

PC CAT TD100 Catalyst

Overview:

Triethylene diamine, also known as triethylenediamine. White or light yellow crystal. Ammonia odor, this product is an organic synthesis intermediate, synthetic light stabilization materials, widely used in polyurethane foam, elastomer and plastic products and molding process. It is also a starting agent for polymers and can be used as catalyst for ethylene polymerization and catalyst for ethylene oxide hydrocarbon polymerization, etc. Its derivatives can be used as corrosion inhibitor and emulsifier, etc.

Basic information:

Abbreviation: TEDA, DABCO, PC CAT TD100

English name: TRIETHYLENEDIAMINE

Chemical formula: C₆H₁₂N₂

Physical and chemical properties

TEDA is colorless or white crystal in normal state, easily absorbed moisture and caking in air, alkaline, absorbing CO₂ in air and yellowing. Easily soluble in acetone, benzene and ethanol. Pure TEDA toxicity is very small, inhalation of saturated TEDA vapor will cause slight mucous membrane irritation, eye damage, irritation of the skin will cause allergies.

Relative density (25 °C): about 1.14

Melting point of pure product: 158-159°C

Flash point: 60°C

Boiling point: 174°C, easy to sublime, slightly ammonia smell

Vapor pressure: about 67Pa at 21°C, 533Pa at 50°C, 7.7kPa at 100°C

Method of preparation:

There are several methods of synthesizing TEDA at home and abroad. The general process is to pass the aqueous solution of amine or alcoholic amine raw materials through the reactor filled with catalytic zeolite at a certain flow rate, and react under the condition of 320-400°C and 0.3MPa, and after purification, TEMA is obtained.



Package

Packed in clean, dry, sealed and leak-free special plastic drums with a net weight of 20kg/25kg/180kg per drum.

Storage and transportation

When transporting Catalyst, it should be strictly protected from rain and staining, carefully and gently stored to prevent leakage from collision with hard objects. When storing Catalyst, it should be stored at room temperature in a ventilated and dry warehouse, avoiding humid environment, and the storage temperature should be kept below 25°C, avoiding sunlight as much as possible, and away from water and heat sources. To prevent moisture absorption and oxidation, it is recommended to fill the container with nitrogen.

Shelf life

Under proper storage conditions, the shelf life is 6 months from the date of manufacture, after which the product can be used after retesting.

Safety Information

Catalyst is somewhat toxic and should be rinsed with soapy water promptly after contact with skin. Staff can wear eye protection or safety glasses for the purpose of eye protection. Eye wash and drenching equipment should be provided near the workplace. When working in places where contact with the product is possible, attention should be paid to personal hygiene and the skin in contact with the product should be washed with washing products before

eating, smoking and leaving the workplace.

Leak handling

Stop spills as much as possible while ensuring safety. If a minor spill is found, treat it with sand or other absorbent material and place it in a clean, dry container for subsequent disposal. If a large spill occurs, the spilled material should be collected for subsequent disposal. Avoid entering groundwater or surface water as the material is not readily biodegradable. All collected spilled material should be disposed of in accordance with local environmental regulations.

Disclaimers

The information and technical advice provided above has been obtained from our reliable sources, however, we make no express or implied warranties with respect to the data provided and make no promises herein. If our products are to be used, we recommend that they undergo a series of tests. The application, use, processing or production of products based on the technical information provided by us is beyond our control and therefore these responsibilities are the responsibility of the user. The condition and method of handling, storage, use or disposal of this product is beyond our control and may be beyond our knowledge, and in no event will we be liable for loss, damage or costs associated with the improper handling, storage, use or disposal of this chemical. For more information, please review the technical safety sheets for our products or contact our marketing services department.

Uses:

Promotes the reaction of hydroxyl functional groups with NCO

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Shelf life.

Keep unopened,two years

Storage and transportation:

Should be kept sealed and stored in a dry, cool and ventilated warehouse

Packaging:

200KG/drum Storage: It is recommended to store in dry and cool area with proper ventilation. Please fasten the lid as soon as possible after the original packaging to prevent the mixing of

other substances such as water and other substances from affecting the product performance. Do not inhale dust and avoid skin and mucous membrane contact. Smoking, eating and drinking are prohibited in the workplace. After work, shower and change clothes. Store contaminated clothes separately and wash them before use. Maintain good hygiene habits.

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