

Polycat 12 catalyst CAS10144-28-9 Evonik Germany

Overview

Polycat 12 is a tertiary amine catalyst for the production of polyurethane foam. It is a clear, colorless liquid with a mild odor. Polycat 12 is a strong catalyst that can be used to produce foams with a variety of properties. It is also a low-odor catalyst, which makes it ideal for applications that require attention to odor emissions.

Physical and chemical properties

Properties	value
CAS number	10144-28-9
EINECS No	215-562-9
Molecular Formula	C ₁₂ H ₂₃ N ₃
Molecular weight	227.3 g/mole
Appearance	Clear colorless liquid

smell	Mild
Density	0.94 g/cm ³
Boiling point	155 °C
Flash point	100 degrees Fahrenheit
Solubility	Soluble in water, alcohol, ether

Features

Strong catalyst

Low odor

Wide range of applications

Ease of use

Application

- Soft polyurethane foam
- Rigid polyurethane foam
- Elastomer

- Paint
- Adhesive

Advantages

- Strong catalyst
- Low odor
- Wide range of applications
- Ease of use

Disadvantages

- Corrosive to certain metals
- Combustible
- May be toxic by inhalation or ingestion



Precautions for use

- Wear gloves and safety goggles when handling Polycat 12.
- Keep Polycat 12 away from heat and open flames.
- Do not inhale Polycat 12 vapor.
- If it comes into contact with skin, wash it immediately with soap and water.
- If swallowed, do not try to induce vomiting. Call poison control immediately.

Storage

Store Polycat 12 in a cool, dry place. Keep the container airtight.

Dispose

Dispose of Polycat 12 according to local regulations.

Similarities and differences with similar products

Polycat 12 is similar to other tertiary amine catalysts, such as Polycat 33 and Polycat 8. However, Polycat 12 is a weaker catalyst than Polycat 33 and Polycat 8. This means that foam curing takes longer when Polycat 12 is used. Polycat 12 is also less effective at producing high-density foam. However, Polycat 12 is less corrosive to metals than Polycat 33 and Polycat 8.

Overall, Polycat 12 is ideal for applications that require low-odor catalysts and do not require fast curing times.

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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