



SnapCure™ 1010

Product Description

SnapCure™ 1010 (Stock# **H30611**) is a reactive, proprietary titanium chelate with less than 10% alcohol (propanol) solvent. It is sensitive to moisture. The catalyst is soluble in most organic solvents and dissolves to produce a clear, red solution.

Applications

SnapCure™ 1010 is a polyurethane gelling catalyst designed for use with polyether polyols. (Polyols capped with >85% of primary terminal hydroxyl groups give optimum results). For longer open times *SnapCure™ 1010* can be used with any polyether polyol in conjunction with chain-extenders capped with secondary terminal hydroxyl groups. It can also be used with polyester polyols. Typical applications include elastomers, microcellular and mechanically frothed foams. Typical addition levels are from 0.03pph polyol up to 3.0pph polyol depending on the desired reaction time and application. For optimum performance the catalyst should be blended into the dry polyol 12 to 24 hours before use.

Physical and Chemical Properties

Appearance:	Dark red liquid
Titanium content (wt%):	7.7
Flash point (°C):	40 (closed cup)
Viscosity (Poise at 75°F/25°C):	190
Specific gravity (g/cm ³ at 75°F/25°C):	1.13
OH Value (mg KOH/g):	90
Solubility:	Miscible with most esters, glycols and ketones
Shelf-Life (75°F/25°C):	12 months in unopened container

Storage and Disposal

SnapCure™ 1010 should be stored in sealed containers in a cool, dry place. Contamination with foreign materials (including moisture) may adversely affect the performance and processability of *SnapCure™ 1010*. For details on handling, storage and disposal of this compound, please refer to the most recent issue of the Materials Safety Data Sheet.



SnapCure™ 1020

Product Description

SnapCure™ 1020 (Stock# H30550) is a reactive, proprietary zirconium chelate with less than 1% alcohol solvent. It is sensitive to moisture. The catalyst is soluble in most organic solvents and dissolves to produce a clear solution.

Applications

SnapCure™ 1020 is a catalyst designed for use in polyurethane elastomers, and it the fastest reacting catalyst of the *SnapCure™* range in most polyurethane formulations. It is particularly suitable for aliphatic formulations due to its high activity and low colour. It is selective towards the gelling reaction, generating very low water ("blow") reaction. Typical addition levels are from 0.03phpp up to 3.0phpp depending on the desired reaction time and application.

SnapCure™ 1020 is specifically designed for use with polyester polyols but can be used in other polyol systems with very high percentages of primary terminal hydroxyl groups.

Physical and Chemical Properties

Appearance:	Pale yellow liquid
Zirconium content (wt%):	13.8
Flash point (°C):	>80 (closed cup)
Viscosity (Centipoise at 75°F/25°C):	280
Specific gravity (g/cm ³ at 75°F/25°C):	1.07
OH Value (mg KOH/g):	<40
Solubility (Other):	Miscible with most esters, glycols and ketones
Shelf-Life (75°F/25°C):	12 months in unopened container

Storage and Disposal

SnapCure™ 1020 should be stored in sealed containers in a cool, dry place. Contamination with foreign materials (including moisture) may adversely affect the performance and processability of *SnapCure™ 1020*. For details on handling, storage and disposal of this compound, please refer to the most recent issue of the Materials Safety Data Sheet.



SnapCure™ 1030

Product Description

SnapCure™ 1030 (Stock# H30500) is a reactive, proprietary zirconium chelate dissolved in a reactive diol. It is sensitive to moisture. The catalyst is soluble in most organic solvents and dissolves to produce a clear, pale yellow solution.

Applications

SnapCure™ 1030 is a catalyst designed for use in polyurethane elastomers. It is selective towards the gelling reaction, generating very low water ("blow") reaction. Due to its low colour it is especially suitable for colour-sensitive applications. Typical addition levels are from 0.03phpp up to 3.0phpp depending on the desired reaction time and application.

SnapCure™ 1030 gives delayed open times ("pot life") in polyester polyol elastomers and the excess solvent reacts into the polyurethane leaving no residue.

Physical and Chemical Properties

Appearance:	Pale yellow liquid
Zirconium content (wt%):	11.07
Flash point (°C):	74
Viscosity (Poise at 75°F/25°C):	29.3
Specific gravity (g/cm ³ at 75°F/25°C):	1.141
OH Value (mg KOH/g):	140
Solubility (Other):	Miscible with most esters, glycols and ketones
Shelf-Life (75°F/25°C):	12 months in unopened container

Storage and Disposal

SnapCure™ 1030 should be stored in sealed containers in a cool, dry place. Contamination with foreign materials (including moisture) may adversely affect the performance and processability of *SnapCure™ 1030*. For details on handling, storage and disposal of this compound, please refer to the most recent issue of the Materials Safety Data Sheet.



SnapCure™ 1040

Product Description

SnapCure™ 1040 (Stock# **H30790**) is a reactive, proprietary zirconium chelate dissolved in excess chelate. It is sensitive to moisture. The catalyst is soluble in most organic solvents and dissolves to produce a clear solution.

Applications

SnapCure™ 1040 is a catalyst designed for use in polyurethane elastomers. It is selective towards the gelling reaction, generating very low water ("blow") reaction. Due to its low colour it is especially suitable for colour-sensitive applications. Typical addition levels are from 0.03phpp up to 3.0phpp depending on the desired reaction time and application.

SnapCure™ 1040 is specifically designed to give delayed open times ("pot life") in polyester polyol elastomers. The open time can be controlled by changing the catalyst dosage.

Physical and Chemical Properties

Appearance:	Pale yellow liquid
Zirconium content (wt%):	8.8
Flash point (°C):	75 (closed cup)
Viscosity (Poise at 75°F/25°C):	150
Specific gravity (g/cm ³ at 75°F/25°C):	1.10
OH Value (mg KOH/g):	110
Solubility (Other):	Miscible with most esters, glycols and ketones
Shelf-Life (75°F/25°C):	12 months in unopened container

Storage and Disposal

SnapCure™ 1040 should be stored in sealed containers in a cool, dry place. Contamination with foreign materials (including moisture) may adversely affect the performance and processability of *SnapCure™ 1040*. For details on handling, storage and disposal of this compound, please refer to the most recent issue of the Materials Safety Data Sheet.



SnapCure™ 3010

Product Description

SnapCure™ 3010 (Stock# **H30251**) is a reactive proprietary titanium chelate dissolved in alcohol. It is sensitive to moisture. The catalyst is soluble in most organic solvents and dissolves to produce a clear red solution.

Applications

SnapCure™ 3010 is a reactive pre-polymer catalyst designed for the manufacture of quasi, full and one-shot pre-polymers (1-28% NCO). It is suitable for use in aliphatic and aromatic isocyanates. The catalyst can be added directly to the formulation or premixed with a variety of polyols. Typical addition levels are 0.01 – 0.1pph polyol. In certain reactive applications lower addition levels may be required to control the exotherm.

Pre-polymers manufactured using *SnapCure™ 3010* exhibit excellent viscosity at elevated temperatures but a colour change may occur.

Physical and Chemical Properties

Appearance:	Red Liquid
Titanium content (%):	8.9
Flash point (°C):	13 (closed cup)
Viscosity (Centipoise at 75°F/25°C):	3
Specific gravity (g/cm ³ at 75°F/25°C):	1.03
OH Value (mg KOH/g):	320
Solubility (Other):	Miscible with most esters, glycols and ketones
Shelf-Life (75°F/25°C):	12 months in unopened container

Storage and Disposal

SnapCure™ 3010 should be stored in sealed containers and protected from foreign materials. Contamination with foreign materials may adversely affect the performance and processability of *SnapCure™ 3010*. For details on handling, storage and disposal of this compound, please refer to the most recent issue of the Materials Safety Data Sheet.



SnapCure™ 3020

Product Description

SnapCure™ 3020 (Stock# **H30922**) is a reactive proprietary zirconium chelate with less than 2% alcohol solvent. It is sensitive to moisture. The catalyst is soluble in most organic solvents and dissolves to produce a clear solution.

Applications

SnapCure™ 3020 is a highly active zirconium pre-polymer catalyst designed to be used in one-shot pre-polymers (<5% NCO). It is particularly suitable for use in aliphatic isocyanates due to low colour formation (can also be used in aromatic isocyanates). The catalyst can be added directly to the formulation or premixed with a variety of polyols. Typical addition levels are 0.01 – 0.1pph polyol. In certain reactive applications lower addition levels may be required to control the exotherm.

Physical and Chemical Properties

Appearance:	Pale yellow liquid
Zirconium content (%):	13.8
Flash point (°C):	>80 (closed cup)
Viscosity (Centipoise at 75°F/25°C):	290
Specific gravity (g/cm ³ at 75°F/25°C):	1.07
OH Value (mg KOH/g):	<40
Solubility (Other):	Miscible with most esters, glycols and ketones
Shelf-Life (75°F/25°C):	12 months in unopened container

Storage and Disposal

SnapCure™ 3020 should be stored in sealed containers and protected from foreign materials. Contamination with foreign materials may adversely affect the performance and processability of *SnapCure™ 3020*. For details on handling, storage and disposal of this compound, please refer to the most recent issue of the Materials Safety Data Sheet.



SnapCure™ 3030

Product Description

SnapCure™ 3030 (Stock# **H30352**) is a reactive proprietary zirconium chelate. It is sensitive to water. The catalyst is soluble in most organic solvents and dissolves to produce a clear solution.

Applications

SnapCure™ 3030 is a zirconium pre-polymer catalyst designed to be used for manufacturing quasi, full and one-shot pre-polymers (1-28% NCO). This catalyst has exceptional stability to high NCO content pre-polymers. It is suitable for use in aliphatic and aromatic isocyanates. The catalyst can be added directly to the formulation, premixed with a variety of polyols or added directly to the liquid isocyanate. Typical addition levels are 0.01 – 0.1pph polyol. In certain reactive applications lower levels may be required to control the exotherm.

Pre-polymers manufactured using *SnapCure™ 3030* exhibit excellent viscosity and colour stability.

Physical and Chemical Properties

Appearance:	Pale yellow liquid
Zirconium content (%):	10.5
Flash point (°C):	53 (closed cup)
Viscosity (Centipoise at 75°F/25°C):	22
Specific gravity (g/cm ³ at 75°F/25°C):	1.16
OH Value (mg KOH/g):	130
Solubility (Other):	Miscible with most esters, glycols and ketones
Shelf-Life (75°F/25°C):	12 months in unopened container

Storage and Disposal

SnapCure™ 3030 should be stored in sealed containers and protected from foreign materials. Contamination with foreign materials may adversely affect the performance and processability of *SnapCure™ 3030*. For details on handling, storage and disposal of this compound, please refer to the most recent issue of the Materials Safety Data Sheet.