

# Manta CAT-CTHMTS

Advanced Chelated Organotin Catalyst (MS Polymer Grade)

## Description

Manta CAT-CTHMTS is a chelated organotin catalyst specifically engineered for Silane Modified Polymers (MS/STP) and RTV silicone systems. Developed using advanced coordination chemistry, it offers a significant leap in performance over standard organotin catalysts.

While its catalytic speed exceeds both Dibutyltin Dilaurate (DBTDL) and Dibutyltin Diacetate (DBTDA), Manta CAT-CTHMTS eliminates the pungent odor associated with acetate-based tins. Crucially, it provides excellent thermal stability, preventing "reversion" (softening) of the cured rubber even under high-temperature sealed conditions.

Performance equivalent to industry standard Nitto Kasei Neostann U-220.

## Typical Physical Properties

Manta Code:	CAT-CTHMTS
Chemical Name	Chelated Organotin Complex
Appearance	Yellowish Oily Liquid
Tin Content (%)	27.0% – 28.0%
Viscosity(30°C, mPa·s)	10 – 50
Density (30°C, g/cm <sup>3</sup> )	1.21-1.23
Melting Point:	15 – 30 °C

## Features

- **Ultra-Fast Curing:** Significantly reduces tack-free time and deep-cure time compared to DBTDL.
- **Low Odor Profile:** Overcomes the strong, pungent acidic smell of tin diacetate, improving the manufacturing environment.
- **Superior Anti-Reversion:** Cured products remain stable and do not revert to a liquid state when heated in a sealed environment.
- **Excellent Stability:** Maintains consistent catalytic activity during long-term storage of the finished sealant.
- **Tin-Efficient:** High activity allows for lower dosage levels while maintaining rapid reaction kinetics.

## Applications

### 1. MS Polymer & STP Sealants (One-Component)

The premier choice for MS Polymer-based adhesives and sealants used in construction and automotive assembly. It provides the rapid "green strength" required for immediate handling and construction efficiency.

### 2. RTV-1 Silicone Sealants

Specifically suited for single-component room-temperature vulcanized (RTV) silicone rubbers. It

ensures a fast, reliable cure without compromising the shelf stability of the unreacted sealant.

### 3. High-Performance 2K Polyurethane Coatings

Ideal for two-component (2K) PU cross-linked systems, including automotive refinish paints, high-gloss industrial topcoats, and heavy-duty protective coatings. It accelerates the isocyanate-hydroxyl reaction, allowing for faster dust-free and tape-free times.

### 4. Sealed High-Temp Applications

Recommended for gaskets, engine sealants, and industrial bonding where the cured material will be exposed to heat in a confined space.

### Packaging

Available in 25kg steel-plastic composite pails or 200kg drums.

### Safety and Storage

Moisture Sensitivity (CRITICAL): Manta CAT-CTHMTS reacts aggressively with moisture. Avoid all contact with water. Containers must be tightly sealed and ideally purged with dry nitrogen after each use.

Storage: Store in a cool, dry warehouse. If the product solidifies during winter (due to its 15-30°C melting point), it should be gently warmed and homogenized before use.

Safety: Avoid contact with skin and mucous membranes. In case of contact, flush immediately with large amounts of water.

### Contact Information

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