



PVC Additives

An extensive range to  
improve processability and  
characteristics of  
PVC products

# Product range selection guide

Type		Floorings	Semi-rigid/flexible films	Artificial leathers	Wall papers	Plastisols	Flexible profiles	Wires and cables	Food contacts	Medical	Rigid films	Rigid plates	Pipes	Fittings	Window profiles	Automotive
<b>Solid Mixed Metal Stabilizers &amp; Calcium Organic Stabilizers</b>	SONGSTAB™ CZ-SC320						■	■								■
	SONGSTAB™ CZ-SC490						■	■								■
	SONGSTAB™ CZ-SC590						■	■								■
	SONGSTAB™ CZ-SC900						■	■								■
	SONGSTAB™ CZ-SC940						■	■								■
	SONGSTAB™ CZ-S39						■	■	■							■
CaZn	SONGSTAB™ CZ-S36	■					■									
	SONGSTAB™ CZ-S303	■					■									
	SONGSTAB™ CZ-S73	■	■				■									
	SONGSTAB™ CZ-S80	■	■				■									
	SONGSTAB™ CZ-SM20						■		■	■						
	SONGSTAB™ CZ-SM30						■		■	■						
	SONGSTAB™ CZ-SP180												■			
	SONGSTAB™ CZ-SP600												■			
	SONGSTAB™ CZ-SP610												■			
	SONGSTAB™ CZ-SP400												■			
SONGSTAB™ CO-SP100												■				
SONGSTAB™ CO-SP200												■				
SONGSTAB™ CZ-SF300													■			
SONGSTAB™ CZ-SF400													■			
SONGSTAB™ CZ-SF600													■			
SONGSTAB™ CZ-SS370												■				
SONGSTAB™ CZ-SW921															■	
SONGSTAB™ CZ-SW955															■	
SONGSTAB™ CZ-SC59			■					■								■
SONGSTAB™ CZ-SA20			■													■
SONGSTAB™ KS-S81	■		■													

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Type		Floorings	Semi-rigid/flexible films	Artificial leathers	Wall papers	Plastisols	Flexible profiles	Wires and cables	Food contacts	Medical	Rigid films	Rigid plates	Pipes	Fittings	Window profiles	Automotive
<b>Liquid Mixed Metal Stabilizers</b>	BaCdZn	SONGSTAB™ BC-L509	■				■									
		SONGSTAB™ BC-L528		■			■									
		SONGSTAB™ BC-L530		■			■									
		SONGSTAB™ BC-L540		■			■									
	BaZn	SONGSTAB™ BZ-L116	■	■	■		■									
		SONGSTAB™ BZ-L155	■	■	■		■									
		SONGSTAB™ BZ-L201	■	■	■		■									
		SONGSTAB™ BZ-L219	■	■	■		■									
		SONGSTAB™ BZ-L228	■	■	■		■									
		SONGSTAB™ BZ-L300	■	■	■		■									■
		SONGSTAB™ BZ-L500	■	■	■		■									■
		SONGSTAB™ BZ-L501	■	■	■		■									■
		SONGSTAB™ BZ-LP608	■		■		■									
		SONGSTAB™ BZ-LP609	■		■		■									
		SONGSTAB™ BZ-LP700	■		■		■									■
		SONGSTAB™ BZ-LP701	■		■		■									■
		SONGSTAB™ KS-L806	■		■											
	Kickers	SONGSTAB™ KP-L191	■		■	■	■									
		SONGSTAB™ KP-L900	■		■	■	■									
		SONGSTAB™ KP-L901	■		■	■	■									
	CaZn	SONGSTAB™ CZ-LF420		■			■	■	■							
		SONGSTAB™ CZ-LP600	■	■	■	■	■									

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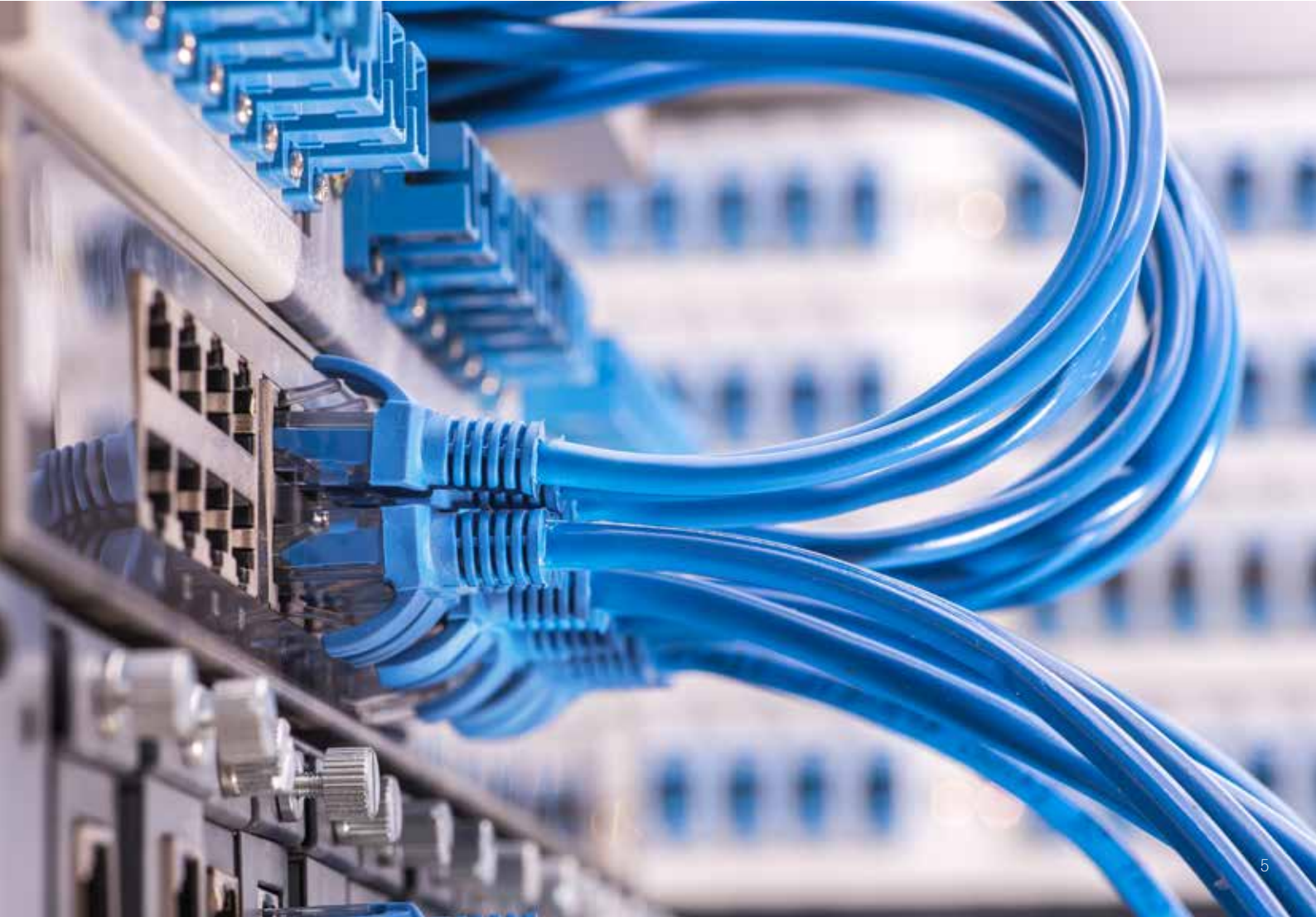
Type		Floorings	Semi-rigid/flexible films	Artificial leathers	Wall papers	Plastisols	Flexible profiles	Wires and cables	Food contacts	Medical	Rigid films	Rigid plates	Pipes	Fittings	Window profiles	Automotive	
<b>Organo-Tin Stabilizers</b>	Methylin	SONGSTAB™ MT-800							■	■	■		■	■			
		SONGSTAB™ MT-800D							■	■	■		■	■			
		SONGSTAB™ MT-830										■		■	■		
	Butyltin	SONGSTAB™ BT-107N										■		■	■		
		SONGSTAB™ BT-731										■		■	■		
		SONGSTAB™ TM-506										■		■	■		
		SONGSTAB™ TM-600P										■		■	■		
Octyltin	SONGSTAB™ OT-713R							■	■	■		■	■				

<b>Co-Stabilizers</b>	SONGSTAB™ SB-S20	■	■	■		■										■
	SONGSTAB™ SB-L102	■	■	■		■										■
	SONGSTAB™ AC-215P	■		■	■	■										■
	SONGSTAB™ PI-311	■	■	■		■	■				■					
	SONGSTAB™ E-700	■	■	■	■	■	■	■	■	■						■

<b>Lubricants</b>	SONGSTAB™ BS								■		■					
	SONGSTAB™ SL-29		■						■		■					
	SONGSTAB™ SL-31 (FOR CPVC)												■	■		
	SONGSTAB™ SL-40								■		■					
	SONGSTAB™ SL-101								■		■					

# Product range selection guide

	Hose pipes	Artificial leathers	Sheets	Electrical wires and cables	Gloves	Films	Wallpapers	Refrigerator sealing strips	Food packaging materials
<b>Plasticizers</b>									
SONGCIZER™ DOA	■	■	■					■	■
SONGCIZER™ TOTM	■			■					
SONGCIZER™ P-900	■		■	■	■	■		■	
SONGCIZER™ P-1500	■		■	■	■	■		■	
SONGCIZER™ P-2600	■		■	■	■	■		■	
SONGCIZER™ P-2600S	■		■	■	■	■		■	
SONGCIZER™ P-2700	■		■	■	■	■		■	
SONGCIZER™ P-2800	■		■	■	■	■		■	
SONGCIZER™ P-3000	■		■	■	■	■	■	■	



# Application Guide

Product name	Type	Product form	Dosage [Phr]	Characteristics							Remarks
				Initial color	Long-term stability	Transparency	Plate-out	Weatherability	Lubricity	Low odor	
<b>Pipes (rigid)</b>											
SONGSTAB™ CZ-SP180	CaZn	PW	3.0 ~ 4.0	■	■	○	■	■	■	■	General pipes
SONGSTAB™ CZ-SP600	CaZn	PW	3.0 ~ 4.0	■	■	—	■	■	■	■	General pipes
SONGSTAB™ CZ-SP610	CaZn	PW	3.0 ~ 4.0	■	■	—	■	■	■	■	General pipes
SONGSTAB™ CZ-SP400	CaZn/Sn	PW	3.0 ~ 4.0	■	■	○	■	■	■	○	General pipes
SONGSTAB™ CO-SP100	COS	PW	3.0~4.0	■	■	—	■	■	■	■	General pipes Calcium Organic based Stabilizer
SONGSTAB™ CO-SP200	COS	PW	3.0~4.0	■	■	—	■	■	—	■	Core stabilizer for CPVC pipes Calcium Organic based Stabilizer
<b>Fittings (rigid)</b>											
SONGSTAB™ CZ-SF300	CaZn	PW	2.5~3.5	■	■	—	■	■	■	■	General fittings
SONGSTAB™ CZ-SF400	CaZn/Sn	PW	3.0~7.0	■	■	—	■	■	■	○	Fittings
SONGSTAB™ CZ-SF600	CaZn/Sn	PW	3.0~7.0	■	■	—	■	■	■	○	Fittings
<b>Plates and Sheets (rigid)</b>											
SONGSTAB™ CZ-SS370	CaZn	PW	3.0~4.0	■	■	○	■	■	■	■	Rigid foam plates and sheets
<b>Window Profiles (rigid)</b>											
SONGSTAB™ CZ-SW921	CaZn	PW	3.0~5.0	■	■	—	■	■	■	■	Window profiles
SONGSTAB™ CZ-SW955	CaZn	PW	3.0~5.0	■	■	—	■	■	■	■	Window profiles

Very good
  Good
  Satisfactory
  Poor
  Very poor

# Application Guide

Product name	Type	Product form	Dosage [Phr]	Characteristics							Remarks
				Initial color	Long-term stability	Transparency	Plate-out	Weatherability	Lubricity	Low odor	
<b>Cables</b>											
SONGSTAB™ CZ-SC320	CaZn	PW	3.0 ~ 6.0								70°C wires & cables
SONGSTAB™ CZ-SC490	CaZn	PW	3.0 ~ 6.0								90/105°C wires & cables
SONGSTAB™ CZ-SC590	CaZn	PW	3.0 ~ 6.0								90/105°C wires & cables
SONGSTAB™ CZ-SC900	CaZn	PW	8.0 ~ 15.0								105/125°C wires & cables
SONGSTAB™ CZ-SC940	CaZn	PW	8.0 ~ 15.0								105/125°C wires & cables & insulation tapes
SONGSTAB™ CZ-S39	CaZn	PW	3.0 ~ 6.0								Transparent wires & cables General transparent extrusion

Very good   
 Good   
 Satisfactory   
 Poor   
 Very poor

# Application Guide

Product name	Type	Product form	Dosage [Phr]	Characteristics							Remarks
				Initial color	Long-term stability	Transparency	Plate-out	Weatherability	Lubricity	Low odor	
<b>Calendering &amp; Extrusion (flexible - solid products)</b>											
SONGSTAB™ CZ-S36	CaZn	PW	3.0 ~ 5.0								Flooring Highly filled PVC tiles
SONGSTAB™ CZ-S39	CaZn	PW	3.0 ~ 6.0								Transparent application
SONGSTAB™ CZ-S73	CaZn	PW	1.5 ~ 2.0								General purpose Transparent application
SONGSTAB™ CZ-S80	CaZn	PW	1.5 ~ 2.0								General purpose High transparency
SONGSTAB™ CZ-SM20	CaZn	PW	0.5 ~ 1.5								Medical application Synergetic effect with ESBO
SONGSTAB™ CZ-SM30	CaZn	PW	0.5 ~ 1.5								Medical application Synergetic effect with ESBO Good initial color
<b>Calendering &amp; Extrusion (flexible &amp; semi rigid - liquid products)</b>											
SONGSTAB™ BC-L509	BaCdZn	LQ	2.0 ~ 4.0								General purpose Transparent
SONGSTAB™ BC-L528	BaCdZn	LQ	2.0 ~ 4.0								General purpose Highly filled / pigmented
SONGSTAB™ BC-L530	BaCdZn	LQ	2.0 ~ 4.0								General purpose High long-term stability
SONGSTAB™ BC-L540	BaCdZn	LQ	2.0 ~ 4.0								General purpose High long-term stability
SONGSTAB™ BZ-L116	BaZn	LQ	2.0 ~ 4.0								Flexible/semi-rigid film & profile High long term stability
SONGSTAB™ BZ-L155	BaZn	LQ	2.0 ~ 4.0								Flexible/semi-rigid film & profile High transparent (glass clear)
SONGSTAB™ BZ-L201	BaZn	LQ	2.0 ~ 4.0								Flexible & profile Good price-performance Translucent or pigmented application
SONGSTAB™ BZ-L219	BaZn	LQ	2.0 ~ 4.0								Flexible film & profile Highly filled & pigmented
SONGSTAB™ BZ-L228	BaZn	LQ	2.0 ~ 4.0								General purpose

Very good  
 Good  
 Satisfactory  
 Poor  
 Very poor

# Application Guide

Product name	Type	Product form	Dosage [Phr]	Characteristics							Remarks
				Initial color	Long-term stability	Transparency	Plate-out	Weatherability	Lubricity	Low odor	
SONGSTAB™ BZ-L300	BaZn	LQ	2.0 ~ 4.0	■	■	■	■	■	■	■	Flexible/semi-rigid film & profile Low VOCs
SONGSTAB™ BZ-L500	BaZn	LQ	2.0 ~ 4.0	■	■	■	■	■	■	■	Flexible/semi-rigid film & profile EU Reach compliance Low odor
SONGSTAB™ BZ-L501	BaZn	LQ	2.0 ~ 4.0	■	■	■	■	■	■	■	Flexible/semi-rigid film & profile EU Reach compliance
SONGSTAB™ KS-L806	Kicker	LQ	2.0 ~ 4.0	■			■		■	■	Calendering foam layer Flooring / artificial leather
SONGSTAB™ CZ-LF420	CaZn	LQ	1.0~1.5	■	■	■	■	■	■	■	Food-wrap film (FDA grade)

## Automotive Applications

SONGSTAB™ BZ-L300	BaZn	LQ	2.0~4.0	■	■	■	■	■	■	■	Calendering
SONGSTAB™ CZ-SC59	CaZn	PW	1.5~2.5	■	■	■	■	■	■	■	Artificial leather Semi-rigid & flexible calendering and extrusion
SONGSTAB™ CZ-SA20	CaZn	PW	3.0~4.0	■	■	■	■	■	■	■	Artificial leather (good long term heat properties at low temperature)
SONGSTAB™ SB-S20	Booster	PW	0.2~1.0	■		○	■	■		■	Artificial leather Semi-rigid & flexible calendering and extrusion
SONGSTAB™ SB-L102	Booster	LQ	0.2~1.0	■		○	■	■		■	Artificial leather (good long term heat properties)

## Flooring (flexible)

SONGSTAB™ CZ-S73	CaZn	PW	1.5 ~ 2.0	■	■	■	■	■	■	■	Top layer (transparent)
SONGSTAB™ CZ-S80	CaZn	PW	1.5 ~ 2.0	■	■	■	■	■	■	■	Top layer (transparent)
SONGSTAB™ KS-S81	CaZn	PW	2.0 ~ 3.0	■		■				■	Foam layer
SONGSTAB™ CZ-S303	CaZn	PW	3.0 ~ 5.0	○	■	—	■	■	■	■	SPC (stone-plastic composite)
SONGSTAB™ CZ-S36	CaZn	PW	3.0 ~ 5.0	■	■	—	■	■	■	■	SPC (stone-plastic composite, high performance)

Very good
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  Satisfactory
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  Very poor

# Application Guide

Product name	Type	Product form	Dosage [Phr]	Characteristics								Remarks
				Initial color	Long-term stability	Transparency	Plate-out	Weatherability	Lubricity	Low odor		
<b>Plastisol</b>												
SONGSTAB™ BZ-LP608	BaZn	LQ	2.0 ~ 4.0	■	■	■		■		■	General purpose	
SONGSTAB™ BZ-LP609	BaZn	LQ	2.0 ~ 4.0	■	■	■		■		■	High performance	
SONGSTAB™ BZ-LP700	BaZn	LQ	2.0 ~ 4.0	■	■	■		■		■	General purpose EU Reach compliance Low odor	
SONGSTAB™ BZ-LP701	BaZn	LQ	2.0 ~ 4.0	■	■	■		■		■	General purpose EU Reach compliance	
SONGSTAB™ CZ-LF420	CaZn	LQ	1.5 ~ 4.0	■	■	■		■		■	Food grade	
SONGSTAB™ CZ-LP600	CaZn	LQ	2.0 ~ 4.0	■	■	■		■		■	EU Reach compliance	
<b>Kickers (plastisol)</b>												
SONGSTAB™ KP-L191	KZn	LQ	2.0 ~ 4.0	■						■	Foam kicker	
SONGSTAB™ KP-L900	NaZn	LQ	2.0 ~ 4.0	■						■	Foam kicker	
SONGSTAB™ KP-L901	KZn	LQ	2.0 ~ 4.0	■						■	Fast kicker Good price-performance balance	
<b>Tin Stabilizers</b>												
SONGSTAB™ MT-800	Methyltin mercaptide	LQ	1.5 ~ 2.5	■	■	■	■	○	—	—	General purpose product	
SONGSTAB™ MT-800D	Methyltin mercaptide	LQ	1.5 ~ 2.5	■	■	■	■	○	—	—	Better long-term heat stability	
SONGSTAB™ MT-830	Methyltin mercaptide	LQ	1.0 ~ 2.0	■	■	■	■	○	—	—	Boosted product (high Sn content)	
SONGSTAB™ BT-107N	Butyltin mercaptide	LQ	2.0 ~ 3.0	■	■	■	■	○	○	—	General purpose	
SONGSTAB™ BT-731	Butyltin mercaptide	LQ	2.0 ~ 3.0	■	■	■	■	○	○	—	General purpose	
SONGSTAB™ TM-506	Butyltin carboxylate	LQ	2.5 ~ 3.5	■	■	■	■	○	○	■	Good weatherability	
SONGSTAB™ TM-600P	Butyltin carboxylate	PW	1.0 ~ 2.0	■	■	■	■	○	○	■	C-PVC application Polymeric tin maleate Smoke suppressant for ABS	
SONGSTAB™ OT-713R	Octyltin mercaptide	LQ	2.5 ~ 3.5	■	■	■	■	○	○	—	General purpose	
SONGSTAB™ TM-710M	Octyltin carboxylate	LQ	1.0~2.0	■	■	■	■	○	○	■	Good weatherability	

# Application Guide

Product name	Type	Product form	Dosage [Phr]	Remarks
<b>Co-Stabilizers</b>				
SONGSTAB™ SB-L102	Booster	LQ	0.2 ~ 1.0	Long-term heat stability at low temperature Amine gas resistance Artificial leather Semi-rigid & flexible calendering and extrusion
SONGSTAB™ SB-S20	Booster	PW	0.2 ~ 1.0	Long-term heat stability at low temperature Amine gas resistance Artificial leather (good long-term heat properties)
SONGSTAB™ AC-215P	Acrylic	LQ	0.5 ~ 2.0	Cell controller, combination with foam kickers Plastisol (flooring, artificial leather, wall covering)
SONGSTAB™ Pi-311	Phosphite	LQ	0.3 ~ 1.0	Flexible, semi-rigid calendering and extrusion Plastisol
SONGSTAB™ E-700	ESBO	LQ	0.0 ~ 5.0	Flexible, semi-rigid calendering and extrusion Plastisol
<b>Lubricants</b>				
SONGSTAB™ BS	Butyl stearate	LQ	0.5 ~ 1.5	Internal lubricant Calendering and extrusion
SONGSTAB™ SL-29	Lubricants complex	PW	0.3 ~ 1.5	External lubricant complex Good transparency Rigid calendering
SONGSTAB™ SL-31	Lubricants complex	PW	2.5 ~ 3.5	External lubricants complex for C-PVC pipes
SONGSTAB™ SL-40	Lubricants complex	PW	0.3 ~ 1.5	External lubricant complex Rigid extrusion
SONGSTAB™ SL-101	Lubricant complex	PW	0.3 ~ 1.5	Internal lubricant complex Rigid calendering and extrusion

Very good
  Good
  Satisfactory
  Poor
  Very poor



# Plasticizers

	Color (APHA)	Acid value (mgKOH/g)	Heat loss (125°C 3hours)	Volume resistivity (30°C)	Refractive index (25°C)	Viscosity (c p s/25°C)	Features
<b>SONGCIZER™ DOA</b> Di(2-ethylhexyl) adipate CAS NO. 103-23-1 LQ	< 50	< 0.1	< 0.1	$> 1 \times 10^{11}$	1444 ~ 1450	–	Resistant to cold temperatures Good compatibility Phthalate free
<b>SONGCIZER™ TOTM</b> Tri-2-ethylhexyltrimellitate CAS NO. 3319-31-1 VL	< 120	< 0.2	< 0.1	$> 5 \times 10^{11}$	1481 ~ 1487	–	Heat resistant Low volatility Migration resistance
<b>SONGCIZER™ P-900</b> Poly di(2-ethyl hexyl) 1,4-cyclohexanedimethanol adipate CAS NO. 1574656-80-6 VL	< 500	< 3.0	< 0.1	–	–	500 ~ 1500	No phthalate Medium viscosity Migration resistant
<b>SONGCIZER™ P-1500</b> Polydi(2-ethylhexyl) glycoladipate CAS NO. 3319-31-1 VL	< 300	< 1.0	< 0.5	–	1454 ~ 1460	100 ~ 200	No phthalate Low viscosity
<b>SONGCIZER™ P-2600</b> Polydi(2-ethylhexyl) glycoladipate CAS NO. 73018-26-5 VL	< 300	< 2.0	< 0.5	–	1462 ~ 1468	2700 ~ 3500	No phthalate Medium viscosity
<b>SONGCIZER™ P-2600S</b> Poly di (2-ethyl hexyl) 1,4-cyclohexanedimethanol adipate CAS NO. 1574656-80-6 VL	< 500	< 3.0	< 0.1	–	–	500 ~ 1500	No phthalate Medium viscosity
<b>SONGCIZER™ P-2700</b> Polydi(2-ethylhexyl) glycoladipate CAS NO. 73018-26-5 VL	< 300	< 2.0	< 0.5	–	1466 ~ 1467	4000 ~ 6000	No phthalate High viscosity Migration resistant
<b>SONGCIZER™ P-2800S</b> Poly di (Iso-nonyl) glycoladipate CAS NO. 1404200-65-2 VL	< 400	< 2.0	< 0.5	–	1466 ~ 1467	3000 ~ 6500	No phthalate High viscosity Odorless
<b>SONGCIZER™ P-3000</b> Polydi(2-ethylhexyl) glycoladipate CAS NO. 63149-79-1 VL	< 300	< 2.0	< 0.5	–	1462 ~ 1468	2000 ~ 3200	No phthalate Medium viscosity Migration resistant

# Key to Abbreviations of Physical Forms

- **PW:** Powder
- **SL:** Solid
- **DF:** Dust Free Flow
- **SB:** Semi Bead
- **LQ:** Liquid or Molten
- **GR:** Granule

## Standard Packaging

- **PVC Stabilizers, Liquids:** Steel Drum  
IBC
- **PVC Stabilizers, Solids:** Paper Bag  
Big Bag
- **Organo-tin Stabilizers:** Steel Drum  
IBC
- **Plasticizers, Liquids:** Steel Drum  
IBC  
ISO Tank

## Transport and Storage

As a general guideline, we recommend storing the products mentioned in this brochure in their original sealed containers in a cold and dry place. For more detailed information on a specific product, please refer to the corresponding **Technical Data Sheet**.

By law, a number of chemical products must be labeled in respect of transport, storage and handling. Thus corresponding care is a prerequisite for their appropriate handling. Furthermore, local legal regulations may apply.



Detailed information is given in the respective **Safety Data Sheets**.

## About SONGWON

A leader in the development, production and supply of specialty chemicals, SONGWON's products touch your life every day, everywhere. Since 1965, we've been driving innovation, partnering for progress and paving the way for a better more sustainable tomorrow with 360° customized solutions.

Headquartered in South Korea, SONGWON is one of the largest manufacturer of polymer stabilizers worldwide. With Group companies and world-class manufacturing facilities across the globe, we are dedicated to providing customers in over 60 countries with high-performance products that meet their individual needs and the best levels of service.

For further information, please go to:  
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