

RUBBER

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 ]

## SYNTHETIC RUBBER

PRODUCT GROUP	PRODUCT NAME	PRODUCER	PRODUCT DESCRIPTION
ACM HT-ACM (Acrylic rubber)	Racrester™	Osaka Soda	Vulcanizates made out of ACM and especially HT-ACM are extremely resistant against heat and various media. With these elastomers you can produce turbo charger hoses, air intake hoses and power steering hoses as well as media and temperature resistant seals and membranes.
ACSM (acrylated chlorosulfonated polyethylene)	extos®	Tosoh	ACSM based on acrylated polyethylene. Special elastomer with high resistance against oils and hot air as well as good weather resistance. Additional to regular CSM better dynamic properties, heat resistance and low temperature flexibilities. Applications: hoses and belts.
CPE (chlorinated polyethylene)	Dakren™	Osaka Soda	Vulcanizates made of Dakren™ CPE respectively CM have a good ozone-, oil- and weather resistance as well as good resistance to heated air. Application areas: cables, hoses, window profiles, PVC pipes.
CR (chloroprene rubber)	Skyprene®	Tosoh	CR is a synthetic rubber with extraordinary properties in case of resistance against weather conditions, oil and many aggressive chemicals. Additional, CR has a very good resistance. There are various kinds of grades available with different viscosity and chlorine content. Applications: fuel-, hydraulic- and power steering hoses.
CSM (chlorosulfonated polyethylene)	TOSO-CSM®	Tosoh	Elastomer with high resistance against oils and hot air as well as good weather resistance. There are various kinds of grades available with different viscosity and chlorine content. Applications: fuel-, hydraulic- and power steering hoses.
ECO (Epichlorhydrin rubber)	EPICHLOMER®	Osaka Soda	Epichlorhydrin rubber results in vulcanizates with a very good heat-, oil-, ozone- and weather resistance with a low gas permeability. Epichlorhydrin rubber is used in fuel systems, membranes as well as hoses for engines. Further applications are industrial- and printing rolls, tank surface protections as well as membranes and seals.
EPDM (Ethylene-propylene-diene-monomer)	Esprene®	Sumitomo Chemical Co.	Ethylene-propylene-diene-monomer (EPDM) is classified as polymer with saturated hydrocarbon chains with an excellent resistance to weather influences (e.g. UV radiation, ozone, heat and humidity) and it is mostly resistant to acid and bases. EPDM is used in the automotive, construction and electronic industry and for technical rubber goods.
EVA (Ethylene-vinyl-acetat)	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.

## PLASTICIZERS

PRODUCT GROUP	PRODUCT NAME	PRODUCER	PRODUCT DESCRIPTION
Adipates	CRANE® Plast DIDA	KRAHN Chemie	Low volatile monomeric adipate ester based on C10 branched alcohol. DIDA is providing good low temperature flexibility, as well as providing low fogging.
	CRANE® Plast DOA	KRAHN Chemie	Plasticizer to improve the flexibility at low temperature. Furthermore, it reduces viscosity with good dispersion properties. Food contact applications are possible.
	CRANE® Plast DTDA	KRAHN Chemie	Lowest volatile monomeric adipate ester based on C13 branched alcohol. DTDA is providing good low temperature flexibility, as well as meeting fogging requirements.
	Lincol 9	Eigenmann & Veronelli	Lincol 9, thanks to its low volatility, is used for rubber items either at low (-50°C) or high temperature (+130°C). It is also resistant to extraction.
	OXSOFT® DOA	Oxea	Plasticizer to improve the flexibility at low temperature. Furthermore, it reduces viscosity with good dispersion properties. Food contact applications are possible.
Benzoates	Jayflex™ MB 10	ExxonMobil Chemical	Benzoate based plasticizer which is used as an alternative for critical short-chain esters.
Benzyl phthalates	Santicizer®	Valtris Specialty Chemicals	Phthalate based plasticizers, combining the following properties: Low volatility, excellent extraction resistance and a good compatibility with a wide variety of resins.
Caprylates	Lincol 102	Eigenmann & Veronelli	Lincol 102 is a synthetic plasticizer for PVC with anti-static effect, especially suitable for conveyor belts and flooring. It is effective over a wide temperature range (from -51°C to 100°C).
Citrate	CRANE® Plast ATBC	KRAHN Chemie	Odorless plasticizer with excellent characteristics of compatibility with PVC and a wide range of polymers and resins.
Ester	Lincol BAS-T	Eigenmann & Veronelli	Lincol BAS-T is a synthetic ester with no odour and a low acidity value, obtained by esterification of benzoic acid with a mixture of synthetic alcohols C12-C15 at very high linearity.
Fast fusers – Benzyl-phthalates/ Carboxylates	Santicizer PLATINUM® P-1400	Valtris Specialty Chemicals	Phthalate free and fast fusing plasticizer which shows a high compatibility and efficiency, and performs by high permanence and low water solubility. Recommended for many applications, like plastisol, foam, sealant, calendering, 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.
Phthalates	Jayflex™ DIDP Jayflex™ DINP	ExxonMobil Chemical	High molecular standard plasticizers. Due to the branching of the alcohol chains Jayflex™ DINP and DIDP have a high migration resistance und a low volatility.
	Jayflex™ DIUP	ExxonMobil Chemical	High molecular special plasticizer for rubber processing. Due to its low fogging values and high migration resistance Jayflex™ DIUP is used in automotive applications, e. g. car interior.
	Jayflex™ DTDP	ExxonMobil Chemical	Very high molecular special plasticizer for rubber processing. Due to its very high molecular weight und the outstanding low volatility, Jayflex™ DTDP is recommended for high temperature and high voltage applications.
Polymeric adipates	Santicizer®	Valtris Specialty Chemicals	Polimeric plasticizer which provides outstanding migration and extraction resistance to petrol and mineral oils. Excellent plasticizer for oil resistant cable jacketing and hoses.

## PLASTICIZERS CONTINUED

PRODUCT GROUP	PRODUCT NAME	PRODUCER	PRODUCT DESCRIPTION
Sebacates	CRANE® Plast DBS	KRAHN Chemie	Monomeric sebacate ester adipate ester based on C4 branched alcohol. DBS is providing outstanding low temperature flexibility with a low initial viscosity.
	CRANE® Plast DOS	KRAHN Chemie	Special monomeric sebacate ester adipate ester based on C8 branched alcohol. DOS is providing outstanding low temperature flexibility and is primarily used in extrem low temperature enviroment.
Specialty	Lincol 6	Eigenmann & Veronelli	Lincol 6 is a special plasticizer, used in rubber industry, designed to obtain highly resistant products and to give flexibility at low temperature to fuel hoses, wire jacketing and for a wide range of molded extruded products.
	Lincol BCF	Eigenmann & Veronelli	Lincol BCF (Butyl Carbitol Formal) is a special plasticizer used in rubber industry. Lincol BCF is designed to obtain highly resistant elastomers and to give flexibility at low temperature to a wide variety of molded extruded products.
	Lincol BS	Eigenmann & Veronelli	Lincol BS is used in plastics as a non-opacifying lubricant and mold release agent for crystal-clear high-impact polystyrene and SAN, ABS injection molded articles, and as lubricant in acrylonitrile-butadiene polymers.
Specialty blends	OXSOF™ 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.
	OXSOF™ DUO2	Oxea	Blend of two low volatile esters. OXSOF™ DUO2 features a further improved migration profile compared to OXSOF™ 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	OXSOF™ TOTM LE/TOTM LE ST	Oxea	Highly permanent plasticizer, compatible with various polymers, extremely low volatility, excellent protection against calcium soaps, low fogging and good processability.

## RUBBER-TO-SUBSTRATE ADHESIVES

	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.
--	-----------------------------------	--------------	---

## ADDITIVES

PRODUCT GROUP	PRODUCT NAME	PRODUCER	PRODUCT DESCRIPTION
Blowing agents, chemical	Unifoam AZ	Hebron	Azodicarbonamide – Exothermic chemical blowing agent for fine-pored and regular foams, e. g. insulation foams made from synthetic rubber. The pure ADC is available in various particle sizes ranging from 3.5 to 23 µm, both as standard and as low-dust Ultra series. For low temperature applications also modified grades with kicker are available.
Co-stabilizers	ESBO	Hebron	Epoxidised Soybean Oil. Secondary Plasticizer and Co-Stabilizer. Yellow liquid, low odor, available in drums, IBC's as well as bulk to be applied as a co-stabilizer because of its good heat resistance and as secondary plasticizer for rubber, e.g. rubber mixtures for conveyor belts or other technical rubber parts.
Coupling agents	SiSiB® PC	Nanjing SiSiB Silicones	Bifunctional polysulfidic organosilanes for the rubber industry, used to improve the reinforcing capability of non-black fillers with silanol group on their surface.
Flame retardants	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.
Metal soaps	Alugel®	Baerlocher	Aluminium di-/tri-stearate. White powder with fine particle size distribution for good lubricating properties within the compound. Following types are available: Alugel® 34 TH, Alugel® 30 DF.
	Calciumstearat	Baerlocher	Calcium stearate. Highly pure, fine powder with large surface. Used as release agent.
	MG Siel 1	Baerlocher	Magnesium stearate, white powder as mold release agent for compounds. Hydrophobic agent for bicarbonate- or phosphate containing formulations. Used as acid scavenger e.g. in chlorinated formulations.
	Natriumstearat	Baerlocher	Sodium salt of the stearic acid, sprayed, white powder. Effective release agent in compounds.
	Zincum	Baerlocher	Zinc stearates. Fine, white powder with extremely large surface with excellent release properties.
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.

## 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.
---------	-------	---------------------	--

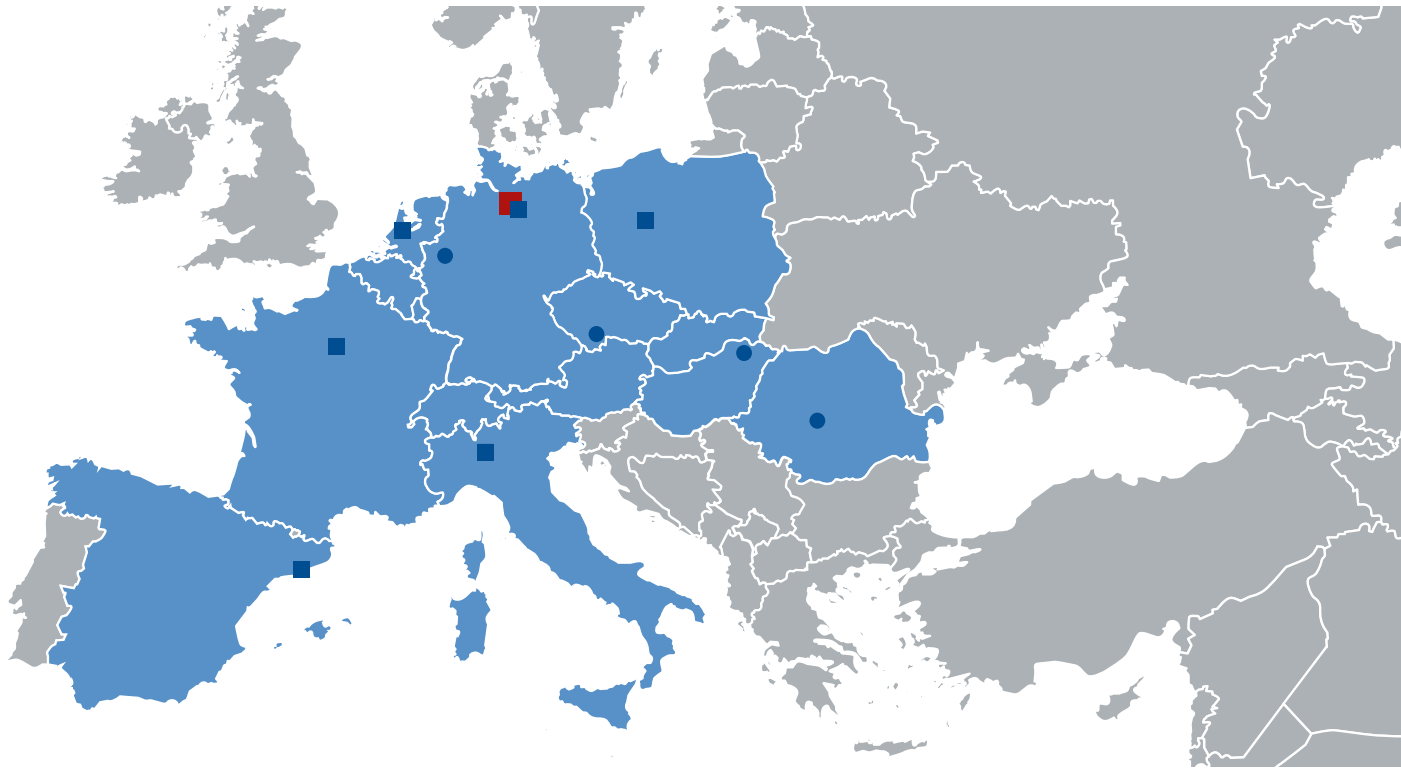
## PROCESSING AGENTS

PRODUCT GROUP	PRODUCT NAME	PRODUCER	PRODUCT DESCRIPTION
Mould cleaners	Loctite® Frekote	Henkel	Mold cleaner for removing residues of release agents, finger prints and waxes. These products are used at a temperature of 10 – 40°C.
Mould release agents	Loctite® Frekote	Henkel	Solvent-based semi-permanent release agent with a high thermal stability for multi releases of advanced composites (epoxy systems, polyester, vinyl ester) as well as rotational molding. Depending on the product a matt finish, satin finish or gloss finish of the molded part is possible.
	Loctite® Frekote C	Henkel	Water-based semi-permanent release agents with a thermal stability up to 315°C for multiple releases of advanced composites (epoxy systems, polyester, vinyl ester). The Loctite® Frekote C products are applied at room temperature and cure fast at a temperature.
	Loctite® Frekote HMT	Henkel	Solvent-based release agent for multiple releases of rubber parts. These products are especially for application on hot molds > 60°C. The Loctite® Frekote HMT2 is less moisture sensitive.
	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.
	Loctite® Frekote R	Henkel	Water-based semi-permanent release agents for multiple releases of rubber parts. The Loctite® Frekote R products have a thermal stability up to 315°C to 400°C after curing. There is no contamination of the molded part during the molding process.
	Sipiol® CS	Henkel	Tenside based release agent with corrosion inhibiting effect and high thermal stability for release of rubber parts.
	SiSiB® MF2010	Nanjing SiSiB Silicones	The product is available in different viscosities (50-12500 mPas). It is used as lubricating agent and mould release agent.
Mould sealers	Loctite® Frekote	Henkel	Mold sealers which are easy to apply to seal new molds and older molds with micro porosity and light surface blemishes. These products enhance the release advantages of Loctite® Frekote products.

### 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](http://www.krahn.eu)

KRAHN Chemie Deutschland GmbH  
Grimm 10  
20457 Hamburg  
Germany  
Phone +49 40 320 92-0  
[info.de@krahn.eu](mailto:info.de@krahn.eu)

10/2019