

## CAPCURE® 3830-81 Curing Agent

### Product Description

CAPCURE® 3830-81 curing agent is a medium viscosity, catalyzed mercaptan epoxy curing agent designed specifically for rapid cure in the 3-to-5-minute range at room temperature. CAPCURE® 3830-81 curing agent may be used both, as a sole curing agent or as an accelerator for amine and amide or amido-amine curative chemistries. The fast-set characteristics of this product over a wide temperature range (30 °F to 100 °F) offers utility in industrial, coatings, civil engineering and fast-set adhesive application areas.

### Applications

- Consumer Patch Kits
- Road Marker Adhesives
- Industrial Adhesives
- Jewelry and Craft Adhesive Cure
- Acceleration of Epoxy Adhesive Cure

### Features

- Excellent low-temperature capability
- Rapid Cures
- Thin Film Cures
- Excellent acceleration
- Low toxicity

### Typical Properties

Property	Value
Color, Gardner	1.2 max
Moisture, Dean Stark, Wt %	0.3 max
Viscosity (Brookfield) at 25 °C, cP	10,000 - 16,000
Gel Time at 25 °C, minutes	2.75 – 3.75

## Processing

Example Formulation	Ratio
Epoxy Resin (DGEBA EEW 185-200)	100 Parts
CAPCURE® 3830-81	100 Parts
Property	Value
Gel Time at 25 °C, seconds	4
Glass Transition Temperature, C	34
Hardness after 15 minutes, Shore D	83
Tensile Strength, psi	7,800
Elongation, %	4.5
Compressive Strength, psi	9,800
Lap Shear Strength on Al, psi	2,800
Tack Free Time (Thin Film), minutes	9

\*Test Specimens cured 7 days at room temperature.

## Regulatory Status

TSCA (USA), DSL (Canada), PICCS (Philippines), AICS (Australia), ENCS/MITI (Japan), IECSC (China), EINECS (EU)

## Storage

**CAPCURE® 3830-81** curing agent should be stored in a dry place, in its sealed original container, at temperatures between **10°C - 30°C (50°F - 86°F)**. Under these storage conditions the shelf life is **24 months** from date of manufacture. The product should not be exposed to direct sunlight.

Mercaptans are known to yellow above 75°F. At 90°F the yellowing is accelerated and at 100°F the yellowing is instant. While yellowing is not always observed by the naked eye, a definite increase is detected by the colorimeter.

## **Precautionary Statement**

Huntsman Advanced Materials Americas LLC maintains up-to-date Safety Data Sheets (SDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

### **First Aid!**

Refer to SDS as mentioned above.

**KEEP OUT OF REACH OF CHILDREN**

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