



The New Name in Vinyl Additives

A decorative graphic at the bottom of the page consisting of two overlapping, curved, abstract shapes. The top shape is a light blue color, and the bottom shape is a vibrant green color. They curve upwards from the bottom left towards the right side of the page.

A New Leader

Galata Chemicals, more than just a change in name

Galata Chemicals is a global marketer of specialty chemicals and products that service the PVC and associated industries. Building on the company's valuable intellectual property and over 40 years operating experience, Galata Chemicals has the people, the products and the 'know how' to create optimized solutions that will add value to their customers' products and help them grow.



The information in this brochure is designed to provide a general overview of the wide range of products available from our US facility. Please refer to Galata's other brochures for additional information on products from our European facility and for product performance data classified by application. For more detailed product information and literature on specific applications and product groups, please contact Galata.

Trusted Brands

Galata offers a wide range of novel additive solutions. Product and technical innovation is core to the company strategy, driving the development of new additives for its traditional customer base and allowing expansion into new markets.

Building on the portfolio of trusted brands, new product development focuses on delivering greener and more sustainable solutions to the market. These include boosters to help optimize the cost/performance profile of heat stabilizers in PVC formulations; high performance, heavy-metal-free organic based stabilizers for flexible PVC applications; a new generation of octyl tin stabilizers; REACH* friendly liquid mixed metals for flexible and semi-rigid PVC applications; high performance epoxidized soybean oil plasticizers and new impact modifiers for PVC and engineering polymers.

*Registration, Evaluation & Authorization of Chemicals



Galata Chemicals LLC production site at Taft, Louisiana, USA

Management System
Certified by



ISO 9001:2008
Certificate Number QSR-152

Production, sales and technical service around the globe

With a strong, global technical service and sales footprint, and principal production facilities in Taft, Louisiana, USA and Lampertheim, Germany, the company is backward integrated into the key intermediates for both its' tin and mixed metal stabilizers, allowing customers to benefit from a consistent, secure and reliable product supply partner.

The vinyl additives product range:

- Mark® Tin Heat Stabilizers
- Mark® Mixed Metal Heat Stabilizers
- Mark® OBS® Heavy-Metal-Free Stabilizers
- Mark® & Weston® Liquid Phosphite Esters
- Mark® Inhibitors
- Mark® Kickers and Boosters
- Marklube® Lubricants
- Drapex® Epoxidized Compounds
- Markstat® Antistatic Agents
- Blendex® and Royaltuf® Polymer Modifiers
- Actafoam® and Celogen® Chemical Foaming Agents

Typical PVC applications:

- Credit and smart cards
- Rigid and flexible packaging
- Rigid pipes and pipe fittings
- Rigid profiles and wood composites
- Vinyl siding
- Roofing, flooring and wall coverings
- Pool liners and geo-membranes
- Coated fabrics and tarpaulins
- Artificial leather
- Medical tubes and packaging
- Toys
- Flexible hoses
- Wire and cable

Heat Stabilizers

Mark® Methyltin Mercaptides

Mark® Methyltin Mercaptides represent the standard in PVC pipe and profile extrusion and injection molding. End uses include PVC pipe and pipe fittings used in potable-water, DWV, conduit and duct applications, and rigid profiles applications such as vinyl siding and windows.

Application Recommendation:

General purpose extrusion, injection molding and calendaring: Mark® 1900

FDA extrusion, blow molding, food packaging: Mark® 1984E, Mark® 1995

Emphasis on early color hold: Mark® 2912, 1921E, Mark® 1993

Potable water applications: Mark® 1925, Mark® 1939, Mark® 1941, Mark® 2903, Mark® 1971, Mark® 2910

Calendered rigid opaque, credit card stock: Mark® 1998, Mark® 2912

Mark® Butyltin Mercaptides

Butyltin mercaptides combine stability performance with added lubricity and reduced volatility to make excellent heat stabilizers for technical applications. They have proven to be very effective in PVC processing for many years.

Application Recommendations:

General purpose: Mark® 292, Mark® 2288, Mark® 2225, Mark® 1367

Emphasis on early color hold: Mark® 1367, Mark® 1924

CPVC: Mark® 292

Rigid foam: Mark® 2225

High transparency: Mark® A

Solid form: Mark® 2255

Weatherable extrusion: Mark® 2284A, Mark® 3173

Mark® Methyltin Mercaptides

Product Name	Supply form	Approval*
Mark® 1900	L	
Mark® 1925	L	NSF
Mark® 1939	L	NSF
Mark® 1941	L	NSF
Mark® 1971	L	NSF
Mark® 1984E	L	EU/FDA
Mark® 1993	L	
Mark® 1995	L	EU/FDA
Mark® 1998	L	
Mark® 2903	L	NSF
Mark® 2910	L	NSF

Mark® Butyltin Mercaptides

Product Name	Supply form	Approval*
Mark® 17MT	L	
Mark® 292	L	
Mark® 1367	L	
Mark® 1924	L	
Mark® 2225	L	
Mark® 2255	S	
Mark® 2284A	L	
Mark® 2288	L	
Mark® 3173	L	
Mark® A	L	



Supply form: L - Liquid, P - Paste, S - Solid

Heat Stabilizers

Mark® Butyltin Carboxylate and Mercaptide

These blends combine the optimal combination of heat stability, light stability and weathering resistance in PVC for extrusion and injection molding.

Mark® Butyltin Carboxylates

Butyltin carboxylates provide crystal-clarity and excellent light stability in packaging and outdoor applications.



Mark® Octyltin Mercaptides

Octyl tin mercaptides impart excellent transparency and heat stability. In many countries they are approved for rigid non-toxic food packaging materials.

Application Recommendations:

General purpose: Mark® 17 MOK, Mark® 3101S

Rigid film: Mark® 17 MOK, Mark® 3101S

Blow molding: Mark® 3112S

Gamma sterilization: Mark® 3062

Mark® Butyltin Carboxylate and Mercaptide

Product Name	Supply form	Approval*
Mark® 2270F	L	
Mark® T 634	L	

Mark® Butyltin Carboxylates

Product Name	Supply form	Approval*
Mark® 1038	L	
Mark® 2100A	S	
Mark® 2289	L	
Mark® DBTL	L	



Mark® Octyltin Mercaptides

Product Name	Supply form	Approval*
Mark® 17 MOK	L	EU/FDA
Mark® 3062	L	FDA
Mark® 3101S	L	FDA
Mark® 3112S	L	FDA
Mark® OTM-S	L	

* The approvals listed in this brochure (EU/FDA/NSF) only provide an overview and may not be valid for the specific application or respective product. Please contact Galata for assistance.

Heat Stabilizers



Mark® Calcium-Zinc Stabilizers

Galata provides a wide range of liquid, paste and solid calcium-zinc stabilizers for general purpose use as well as in non-toxic, food contact, kosher and medical applications ^(†)^(††). Their use is wide in scope, and go towards a large variety of plasticized and rigid articles.

Application Recommendations:

General purpose, flexible: Mark® 3023, Mark® 152, Mark® 152S, Mark® 1034

Toys and plastisols: Mark® 1495C, Mark® 1221, Mark® 4119

Flexible injection molding: Mark® 3023, Mark® 152, Mark® QTS, Mark® 593

Filled flexible calendaring: Mark® 1146C, Mark® 6092ACM, Mark® 6105ACM

Filled flexible extrusion: Mark® 3118, Mark® 6782, Mark® 6096

Automotive instrument panels: Mark® 6092ACM

Wire and cable: Mark® 6765ACM, Mark® 6783ACM, Mark® 6784ACM

Medical applications: Mark® 1221, Mark® 4119, Mark® 3165

Rigid calendaring and injection molding: Mark® CZ 2060, Mark® CZ 2026

Rigid window profiles: Mark® CZ 2000

Gamma ray sterilization: Mark® CZ 2000

[†] Some products available as vegetable stearate and kosher. Contact for details

^{††} National regulations have to be considered prior to use in food contact and medical applications

Mark® Calcium-Zinc Stabilizers

Product Name	Supply form	Approval*
Mark® 152	P	FDA
Mark® 152S	S	FDA
Mark® 593	S	FDA
Mark® 1034	S	FDA
Mark® 1146C	S	FDA
Mark® 1221	L	
Mark® 1495C	L	
Mark® 3023	L	FDA
Mark® 3118	S	FDA
Mark® 4119	L	
Mark® 6092ACM	S	
Mark® 6096	S	
Mark® 6105ACM	S	
Mark® 6765ACM	S	
Mark® 6782	S	
Mark® 6783ACM	S	
Mark® 6784ACM	S	
Mark® CZ 2000	S	
Mark® CZ 2026	S	EU
Mark® CZ 2060	S	
Mark® QTS	P	FDA

Supply form: L - Liquid, P - Paste, S - Solid

Heat Stabilizers

Mark® Barium-Zinc Stabilizers

Galata provides the most effective range of liquid and solid barium-zinc stabilizers for semi-rigid and flexible PVC. In addition to the general recommendations included here, Galata offers many grades designed towards specific application needs. Please consult your sales and technical representative for more details.

Application Recommendations:

General purpose: Mark® 4716, Mark® 4781A, Mark® 4825

Filled flexible calendering: Mark® 4821, Mark® 4754LV

Clear flexible calendering: Mark® 4821, Mark® 4830, Mark® 4782A

Filled flexible extrusion: Mark® 4781A, Mark® 4825, Mark® 4848

Clear flexible extrusion: Mark® 4830, Mark® 4825

Injection molding: Mark® 4852, Mark® 4880, Mark® 9304, Mark® 6708, Mark® 6710

Phenol-free: Mark® 9304, Mark® 6708ACM, Mark® 6042ACM, Mark® 6710ACM, Mark® 6734

Plastisols: Mark® 2181, Mark® 4712, Mark® 4159, Mark® 4734

Roofing and pool liner membranes: Mark® 4716, Mark® 4727, Mark® 6710ACM

Wallcoverings: Mark® 4821, Mark® 9304

Automotive, non-fogging: Mark® 6042ACM, Mark® 6708ACM, Mark® 6062

Wire & cable: Mark® 6777ACM, Mark® 6734, Mark® 6710ACM

Flooring: Mark® 2181, Mark® 398

Printability: Mark® 4821, Mark® 4825

Mark® Zinc Stabilizers

Galata's zinc stabilizers are especially developed for applications requiring low phenol, odor free and long term heat stability. They are recommended for foamed, pigmented, calendered films and plastisols and as chemical foaming agent boosters in foamed PVC.

Application Recommendations:

General purpose: Mark® PL, Mark® 1232

Plastisols: Mark® 552G, Actafoam® R-3a

Booster/stabilizer: Mark® PL, Mark® 1232, Actafoam® R-3a

Mark® Barium-Zinc Stabilizers

Product Name	Supply form	Approval*
Mark® 398	L	
Mark® 2181	L	
Mark® 4159	L	
Mark® 4712	L	
Mark® 4716	L	
Mark® 4727	L	
Mark® 4734	L	
Mark® 4781A	L	
Mark® 4782A	L	
Mark® 4821	L	
Mark® 4825	L	
Mark® 4830	L	
Mark® 4848	L	
Mark® 4852	L	
Mark® 4880	L	
Mark® 6042ACM	S	
Mark® 6062	S	
Mark® 6708	S	
Mark® 6708ACM	S	
Mark® 6710	S	
Mark® 6710ACM	S	
Mark® 6734	S	
Mark® 6734	S	
Mark® 6777ACM	S	
Mark® 9304	L	

Mark® Zinc Stabilizers

Product Name	Supply form	Approval*
Actafoam® R-3a	L	
Mark® 552G	L	
Mark® 1232	L	
Mark® PL	L	

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Co-Stabilizers & Additives

Mark® OBS® Organic Based Stabilizers

The organic based heat stabilizer systems are heavy-metal-free designed according to Galata's commitment for sustainable developments and Responsible Care® program. They are free of smell, provide low fogging, low VOC. The Mark® OBS® systems offer a broad application range for flexible PVC and feature excellent initial color, good long term heat stability and transparency.

Application Recommendations:

Wall covering, flooring: Mark® OBS® 1100, Mark® OBS® 1200, Mark® OBS® 2405 in combination with Mark® CE 325

Automotive (plastisol): Mark® OBS® 1200, Mark® OBS® 2405

Flooring (plastisol): Mark® OBS® 2302, Mark® OBS® 2305 or Mark® OBS® 2405 in combination with Mark® CE 325

Clear application (plastisol, extrusion, calendaring): Mark® OBS® 2405

Drapex® Epoxidized Compounds

Epoxy plasticizers are effective as co-stabilizers in nearly all systems. They are used to obtain a good weathering stability with BaZn or CaZn stabilizers.

Mark® Co-stabilizers and Boosters

These co-stabilizers help to enhance the performance of mixed metal and tin heat stabilizers and extend their utility for multiple product applications. Depending on the desired attribute, they are typically used to improve VOC behavior, fogging performance, long term heat stability, the color hold or the amine resistance.



Mark® OBS® Organic Based Stabilizers

Product Name	Supply form	Approval*
Mark® OBS® 1100	L	
Mark® OBS® 1200	L	
Mark® OBS® 2302	L	
Mark® OBS® 2305	L	
Mark® OBS® 2405	L	

Drapex® Epoxidized Compounds

Product Name	Supply form	Approval*
Drapex® 4.4	L	
Drapex® 6.8	L	EU/FDA

Mark® Co-stabilizers and Boosters

Product Name	Supply form	Approval*
Mark® 1709	S	
Mark® 6045ACM	S	
Mark® 6055ACM	S	
Mark® 6076ACM	S	
Mark® 6087ACM	S	
Mark® CE 325	L	
Mark® CE 345	S	EU
Mark® CE 387	S	EU
Mark® CE 583	S	EU/FDA

Supply form: L - Liquid, P - Paste, S - Solid

Co-Stabilizers & Additives



Mark® and Weston® Phosphites

The addition of phosphite co-stabilizers improves the heat stability, weathering stability and transparency to formulations using metal soap stabilizers (BaZn, CaZn or Zn). When tin mercaptides are used as stabilizers in calendaring a better melt viscosity is obtained.

Application Recommendations:

Phenol-free: Mark® CH 55, Mark® CH 302, Weston® 439, Weston® TLP

Low phenol, nonylphenol free: Mark® CH 304, Mark® CH 305

Markstat® Antistatic Agents

Surface static electricity of plastic products often results in difficulties after processing and in the use of finished goods. Antistatic agents prevent such surface electricity and diminish it by reducing the surface resistivity.

Application Recommendations:

Plasticized applications: Markstat® 51, Markstat® 60, Markstat® AL-14

Rigid applications: Markstat® AL-48a

Mark® Inhibitor

Mark® I 489 is used in printing inks/lacquers for the inhibition process to suppress locally the formation of foam.

Mark® and Weston® Phosphites

Product Name	Supply form	Approval*
Mark® CH 302	L	
Mark® TNPP	L	EU/FDA
Weston® 439	L	FDA
Weston® DPDP	L	
Weston® DPP	L	
Weston® EHDP	L	
Weston® PDDP	L	
Weston® TDP	L	
Weston® TLP	L	FDA
Weston® TPP	L	

Markstat® Antistatic Agents

Product Name	Supply form	Approval*
Markstat® 51	L	
Markstat® 60	L	
Markstat® 88	L	
Markstat® AL-14	L	FDA
Markstat® AL-48a	L	

Mark® Inhibitor

Product Name	Supply form	Approval*
Mark® I 489	L	

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Modifiers & Processing Aids

Blendex® Impact Modifiers

ABS impact modifiers in powder form are used mostly in rigid and semi-rigid PVC applications, if good low temperature impact and chemical resistance is required.

Application Recommendations:

PVC: Blendex® 3160, Blendex® 338

C-PVC: Blendex® 338

Royaltuf® Impact Modifiers

ASA or AES impact modifiers in powder form are used, when color and impact stability under UV aging and weathering are required.



Blendex® Vicat Modifiers

AMSAN based modifiers in powder form are used for PVC Vicat softening point increase. Blendex® 703 also increases the impact resistance.

Blendex® Processing Aids

SAN based processing aids provide good chemical resistance.

Application Recommendations:

Rigid injection molding and extrusion: Blendex® 5215, Blendex® 5233

Rigid blow molding: Blendex® 866

Rigid foam: Blendex® 869

Blendex® Impact Modifiers

Product Name	Supply form	Approval*
Blendex® 338	S	EU/FDA
Blendex® 3160	S	FDA

Royaltuf® Impact Modifiers

Product Name	Supply form	Approval*
Royaltuf® 945 A	S	
Royaltuf® 960 A	S	



Blendex® Vicat Modifiers

Product Name	Supply form	Approval*
Blendex® 587 S	S	
Blendex® 703	S	

Blendex® Processing Aids

Product Name	Supply form	Approval*
Blendex® 866	S	FDA
Blendex® 869	S	FDA
Blendex® 5215	S	
Blendex® 5233	S	FDA

Supply form: L - Liquid, P - Paste, S - Solid

Modifiers & Processing Aids

Blendex® Special PVC Modifiers

SAN based modifiers.

Application Recommendations:

Low gloss extrusion and injection molding: Blendex® BMAT

Actafoam® and Celogen® Chemical Foaming Agents

Actafoam® and Celogen® chemical foaming agents are used in a broad range of polymers processed between 250 - 450°F (121 - 232°C). Typical polymers include plasticized and rigid PVC, rubber, polyolefins, styrenics, thermoplastic elastomers and ABS. Products are generally selected on the basis of foaming temperature and polymer compatibility.

Application Recommendations:

Low Temperatures, LDPE, Plastisols, Rubber: Celogen® OT

General Purpose PVC: Actafoam® AZ-130

Pre-Activated: Actafoam® 780, Actafoam® 765-A, Actafoam® 754-A

Rigid PVC Extrusion, Injection Molding: Actafoam® AZRV, Actafoam® AZ-760-A

Blendex® Special PVC Modifiers

Product Name	Supply form	Approval*
Blendex® BMAT	S	EU

Actafoam® and Celogen® Chemical Foaming Agents

Product Name	Supply form	Approval*
Actafoam® 780	S	
Actafoam® AZ-130	S	FDA
Actafoam® AZ-150	S	FDA
Actafoam® AZ-1901	S	FDA
Actafoam® AZ-760-A	S	FDA
Actafoam® AZRV	S	FDA
Celogen® OT	S	FDA

+ Please be advised that Blendex® modifiers shown with FDA status are in chemical compliance with 21 Code of Federal Regulations Section 181.32 (acrylonitrile copolymers and resins) for use in repeated-use food-contact applications subject to the limitations of this regulation and any other applicable regulations. It is, however, the responsibility of the final manufacturer to determine that the finished food-contact article meets the limitations for Acrylonitrile monomer extraction as set forth in 21 CFR 181.32(b) of the Food Additive Regulations



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