



PLASTICS

PRODUCT RANGE
Germany



KRAHN CHEMIE – A STRONG PARTNER

WELCOME TO KRAHN CHEMIE. As an independent chemical distributor and sales partner to leading producers, we know that some things are simply better together. That's why we connect markets with innovations, processors with producers and questions with answers.

At KRAHN Chemie, you can find everything that a processor in the chemical industry values: a broad range of products from

top international producers, competent technical support, laboratory services and logistic solutions. We share your high standards in terms of speed, flexibility and quality – and have proudly served as your strong and reliable partner for more than 100 years.

We look forward to assisting and advising you.

■ ■ ■ [BRING IT TOGETHER]

BASESTOCKS

PRODUCT GROUP	PRODUCT NAME	PRODUCER	PRODUCT DESCRIPTION
Poly-alpha-olefin (PAO)	SpectraSyn™	ExxonMobil Chemical	Poly-alpha-olefin (PAO). Viscosities from 2-300 cST@100 °C, good thermal and oxidative stability, excellent resistance to cold temperatures as well as low volatility. PAO's are used as processing oil for the processing of polyolefins.

PLASTICIZERS

Adipates	DOA	Plastifay	Plasticizer to improve the flexibility at low temperature. Furthermore, it reduces viscosity with good dispersion properties. Food contact applications are possible.
Benzyl phthalates	Santicizer®	Valtris Specialty Chemicals	Fast fusing plasticizers with low volatility and excellent extraction resistance. Also a good compatibility with a wide range of resins.

PLASTICIZERS CONTINUED

PRODUCT GROUP	PRODUCT NAME	PRODUCER	PRODUCT DESCRIPTION
Citrates	Sucroplast ATBC	Sucroal	Bio-based plasticizer. Good compatibility with other polymers. It is applied in products with food contact, as fast fuser, but also in medical devices and compounds.
Fast fusers – Benzyl-phthalates / Carboxylates	Santicizer PLATINUM® P-1400	Valtris Specialty Chemicals	Phthalate free and fast fusing plasticizers which shows a high compatibility and efficiency, and performs by high permanence and low water solubility. Recommended for many applications, like plastisol, foam, sealant, calendaring, extrusion and films.
Hexanoates	OXSOFT® 3G8	Oxea	Specialty plasticizer with low viscosity, good UV stability, low volatility and migration. Furthermore, OXSOFT® 3G8 shows excellent results as to flexibility at very low temperatures.
Monobenzoates	Jayflex™ MB10	ExxonMobil Chemical	Low viscous fast fusing plasticizer with favorable gelation properties providing a low, constant paste viscosity and a comparatively low volatility. Also compatible in combination with other standard plasticizers.
Phosphate ester	Santicizer®	Valtris Specialty Chemicals	Specialty plasticizers offering flame retardant and smoke suppressing properties. The phosphate ester based materials are non-halogen with high plasticizing efficiency, great compatibility in multiple polymer systems.
Phthalates	Chemflexx 911P	The Chemical Company	Low volatile linear C-9 and C-11 alcohol based phthalate plasticizer. Due to its outstanding weather resistant properties and general good permanence especially suitable for outdoor and durable applications.
	Jayflex™ DINP Jayflex™ DIDP	ExxonMobil Chemical	High molecular standard plasticizer for PVC processing. Due to the branching of the alcohol chains Jayflex™ DINP and Jayflex™ DIDP have a high migration resistance and low volatility.
	Jayflex™ DIUP	ExxonMobil Chemical	High molecular special plasticizer on phthalate basis, compatible with various polymers. Due to its excellent fogging and migration values it is suitable for car interior parts and for high temperature range.
	Jayflex™ DTDP	ExxonMobil Chemical	High molecular special plasticizer, compatible with various polymers. Due to its high molecular weight and the especially low volatility, it is recommended for use in high temperature applications.
Polymeric adipates	Santicizer®	Valtris Specialty Chemicals	Polimeric plasticizer which provide outstanding migration and extraction resistance. Application in adhesives and sealants with direct food contact is possible.
	CRANE® Plast	KRAHN Chemie	
Specialty blends	OXSOFT® DUO1	Oxea	Blend of two low volatile esters. Features an excellent migration profile combined with good processability. The low viscosity of the product enables easy handling. Additionally, it offers very good low temperature properties.
	OXSOFT® DUO2	Oxea	Blend of two low volatile esters. OXSOFT® DUO2 features a further improved migration profile compared to OXSOFT® DUO1, but still the product is easy to process. Extraction resistance against various media and fogging values are excellent.
Terephthalates	Plast Soft DOTP	Plastifay	Standard plasticizer, suitable for sensitive applications with direct food contact, as well as in the toy industry and for leisure products.
Trimellitates	OXSOFT® TOTM LE OXSOFT® TOTM LE ST	Oxea	Highly permanent plasticizer, compatible with various polymers, extremely low volatility, excellent protection against calcium soaps, low fogging and good processability.

ADDITIVES

PRODUCT GROUP	PRODUCT NAME	PRODUCER	PRODUCT DESCRIPTION
Adhesion promoters	SiSiB® PC	Nanjing SiSiB Silicones	Different organo-functional silanes to improve the adhesion between the polymer matrix and anorganic filling and reinforcing materials in GFC and CFC systems as well as highly filled compounds.
Biocides	Biocheck®	Lanxess	Preservatives for protection of different plastic compounds or articles made hereof from bacterial and fungal discoloration and detrimental change in mechanical composition.
Blowing agents, chemical	Unifoam® AZ	Hebron	Pure ADCA as exothermic chemical blowing agent for fine pored and regular PVC- and polyolefin foams with a wide range of applications. Besides the standard series also a low-dust 'Ultra' series is available as well as modified grades, activated for low temperature processing.
Co-stabilizers	ESBO	Hebron	Epoxidised soybean oil. Secondary plasticizer and co-stabilizer. To be applied as a co-stabilizer because of its good heat resistance and as secondary plasticizer for PVC formulations.
Coupling agents	SiSiB® PC	Nanjing SiSiB Silicones	Vinyl silane to graft and crosslink polyethylene for the cable- and pipe industry.
Defoaming and air release additives	BYK	BYK-Chemie	Silicone free and silicone containing air release agents for unfilled, filled, foamed as well as low fogging PVC-Plastisols.
Diols	EH Diol	Gulf Chemical International	2-ethylhexanediol-1,3 as chain extender and modifying agent for PU systems.
Flame retardants	KSS-FR HES-FR	Arichem	Halogen-free formulations, especially designed for PC and PC/ABS applications, transparent and opaque, that meet the requirements of the classification UL 94 V-0.
	Santicizer®	Valtris Specialty Chemicals	Specialty plasticizers offering flame retardant and smoke suppressing properties. The phosphate ester based materials are nonhalogen with high plasticizing efficiency, great compatibility in multiple polymer systems and fast fusion in PVC applications.
Foam stabilizers	BYK®	BYK-Chemie	Foam stabilizer for mechanically blown PVC plastisols in order to obtain high resilience.
Formulations	Baeropol®	Baerlocher	Polymer-free, dust-free and tailor-made additive blends (granules or rods). Tailor-made solution for high dosing accuracy and small tolerances. Improved dispersing within the polymer.
Metal soaps	Alugel Calciumstearat Magnesiumstearat Zincum	Baerlocher	Aluminum-, calcium-, magnesium-, zinc stearates as internal and external lubricants, release agents and acid scavenger for thermoplastics. Tallow or vegetable derived.
Moisture absorbers	BYK®	BYK-Chemie	Low emission additive to remove residual humidity, to absorb humidity caused by incorporation of fillers and pigments, prevention of unwanted surface defects in PVC plastisols.
Monomers	DAISO DAP™	Osaka Soda	Diallyl phthalate monomers, cross-linking agents for unsaturated polyester and hot sealing compound as replacement for styrene monomer as well as cross-linking agent for PVC polymerization.
Polymer modifiers	PRIEX® SCONA®	BYK-Chemie	Grafted polymers (PP, PE, PA, SEBS) as coupling agents, impact modifiers and compatibilizers. Different products with high levels of grafting for WPC, PP glassfiber, TPE-S overmolding, PA and PET.

ADDITIVES CONTINUED

PRODUCT GROUP	PRODUCT NAME	PRODUCER	PRODUCT DESCRIPTION
Processing additives	BYK®-P	BYK-Chemie	Processing aid for filled thermoplastic compounds as well as for PVC plastisols and PVC calendering. Processing aid for thermoplastics based on PE and PP to reduce odor and VOC in the final product.
Rheology modifiers	BYK®	BYK-Chemie	Low viscous, free flowing additives to increase the thixotropy, to improve the foam stability of mechanically blown foams, to reduce bleeding of pigmented PVC-plastisols.
Viscosity reducers	VISCOBYK®	BYK-Chemie	Viscosity reducer with air release or wetting and dispersing component, partly with low volatility for high- and low- as well as unfilled, foamed and pigmented PVC-plastisols.
Wax emulsions	AQUACER® HORDAMER®	BYK-Chemie	PE-wax emulsions and dispersions for use as anti-caking additives in the underwater pelletizing of thermoplastic granules (TPE, TPU, EVA).
Waxes	Baerolub®	Baerlocher	Internal and external lubricant for thermoplastics with different melting points. Stabilizer for PE-foams. Wax ester as anti-block agent. Food contact approved.
Wetting and dispersing agents	BYK® BYKOPLAST® DISPERBYK® DISPERPLAST®	BYK-Chemie	Additive for optimal pigment wetting and dispersion, in order to achieve higher color strength and to avoid agglomeration of organic and anorganic pigments. Suitable for liquid color masterbatches for PE, PP und PET.

BINDERS

Isocyanate resins	Aquolin®	Wanhua Chemical Group	Hydrophilically modified, aliphatic polyisocyanates for waterborne 2K-PU metal, glas, plastic and wood coatings.
Polyurethane dispersions	Crysol®	Wanhua Chemical Group	Waterborne polyurethane dispersions (PUD) for plastic coatings with very soft touch, excellent flexibility and good chemical resistance.
	Lacper®	Wanhua Chemical Group	Waterborne polyurethane dispersions (PUD) for wood coatings with very good open time, fast drying properties and good blocking resistance.
	Leasys®	Wanhua Chemical Group	Waterborne polyurethane dispersions (PUD) for synthetic leather with very good adhesion properties, excellent flexibility and good resistance properties.
	Tekspro®	Wanhua Chemical Group	Waterborne polyurethane dispersions (PUD) for textile and textile printing with very good adhesion properties, excellent flexibility, good haptic and good resistance properties.

INTERMEDIATES

Alcohol	Exxal	ExxonMobil Chemical	The Exxal™ alcohols are branched, primary alcohols that contain both even- and odd-numbered hydrocarbon chains, ranging from C8 to C13.
Acid	Neo-Pentanoic acid	ExxonMobil Chemical	ExxonMobil neo acids exhibit high branched structures in which the carboxylic group is attached to a quaternary carbon atom. The high steric hindrance provided by the neo acid structure imparts excellent thermal and hydrolytic stability in derivatives and also helps make neo acids a superior building block for derivatives.

PIGMENTS

PRODUCT GROUP	PRODUCT NAME	PRODUCER	PRODUCT DESCRIPTION
Aluminium pastes	Toyalshine	Toyal Europe	Aluminium pigments with high hiding power to achieve chrome effects, several colors are available.
Iron oxide pigments	Iron oxide	Toda United Pigment	Full color range of iron oxide pigments with excellent color consistency, very good dispersibility and high tinting strength.
Liquid pigment pastes	Auricolor™	Chromaflor Technologies	Solvent-free colorants for coloration of various thermoplastics, in particular packaging, house ware and toy industries (CB) or thermoset polyester applications (PE).
Pearlescent pigments	Kuncai	Fuzhou Kuncai Fine Chemicals	Effect pigments for the plastics industry based on natural and synthetic mica as well as borosilicate glass. Wide range of colors with a high quality according to European standards.
White pigments	Titanium dioxide	Ruichem	Anatase and Rutile TiO ₂ pigment with organic and/or inorganic treatment. These pigments have very good opacity, color strength and dispersing properties as well as excellent light and weather resistance.

THERMOPLASTIC POLYMERS

EVA (ethylene vinyl acetate)	Ateva®	Celanese	High-performance ethylene vinyl acetate copolymers with a VA contents from 9 up to 40 % and wide MFI range from 0.35 to 850.
PVC	Formolon®	Formosa Plastics	Emulsion - and special suspension - PVC resins used in various paste processing and thermoplastic applications. A wide range of homopolymer-, copolymer- and blending resins with different molecular weights, viscosities, low moisture and VOC content can be offered.

PREPOLYMER

PU-prepolymers	Polytex	Polytex	Aliphatic and aromatic polyether polyol based PU prepolymers for 1 and 2 pack PU systems. Partly containing a monomeric isocyanate residue < 0.8 %.
----------------	---------	---------	---

POLYMER DISPERSIONS

Polyvinyl acetate dispersions	Vinamul®	Celanese	Dispersions based on PVAc for the applications in water-based plastisols, foamed or non-foamed as well as in coated fabric.
Vinylacetate ethylene (VAE) dispersions	Mowilith®	Celanese	Dispersions based on vinylacetate and ethylene for the applications in water-based plastisols, foamed or non-foamed as well as in coated fabric.

SYNTHETIC RUBBER

PRODUCT GROUP	PRODUCT NAME	PRODUCER	PRODUCT DESCRIPTION
CPE (chlorinated polyethylene)	Dakren™	Osaka Soda	Chlorinated polyethylene (CPE/CM) with high resistance against aging and various media. Mainly used as impact modifier in PVC, PE, ABS, resp. as elastomer for hoses and cables.

RESINS

PVB	Butvar®	Eastman Chemical	Polyvinyl butyral resin suitable for thermoset plastic, e. g. composites and laminates to increase mechanical strength, as well as flexibility. Butvar® offers reactive hydroxyl sites for crosslinking with thermoset resins as well as a general good solubility and is therefore easy to be formulated into many applications.
-----	---------	------------------	---

PROCESSING AGENTS

Mould release agents	Loctite® Frekote	Henkel	Solvent- or water-based semi-permanent release agent with a high thermal stability for multiple releases of advanced composites (epoxy systems, polyester, vinylester) as well as rotomolding. Surface effects can be implemented on the molded part.
	Loctite Frekote® PUR100	Henkel	PUR100 is a semi-permanent, water based release agent for multiple releases of PU parts. Molded parts can be painted or bonded without any post-finishing steps.

RUBBER-TO-SUBSTRATE ADHESIVES

Bonding agents	Chemlok® Chemosil® Parlock™	Lord Germany	Bonding agents for the adherence of many elastomers to practically all metals. The products show high adhesion strength and resistance against corrosion, high temperatures as well as oils and solvents.
----------------	-----------------------------------	--------------	---

Product Disclaimer

1. Any information given on the chemical and physical characteristics of our products, including technical advice on applications whether verbally, in writing or by testing the product, is given to the best of our knowledge. However, this information is given without obligation and does not exempt the buyer from carrying out own investigations and tests in order to ascertain the product's specific suitability for the purpose intended. The buyer is solely responsible for the application, utilisation and processing of the products and must observe the laws and government regulations and the consequential rights of any third party. Any exception of the above-mentioned restrictions requires the manufacturer's express release in writing.
2. The products sold and/or supplied by us are not destined for the manufacture (i) of medical devices according to EU directive 93/42/EEC, in particular of implants, (ii) of biocides, (iii) of pesticides, (iv) of human and veterinary pharmaceuticals, (v) of food and feed products, (vi) of cosmetics, (vii) of weapons or other objects, designed to take human life or causing injuries.
3. At all times our Conditions of Sale apply.
4. Our product lists include dangerous goods. The correct marking of such goods is described in the respective datasheets.



[BRING IT TOGETHER]

www.krahn.eu

KRAHN Chemie Deutschland GmbH
Grimm 10
20457 Hamburg
Germany
Phone +49 40 320 92-0
info.de@krahn.eu

03/2019