

# Casamod™ 550

## Product Description

**Casamod™ 550** 2,2-Di (tetrahydrofuryl) propane (DTHFP) is part of Thomas Swans range of Polar Modifiers (randomisers) for Solution-Styrene Butadiene Rubber (sSBR). The compound is composed of equal parts of both enantiomers (“Racemic”) of 2,2-Di (tetrahydrofuryl) propane.

**Casamod™ 550** is a speciality effect chemical used in the production of rubber, to control the microstructure of the polymer, providing increased vinyl content and distribution of styrene.

## Applications

- Synthetic Polymer Synthesis
- SSBR Polar Modifiers
- Rubber Processing
- **Casamod™ 550** ensures a good degree of vinyl content
- **Casamod™ 550** delivers ideal styrene distribution

## Features and Benefits

- Certified 97% biobased content by United States Department of Agriculture’s (USDA’s) BioPreferred® program
- Increase vinyl content in sSBR
- High level of compatibility and filler dispersion
- Improve random distribution of styrene (styrene randomiser)
- Control molecular weight
- Ultra high-performance polymers
- Highest purity of commercially available DTHFP
- Very low water content
- High stability – 36-month shelf life
- High bio-based content

**Casamod™ 550** optimises the microstructure of sSBR, leading to improved performance characteristics in tires, such as enhanced rolling resistance, wear resistance, and wet braking capabilities.

## Mode of Action

**Casamod™ 550** acts as a co-monomer, meaning it is introduced into the polymerization reaction alongside the primary monomers, styrene, and butadiene.

## Physical and Chemical Properties

Boiling Point	145°C (80mbar)
Density	1.0 (20°C)
Flash Point	95°C (closed cup)
Solubility in Water	<0.2g/100g (20°C)



Committed to Responsible Care

  
**Thomas Swan**  
Performance Polymers

# Casamod™ 550

## Packaging

Casamod™ 550 is available in 205-litre stainless steel drums. Custom packaging options are available upon customer request.

## Shelf Life

It is recommended that Casamod™ 550 is used within 3 years of certification.

## Handling

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

## Selling Specification

Purity	99% Min
Meso-Isomer Content	49.5% Max
Water Content	300 ppm Max
Appearance	Clear colourless to pale yellow liquid

## Guidelines for Use

Refer to the provided Safety Data Sheet for detailed guidelines on the safe and effective use of Casamod™ 550.

## Typical Formulation

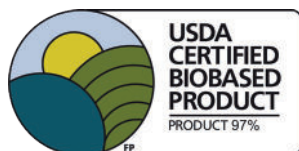
Information on a typical formulation using Casamod™ 550 can be provided based on customer needs.

## Inventory Status

Australia	Not listed	⊗	New Zealand	Not listed	⊗
Canada	Listed on NDSL	⊙	Philippines	Not listed	⊗
China	Not listed	⊗	Taiwan	Listed on TCSI	⊙
EU	Listed on REACH	⊙	Thailand	Listed on TDCA	⊙
Japan	Listed on ENCS	⊙	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, please consult the Safety Data Sheet.



Limited Liability Information: The information contained herein is offered in good faith and is believed to be accurate at the time of printing.

This information should not be used as a substitute for your own quality control and/or testing procedures to ensure that our products are safe, effective and fully satisfactory for the intended end use.

Product use may be limited by regional and/or regulatory restrictions. Active is non EPA and BPR registered.