



Technical Data Sheet

Product Name: Eco-friendly Polyurethane Catalyst CUCAT-HAB

Typical Properties:

Appearance	Yellowish transparent liquid
Chroma(Fe-Co)	≤4
Density (g/cm ³ , 25℃)	1.023
Viscosity (mPa.s, 25℃)	365
Smell	With special compound smell.

Solubility: Soluble in general polyurethane raw materials such as polyether polyols.

Eco-friendly characteristics: It does not contain eight heavy metals, azo, phthalate and other toxic components. The polyurethane material synthesized by this product can pass the strict international environmental protection regulations and is an ideal substitute for organic mercury, lead, tin and other catalysts.

Applications:

It is a versatile polyurethane catalyst, which can be widely used in polyether polyol systems and aromatic or aliphatic isocyanate such as TDI, MDI, HDI and IPDI. It is recommended to be used in polyurethane CASE products, such as casters, rubber plates and rods, single and two-component sealant, adhesives and coatings, especially for room temperature curing or medium temperature curing polyurethane products.

Features & Advantages:

CUCAT-HAB is an improved product of CUCAT-HAA, which improves the higher transparency of CUCAT-HAA in polyether polyurethane system. It has a stronger targeted inhibition effect on the reaction between water and isocyanate. It is developed for the bubble free requirements of products in the field of polyurethane CASE (especially polyurethane elastomer). Different from common amine and tin catalysts, CUCAT-HAB has targeted catalytic characteristics that does not catalyze the reaction between trace water and isocyanate, avoiding CO₂ bubbles (polyether polyols can be used without high-temperature and vacuum dehydration). Even in wet rainy weather, it can effectively avoid the phenomena of bubbles, cracking, bulging and peeling of the product, which is very similar to organic mercury.

User's Guide:

- It is recommended to be added into polyol (material P), preferably after vacuum degassing and before sealing, and stir evenly.
- It is not recommended to be added into the components of isocyanate (ISO, material I) due to the risk of gelation. The applicability test must be applied first.
- The dosage is related to isocyanate system, active hydrogen system and product's hardness. The general dosage is 0.05 ~ 0.5% of the weight of P material.
- After normal use, the tank mouth must be closed immediately to avoid open placement.

Handling & Storage: Please store in a cool, dry environment away from sunlight and rain.

Package: 25kg/200kg in HDPE drum

Shelf Life: Unopened shelf life 24 months from the date of manufacture.

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