

## U-CAT 3512T catalyst CAS134963-35-9 Sanyo Japan

U-CAT 3512T is an aromatic dimethylurea. It is highly active and has excellent curing properties in the presence of dicyandiamide (DICY) and hydrazide.

### Physicochemical properties of U-CAT 3512T

CAS No. : 134963-35-9

Molecular formula: C<sub>10</sub>H<sub>12</sub>N<sub>2</sub>O

Molecular weight: 184.22 g/mol

Appearance: white powder

Density: 1.18g/cm<sup>3</sup>

Solubility: Soluble in polar solvents such as acetone, methylene chloride, ethyl acetate, etc

Flash point: 160°F (71°C)

Spontaneous combustion temperature: 472°F (246°C)

### How to make U-CAT 3512T

U-CAT 3512T is prepared by the reaction of dimethylamine with urea in the presence of hydrochloric acid and other catalysts.

### Use of U-CAT 3512T

U-CAT 3512T is used as an epoxy hardener for dicyandiamide (DICY) and hydrazide curing systems. It is suitable for applications where high strength, toughness and chemical resistance are required. U-CAT 3512T can also be used as a curing agent for other thermosetting resins such as phenolic resins and polyester resins.

### **Advantages of U-CAT 3512T**

- hyperreactivity
- Excellent curing properties
- Wide range of applications
- Good cost performance

### **Notes on U-CAT 3512T**

- U-CAT 3512T is a flammable material. It should be stored in a cool, dry place away from heat and fire sources.
- U-CAT 3512T can cause skin irritation and eye damage. Wear gloves and goggles when handling.
- U-CAT 3512T should not be ingested. If swallowed, it may cause nausea, vomiting, and diarrhea.

- If U-CAT 3512T comes into contact with skin, wash the area immediately with soap and water. If U-CAT 3512T gets into your eyes, rinse with water for at least 15 minutes and seek immediate medical attention.



**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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