

# Toyocat DMCH Hard bubble catalyst for tertiary amine Tosoh

## Overview:

Toyocat DMCH catalyst C-8 is a tertiary amine catalyst. It is a strong base that is soluble in water and most organic solvents. Due to its excellent properties and strong gel activity, it can be used in a variety of foam applications.

When Toyocat DMCH catalyst C-8 is used as the main catalyst in PUR, the recommended dosage is 1 to 5 php.

Toyocat DMCH catalyst C-8 dimethylcyclohexylamine (DMCHA), a standard hard bubble catalyst;

## Physicochemical properties

Toyocat DMCH is colorless to light yellow transparent liquid at room temperature, soluble in alcohol and ether solvents, insoluble in water.

Density (25°C) : 0.85-0.87g /cm<sup>3</sup>

Freezing point: -60°C

Flash point (closed cup) : 40~41°C

Boiling range: 160~165°C

Viscosity (25°C) : 2mPa.s

## Product Application

The main use of Toyocat DMCH is as a catalyst for rigid polyurethane foam.

Toyocat DMCH is a medium active amine catalyst with low viscosity, which is used for refrigerator rigid foam, plate, spraying, and on-site injection of polyurethane rigid foam. The catalyst has a catalytic effect on both gel and foam, providing a more balanced catalytic performance for the foaming reaction and gel reaction of hard bubbles, it is stronger for the reaction of water and isocyanate (foaming reaction), and also has a moderate catalytic activity for the reaction of polyols and isocyanate, it is a strong initial catalyst for foam reaction. In addition to being used for hard bubbles, it can also be used as an auxiliary catalyst for molding soft bubbles and semi-hard bubbles.

Toyocat DMCH is especially suitable for the preparation of two-component system, can be dissolved in a variety of hard foam polyols and additives, in the combination of materials, adjustable, and can be stored for a long time.



### Disclosure treatment

Stop leaks as much as possible while ensuring safety. If a minor leak is found, treat it with sand or other absorbent material and place it in a clean, dry container for subsequent treatment. If a large amount of leakage occurs, the leaked material should be collected for subsequent treatment. Avoid material entering groundwater or surface water, because it is not easily degraded by biological matter. All collected leakage materials should be disposed of in accordance with the relevant regulations of the local environmental protection department.

### Disclaimer

The information and technical advice provided above are obtained from reliable

sources. However, the data provided by us is without express or implied warranties, and no commitments are made herein. If you need to use our products, we recommend a series of tests. The application, use, processing or production of products based on the technical information provided by us is outside our control and therefore the responsibility lies with the user. Conditions and methods of handling, storage, use or disposal of this product are beyond our control and may be beyond our knowledge, and under no circumstances will we be liable for loss, damage or related expenses arising from improper handling, storage, use or disposal of this chemical. For more information, please review the technical safety specifications of our products or contact our Marketing Services department.

### **Safety Information:**

Catalyst, rinse with soapy water promptly after contact with skin. The staff can wear an eye mask or safety glasses to achieve the purpose of eye protection. Eye washing and bathing facilities should be available near the workplace. When working in places that may come into contact with the product, you should pay attention to personal hygiene and use detergent to wash the skin in contact with the product before eating, smoking and leaving the work.

### **Shelf life:**

Remain unopened for two years

**Storage and Transportation:**

Should be sealed, stored in a dry cool ventilated warehouse

**Packing:**

200KG/ barrel storage: It is recommended to store in a dry and cool area with proper ventilation. After the original packaging, please fasten the packaging cover as soon as possible to prevent moisture and other substances from mixing and affecting the product performance. Do not inhale dust and avoid contact between skin and mucous membrane. Smoking, eating and drinking are prohibited in the workplace. Shower and change after work. Store contaminated clothes separately and use them after washing. Practice good hygiene.

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