing the colour of TEGOAMIN® BDE may deepen distinctly. This does not affect the activity of the catalyst.

Performance

The tertiary amine TEGOAMIN® BDE strongly accelerates both of the chemical reactions which are essential for the formation of polyurethane foams: the blowing reaction and the gelling reaction.

A selective comparison and a comparison with other amines show that the catalyzed activity especially of the blowing reaction between isocyanate and water is several times higher with TEGOAMIN® BDE than with other commonly available amines. This special combination of an extremely strong preference of the blowing reaction with a generally very high performance potential in cooperation with the tin catalyst which promotes the gelling reaction provides a very reliable control of the foaming process. The rising speed can be varied in a wide range by changing the applied concentration of TEGOAMIN® BDE without impairing the open-celled structure of the foam.

Application

In most cases a content of 0.05 to 0.10 parts TEGOAMIN® BDE per 100 parts polyol is absolutely sufficient. For the production of special grades with high densities or foams with a high content of filling agents enhancement of the catalytic activity may be necessary which is achieved by applying up to 0.2 parts TEGOAMIN® BDE.

It is always possible to foam formulations which contain just one amine catalyst, TEGOAMIN® BDE. But it is often beneficial and altogether up to date to use at least one more amine as a co-catalyst.

Well approved co-catalysts for hot cured foams are TEGOAMIN® 33 und TEGOAMIN® DMEA and for cold cured or HR foams – TEGOAMIN® 33.

Packaging

450 kg pallet (9 x 50 kg in steel drums)
720 kg pallet (4 x 180 kg in steel drums)

For Information

- on classification and labelling in accordance with shipping instructions and the Toxic Substances Control Act
- on protective measures during storage and handling
- on measures in case of accidents and fire
- on toxicology and ecological toxicity

please refer to our safety data sheets.

Legal References

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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