

# Casamod™ 450

## Product Description

**Casamod™ 450** tetrahydrofurfuryl ethyl ether (THFEE, ETE) is part of Thomas Swans range of Polar Modifiers (randomisers) for Solution-Styrene Butadiene Rubber (sSBR).

**Casamod™ 450** is a speciality effect chemical used in the production of rubber. Its role in polymerisation processes contributes to the formation of random copolymer species, making essential in the production of synthetic polymers in the rubber industry.

**Casamod™ 450** also acts a chain transfer agent to control molecular weight and narrower polydispersity.

## Applications

- Synthetic Polymer Synthesis
- SSBR Polar Modifiers
- Rubber Processing
- **Casamod™ 450** ensures optimum randomisation of styrene
- **Casamod™ 450** delivers the narrowest polydispersity

## Features and Benefits

- Highest purity of commercially available THFEE
- Certified 72% biobased content by United States Department of Agriculture's (USDA's) BioPreferred® program
- Very low water content
- High stability
- High bio-based content
- Available in T14 tanks with multi-purpose fittings, eliminating the need for manual transfer.
- Produced in Europe using 100% renewable energy
- Increase vinyl content in sSBR
- Improve random distribution of styrene (styrene randomiser)
- Control of molecular weight
- Improved compatibility and filler dispersion
- Ultra-high-performance polymers

## Mode of Action

**Casamod™ 450** acts as a chain transfer agent during polymerization, impacting the control of molecular weight and polydispersity in the resulting polymers.

## Physical and Chemical Properties

Molecular Weight	130.18 g/mol
Molecular Formula	C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>
Density	Approximately 0.943 g/cm <sup>3</sup> at 20°C

## Packaging

**Casamod™ 450** is available in 180kg steel drums, T14 tanks with multi-purpose fittings, eliminating the need for manual transfer and bulk Isotanks. (Other packaging types can made be available on customer request).



Committed to Responsible Care



**Thomas Swan**  
Performance Polymers

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## Shelf Life

Store under cool, dry conditions. It is recommended that **Casamod™ 450** be used within 12 months of certification.

## Handling

To keep performance at high level, handle, and store under nitrogen. Protect from moisture and oxygen.

## Selling Specification

Assay	99% Min
Alcohol Content (THFA – Tetrahydrofurfuryl Alcohol)	0.5% Max
Water Content	0.2% Max
Inhibitor Content (BHT – Butyl Hydroxy Toluene)	250 to 350 ppm
Appearance	Colourless liquid

## Guidelines for Use

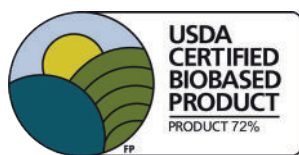
Consult the provided Safety Data Sheet for detailed guidelines on the safe and effective use of **Casamod™ 450**.

## Inventory Status

Australia	Not listed	⊗	New Zealand	Not listed	⊗
Canada	Not listed	⊗	Philippines	Not listed	⊗
China	Listed on IECSC	✔	Taiwan	Not listed	⊗
EU	Listed on REACH	✔	Thailand	Not listed	⊗
Japan	Not listed	⊗	Turkey	Not listed	⊗
South Korea	Listed on AREC	✔	USA	Listed on TSCA (Active)	✔
Malaysia	Not listed	⊗	Vietnam	Listed on VNECI	✔
Mexico	Not listed	⊗	UK	Thomas Swan grandfathered	✔

## Other Information

For further details, refer to our Safety Data Sheet. Our technical support team is available to address any specific inquiries or requirements.



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