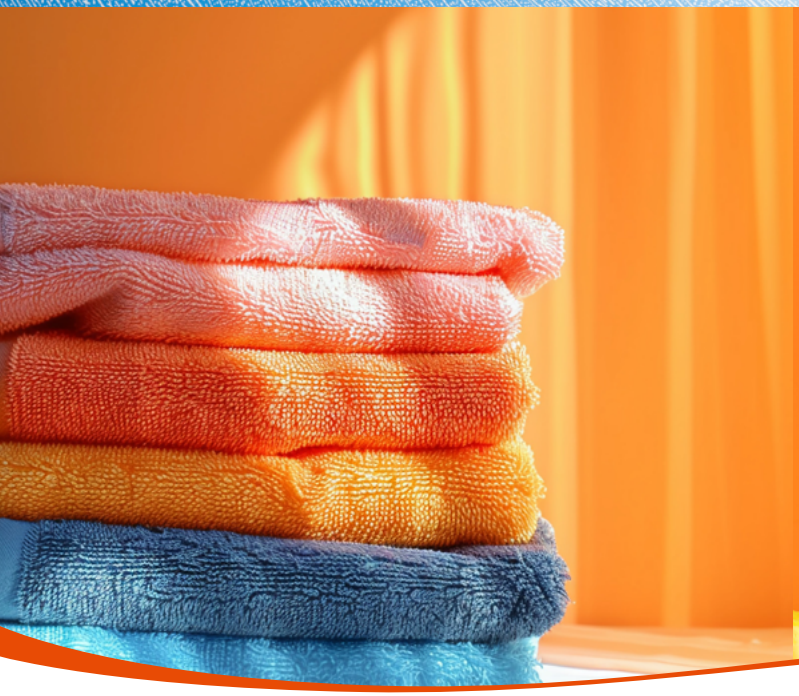

PRODUCT RANGE

CLEANING, DETERGENTS & CARE PRODUCTS

BCD

Die Chemieversteher

INDEX

ABOUT US

BCD Chemie

For decades, BCD Chemie has focussed on the Europe-wide marketing and distribution of industrial and specialty chemicals and is one of the leading suppliers in this segment. As a link between manufacturers of high-quality chemical raw materials and customers from many industries, we supply B2B sales solutions for a wide range of sectors and applications. Profound market knowledge, competent product and application advice as well as comprehensive expertise in chemical-technical and market-analytical contexts form the basis of our philosophy of modern chemical distribution.

BCD Chemie offers various additives and surfactants for the production of cleaning and washing detergents as well as for surface care products.
With their help, high-quality and innovative products can be formulated that improve the properties of cleaning and care performance.

These important properties are:

- polishability
- hydrophobicity & oleophobicity
- abrasion resistance
- gloss
- anti-Slip
- filling properties for scratches

BCD Chemie will continue to expand its portfolio of sustainable products in the coming years.
The sustainable products currently available, especially those that are 100% or partially derived from non-fossil sources, are labelled with the green leaf.
More information on the products can be found in our sustainable range card. Our sustainable concept is available on our sustainablity website.

ADDITIVES FOR CLEANERS

Surfactans / Wetting Agents

Product	Description
Non-ionic surfactants	Fatty alcohol ethoxylates Fatty alcohol alkoxylates Fatty acid ethoxylates EO/PO block copolymers Sugar surfactants Polyalkylene glycols
Anionic surfactants	Alkylbenzenesulfonates, sodium salt Alkysulphates, sodium salt Alkyl ether sulphates, sodium salt Cumene sulphonate, sodium and potassium salt
Amphoteric surfactatans	Betaines
Acetylendiol (TMDD)	Wetting agent for water-based cleaners to reduce the surface tension, dissolved in various solvents or as a pure substance. With additional defoaming effect.
Silicone polyether	Wetting agent for water-based cleaners to reduce the surface tension and to improve wetting.
Trisiloxanes	Wetting agent for water-based cleaners to reduce the surface tension and to improve wetting. Can partially replace fluorosurfactants.

Chelating Agents

Product	Description
Gluconic acid, sodium salt	Sodium gluconate, crystalline powder, used as a complexing agent for calcium and magnesium ions in cleaners.
Gluconic acid	Fermentatively produced gluconic acid, used in cleaners to dissolve mineral residues.
Trinatriumcitrat	Phosphate substitute, e.g. in dishwasher tabs. Available as anhydrate and dihydrate.
EDTA (Ethylenediaminetetraacetic acid)	Has the ability to form complexes with metal ions in a wide pH range in water-based systems.
MGDA (Methylglycinediacetic acid)	Has the ability to form complexes with metal ions in a wide pH range in water-based systems. MGDA is characterized by good biodegradability.

Antifoams

Product	Description
Polymer antifoams	Organic antifoams based on polymers for water-based and solvent-based cleaners. Partly also based on renewable raw materials.
Silicone antifoams	Very efficient antifoams, primarily for water-based but also for solvent-based cleaners. Available as a concentrate and emulsion.
Acetylendiol (TMDD)	Antifoam for water-based cleaners, dissolved in various solvents or as a pure substance. Also acts as a wetting agent.

Binders / Resins

Product	Description
Bio-based polyester resin	Aqueous solution of a modified polyester resin as an additive for gloss in floor cleaners as well as wetting and leveling agent. Also improves the re-emulsifiability of wax emulsions.

SOLVENTS

BCD Chemie covers the entire range of organic solvents. We supply all common solvents as well as special versions.
A small selection from the product portfolio:

- Acetates
- Alcohols
- Amines
- Aromatics
- Aliphatics
- Esters
- Ketones
- Test gasoline
- Glycol ethers
- Chlorinated solvents

In addition to pure solvents, we also offer mixtures such as thinners. We produce these according to your requirements - please do not hesitate to contact us.

SALTS AND SOLIDS

BCD Chemie also offers salts of most acids and lyes.

ACIDS

BCD Chemie offers both organic and inorganic acids for different applications and in different qualities.
The acids are available in various concentrations, from highly concentrated to highly diluted:

- Formic acid
- Acetic acid
- Lactic acid
- Citric acid
- Gluconic acid
- Tartaric acid
- Malic acid
- Fumaric acid
- Hydrochloric acid
- Amidos

LYES

Various lyes are also available in the broad BCD Chemie portfolio. These are offered in different concentrations:

- NaOH Prills
- NaOH solutions
- KOH
- Amines
- Caustic potash
- Caustic soda

Rheology Additives / Thickeners

Product	Description
Modified polyurea	Liquid rheology additives for water-based cleaners over a wide pH range as well as for solvent-based cleaners with different polarity.
Phyllosilicates	Rheology additives for water-based and solvent-based (polar & non-polar) cleaners. Phyllosilicates provide a very strong thixotropic flow behavior. Depending on the concentration, a flow limit can be set which is ideal for vertical surface cleaners. The high viscosity also prevents solids from settling **(anti-settling)**.
Acrylic thickener	Thickener for water-based cleaners to increase the viscosity and to achieve an (almost) newtonian flow behavior.
Polyurethane thickener	Thickener for a newtonian to pseudoplastic flow behavior in cleaners.
Fumed silica	Hydrophilic and hydrophobic fumed silica with different surface areas as a thickener for solvent-based and water-based cleaners. Pseudoplastic to thixotropic flow behavior can be achieved.
Methylcellulose	Rheology additive based on renewable raw materials for water-based cleaning systems with a pseudoplastic rheology profile.
Carboxymethylcellulose	Rheology additive based on renewable raw materials for water-based cleaning systems.
Xanthan gum	Rheology additive for water-based cleaning systems. Polysaccharide produced by fermentation.

Dispersing Additives

Product	Description
Styrene-maleic acid copolymer	Solution of a modified styrene-maleic acid copolymer in water as a dispersing additive for cleaners containing solid particles. Stabilizes the solid particles in the cleaner and reduces the viscosity.
Acrylate polymer	Amonium salt of an acrylate polymer, dissolved in water as a dispersing additive for cleaners containing solid particles. Stabilizes the solid particles in cleaners and reduces the viscosity.

Anti-corrosion Additives

Product	Description
Copper deactivator	Triazole derivative, solvent free and good solubility in oils. Triazole derivative formulation or triazole free options for water based applications.
Multi-metal corrosion inhibitors	Polymer inhibitors, for aluminum alloys, iron and steel, non-ferrous metals and zinc. Depending on the formulation, also acts as a wetting agent, EP/AW additive or co-emulsifier.
Long-term corrosion protection	For solvent-based applications, as temporary corrosion protection for iron and steel, specially modified version for aluminum.
Flash rust inhibitors	For water-based applications, as temporary corrosion protection for iron and steel. A special modified version for aluminum.

ADDITIVES FOR SURFACE MODIFICATION

Additives for floor care

Wax Additives

Product	Description
Canauba wax dispersion	Bio-based wax dispersion for water-based care products for **gloss** and surface protection with good water repellency **(hydrophobicity)**. For plastics, painted and unpainted surfaces.
Sunflower wax dispersion	Bio-based wax dispersion for water-based care products for **gloss** and surface protection with good water repellency **(hydrophobicity)**. For plastics, painted and unpainted surfaces.
Bees wax dispersion	Bio-based wax dispersion for water-based care products for **gloss** and surface protection with good water repellency **(hydrophobicity)**. For plastics, painted and unpainted surfaces.
Rice wax dispersion	Bio-based wax dispersion for water-based care products for **gloss** and surface protection with good water repellency **(hydrophobicity)**. For plastics, painted and unpainted surfaces.
Polyethylene wax dispersion	Wax dispersion for floor care products that provides good mechanical resistance of the surface coating **(shoe sole resistance, scratch resistance)** and increased slip resistance **(anti-slip)**.
Polypropylene wax dispersion	Wax dispersion for floor care products for improvement the surface properties and for increasing the slip resistance of the surface **(anti-slip)**.
Paraffin wax dispersion	Wax dispersion for water-based care products that enhances gloss and polishability. Improves the resistance of the surface **(abrasion)**.
Micronized polymer	Micronized polymer with waxy and matting properties for care products. Increases **scratch resistance**.

Wetting Agents

Product	Description
Acetylendiol (TMDD)	Wetting agent for water-based care products to reduce the surface tension, dissolved in various solvents or as a pure substance. With additional defoaming effect.
Silicone polyether	Wetting agent for water-based care products to reduce the surface tension and to improve wetting.
Trisiloxanes	Wetting agent for water-based care products to reduce the surface tension and to improve wetting. Can partially replace fluorosurfactants.

Antifoams

Product	Description
Polymer antifoams	Organic antifoams based on polymers for water-based care products. Partly also based on renewable raw materials.
Silicone antifoams	Antifoam emulsions for water-based care products with a strong defoaming effect.
Acetylendiol (TMDD)	Antifoam for water-based care products, dissolved in various solvents or as a pure substance. Also acts as a wetting agent

Rheology Additives / Thickeners

Product	Description
Modified polyurea	Liquid rheology additives for water-based care products to prevent the settling of dispersed solids **(anti-settling)**.
Phyllosilicates	Rheology additives for water-based care products. Phyllosilicates provide a very strong thixotropic flow behavior. The high viscosity also prevents the settling **(anti-settling)** of solids.
Acrylic thickener	Thickener for water-based care products to increase the viscosity and to achieve an (almost) newtonian flow behavior.
Polyurethane thickener	Thickener for a newtonian to pseudoplastic flow behavior in care products.
Fumed silica	Hydrophilic and hydrophobic fumed silica with different surface areas as thickener for water-based care products. Pseudoplastic to thixotropic flow behavior can be achieved.
Methylcellulose	Rheology additive based on renewable raw materials for water-based care products with a pseudoplastic rheology profile.
Carboxymethylcellulose	Rheology additive based on renewable raw materials for water-based care products.
Xanthan gum	Rheology additive for water-based care products, polysaccharide produced by fermentation.

Binders / Resins

Product	Description
Bio-based polyester resin	Aqueous solution of a modified polyester resin as an additive for gloss in floor care products as well as wetting and leveling agent. Also improves the re-emulsifiability of wax emulsions.

Additives for car care

Silicone Additives

Product	Description
Silicone fluids	Silicone fluids for solvent-based car polish formulations. They improve the **water-repellent** properties as a component and increase the **gloss**.
Silicone emulsions	Silicone emulsions for water-based car polish formulations. Improve the surface resistance with good water repellency **(hydrophobicity)** and increase the **gloss**.
Functionalized PDMS	Functionalized PDMS (amino, aryl etc.) as a component in car polish formulations improve the **water-repellent** properties and increase the **gloss**. In addition, they improve resistance through good adhesion to e.g. aluminum and chrome. Available as a 100% system or as a water-based emulsion.
Silicone resins	Silicone resins as solid resins, dissolved or as water-based emulsion lead to a high **hydrophobicity** of the surface and provide a **beading effect** in car polishes.

Wax Additives

Product	Description
Canauba wax dispersion	Bio-based wax dispersion for water-based car care products for **gloss** and surface protection with good water repellency **(hydrophobicity)**. For plastics, painted and unpainted surfaces. Can be polished by hand or with a polishing machine.
Sunflower wax dispersion	Bio-based wax dispersion for water-based car care products for **gloss** and surface protection with good water repellency **(hydrophobicity)**. For plastics, painted and unpainted surfaces. Can be polished by hand or with a polishing machine.
Bees wax dispersion	Bio-based wax dispersion for water-based car care products for **gloss** and surface protection with good water repellency **(hydrophobicity)**. For plastics, painted and unpainted surfaces. Can be polished by hand or with a polishing machine.
Rice wax dispersion	Bio-based wax dispersion for water-based car care products for **gloss** and surface protection with good water repellency **(hydrophobicity)**. For plastics, painted and unpainted surfaces. Can be polished by hand or with a polishing machine.
Polyethylene wax dispersion	Wax dispersion for car polishes, which enables good mechanical resistance of the surface coating **(abrasion and scratch resistance)**.

Wetting Agents

Product	Description
Acetylendiol (TMDD)	Wetting agent for water-based car care products to reduce the surface tension, dissolved in various solvents or as a pure substance. With additional defoaming effect.
Silicone polyether	Wetting agent for water-based car care products to reduce the surface tension and to improve wetting.
Trisiloxanes	Wetting agent for water-based car care products to reduce the surface tension and to improve wetting. Can partially replace fluorosurfactants

Antifoams

Product	Description
Polymer antifoams	Organic antifoams based on polymers for water-based car care products. Partly also based on renewable raw materials.
Silicone antifoams	Antifoam emulsions for water-based car care products with a strong defoaming effect.
Acetylendiol (TMDD)	Antifoam for water-based car care products, dissolved in various solvents or as a pure substance. Also acts as a wetting agent.

Rheology Additives / Thickeners

Product	Description
Modified polyurea	Liquid rheology additives for water-based car care formulations to prevent the settling of dispersed solids **(anti-settling)**.
Phyllosilicates	Rheology additives for water-based car care products. Phyllosilicates provide a very strong thixotropic flow behavior. The high viscosity also prevents the settling **(anti-settling)** of solids.
Acrylic thickener	Thickener for water-based car care products to increase the viscosity and to achieve an (almost) newtonian flow behavior.
Polyurethane thickener	Thickener for a newtonian to pseudoplastic flow behavior in car care products.
Fumed silica	Hydrophilic and hydrophobic fumed silica with different surface areas as thickener for water-based car care products. Pseudoplastic to thixotropic flow behavior can be achieved.
Methylcellulose	Rheology additive based on renewable raw materials for water-based car care products with a pseudoplastic rheology profile.
Carboxymethylcellulose	Rheology additive based on renewable raw materials for water-based car care products.
Xanthan gum	Rheology additive for water-based car care products, polysaccharide produced by fermentation.

Dispersing Additives

Product	Description
Modified polyacrylate	Liquid modified polyacrylate as a dispersing additive for car polishes. Enables a high solid content and reduces viscosity.
Styrene-maleic acid copolymer	Solution of a modified styrene-maleic acid copolymer in water as a dispersing additive for car polishes containing solid particles. Stabilizes the solid particles in the cleaner and reduces the viscosity.
Acrylate polymer	Amonium salt of an acrylate polymer, dissolved in water as a dispersing additive for car polishes containing solid particles. Stabilizes the solid particles in the formulation and reduces the viscosity.

Anti-corrosion Additives

Product	Description
Copper deactivator	Triazole derivative, solvent free and good solubility in oils. Triazole derivative formulation or triazole free options for water-based applications.
Multi-metal corrosion inhibitors	Polymer inhibitors, for aluminum alloys, iron and steel, non-ferrous metals and zinc. Depending on the formulation, also acts as a wetting agent, EP/AW additive or co-emulsifier.
Long-term corrosion protection	For solvent-based applications, as temporary corrosion protection for iron and steel, specially modified version for aluminum.
Flash rust inhibitors	For water-based applications, as temporary corrosion protection for iron and steel. A special modified version for aluminum.

Additives for leather care

Silicone Additives

Product	Description
Silicone emulsions	Silicone emulsions for water-based leather care products. They improve the **surface resistance** with good abrasion resistance and increase the **gloss**.
Functionalized PDMS	Functionalized amino-PDMS as an ingredient in leather care products, improve the **water-repellent** properties and increase the gloss. In addition, they improve the surface properties such as **abrasion resistance** and haptics **(soft feel effect)**.
Silicone resins	Reactive silicone resins, dissolved or as a water-based emulsion, result in a high hydrophobicity of the surface so that the leather remains supple and breathable.
Silicone elastomer powder	Silicone elastomer powders ensure a silky-smooth, matt finish as well as scratch and abrasion scratch and abrasion resistance in leather care products.

Wax Additives

Product	Description
Canauba wax dispersion	Bio-based wax dispersion for water-based leather care products for **gloss** and surface protection with good water repellency **(hydrophobicity)**. Easy to polish.
Sunflower wax dispersion	Bio-based wax dispersion for water-based leather care products for **gloss** and surface protection with good water repellency **(hydrophobicity)** and oil resistance **(oleophobia)**. Easy to polish.
Bees wax dispersion	Bio-based wax dispersion for water-based leather care products for **gloss** and surface protection with good water repellency **(hydrophobicity)**. Easy to polish.
Micronized polymer	Micronized polymer with waxy and matting properties for leather care coatings. Increases **scratch resistance** and improves the feel **(soft-feel effect)**.

Wetting Agents

Product	Description
Acetylendiol (TMDD)	Wetting agent for water-based leather care products to reduce the surface tension, dissolved in various solvents or as a pure substance. With additonal defoaming effect.
Silicone polyether	Wetting agent for water-based leather care products to reduce the surface tension and to improve wetting.
Trisiloxanes	Wetting agent for water-based leather care products to reduce the surface tension and to improve wetting. Can partially replace fluorosurfactants.

Antifoams

Product	Description
Polymer antifoams	Organic antifoams based on polymers for leather care products and textile coatings.Partly also based on renewable raw materials.
Silicone antifoams	Antifoam emulsions for water-based leather care products and textile coatings with strong defoaming effect.
Acetylendiol (TMDD)	Antifoam for aqueous leather care products, dissolved in various solvents or as a pure substance. Also acts as a wetting agent.

Rheology Additives / Thickeners

Product	Description
Phyllosilicates	Rheology additives for leather care products. Phyllosilicates provide a very strong thixotropic flow behavior. The high viscosity also prevents the settling **(anti-settling)** of solids.
Acrylic thickener	Thickener for water-based leather care products to increase the viscosity and to achieve an (almost) newtonian flow behavior.
Polyurethane thickener	Thickener for a newtonian to pseudoplastic flow behavior in leather care products.
Fumed silica	Hydrophilic and hydrophobic fumed silica with different surface areas as thickener for water-based leather care products. Pseudoplastic to thixotropic flow behavior can be achieved.
Methylcellulose	Rheology additive based on renewable raw materials for water-based leather care products with a pseudoplastic rheology profile.
Carboxymethylcellulose	Rheology additive based on renewable raw materials for water-based leather care products.
Xanthan gum	Rheology additive for water-based leather care products, polysaccharide produced by fermentation.

ADDITIVE FOR DETERGENTS AND SOFTENERS

Surfactants / Wetting Agents

Product	Description
Non-ionic surfactants	Fatty alcohol ethoxylates Fatty alcohol alkoxylates Fatty acid ethoxylates EO/PO block copolymers Sugar surfactants Polyalkylene glycols
Anionic surfactants	Alkylbenzenesulfonates, sodium salt Alkysulphates, sodium salt Alkyl ether sulphates, sodium salt Cumene sulphonate, sodium and potassium salt
Amphoteric surfactatans	Betaines
Acetylendiol (TMDD)	Wetting agent for water-based detergents to reduce the surface tension, dissolved in various solvents or as a pure substance. With additional defoaming effect.
Silicone polyether	Wetting agent for water-based detergents to reduce the surface tension and to improve wetting.
Trisiloxanes	Wetting agent for water-based detergents to reduce the surface tension and to improve wetting. Can partially replace fluorosurfactants.

Chelating Agents

Product	Description
Gluconic acid, sodium salt	Sodium gluconate, crystalline powder, used as a complexing agent for calcium and magnesium ions in detergents.
Gluconic acid	Fermentatively produced gluconic acid, used in detergents to dissolve mineral residues.
Trinatriumcitrat	Phosphate substitute, e.g. in dishwasher tabs. Available as anhydrate and dihydrate.
EDTA (Ethylenediaminetetraacetic acid)	Has the ability to form complexes with metal ions in a wide pH range in water-based systems.
MGDA (Methylglycinediacetic acid)	Has the ability to form complexes with metal ions in a wide pH range in water-based systems. MGDA is characterized by good biodegradability.

Antifoams

Product	Description
Polymer antifoams	Organic antifoams based on polymers for detergents and softeners. Partly also based on renewable raw materials.
Silicone antifoams	Very efficient antifoams, primarily for detergents and fabric softeners. Available as a concentrate and emulsion.
Acetylendiol (TMDD)	Antifoam for detergents and softeners, dissolved in various solvents or as a pure substance. Also acts as a wetting agent.

Rheology Additives / Thickeners

Product	Description
Modified polyurea	Liquid rheology additives for liquid detergents and softeners to prevent the settling of dispersed solids **(anti-settling)**.
Phyllosilicates	Rheology additives for liquid and powder detergents. Phyllosilicates provide a very strong thixotropic flow behavior. The high viscosity also prevents the settling **(anti-settling)** of solid particles. Special types provide a tissue **softening effect** as an additive component.
Acrylic thickener	Thickener for liquid detergents to increase the viscosity and to achieve an (almost) newtonian flow behavior.
Polyurethane thickener	Thickener for a newtonian to pseudoplastic flow behavior in liquid detergents and softeners.
Fumed silica	Hydrophilic and hydrophobic fumed silica with different surface areas as thickener for liquid detergents. Pseudoplastic to thixotropic flow behavior can be achieved.
Methylcellulose	Rheology additive based on renewable raw materials for liquid detergents with a pseudoplastic rheology profile.
Carboxymethylcellulose	Rheology additive based on renewable raw materials for liquid detergents.
Xanthan gum	Rheology additive for liquid detergents. Polysaccharide produced by fermentation.

DISINFECTANTS

Product	Description
WBC DES hand disinfection	With ethanol and skin care, hygienic hand disinfection effective after just 30 seconds.
Ethanol 80	80% ethanol by weight for hands and surfaces.
Isopropanol 70	70% by weight isopropanol, for hands and surfaces, effective against bacteria, yeasts and mycobacteria. Authorised for use throughout the European Union.
Sodium hypochlorite biocide 1	Water-based with sodium hypochlorite, ready to use, particularly suitable for disinfecting large surfaces and/or when alcohol is not an option.
Peraclean	Peracetic acid, highly effective disinfectant with a wide range of applications, characterised by excellent bactericidal, fungicidal, virucidal and sporicidal efficiency and suitable for disinfecting various surfaces.
Wapo 35 & 50	Stabilised hydrogen peroxide, 35% and 50% by weight, also suitable for surfaces in the food and veterinary sectors.
Clorious 2	Versatile disinfectant based on chlorine dioxide, for the treatment of cooling, process and drinking water.

BIOCIDES

Biocidal active substances from sources listed according to Art. 95:

- Ethanol
- 2-Propanol/IPA
- 1-Propanol
- Hydrogen peroxide
- Peracetic acid
- Formic acid
- Lactic acid
- Sodium hypochlorite/sodium hydroxide solution
- Chlorine dioxide (Clorious 2)
- Sodium chlorite

In some cases, it is also possible to obtain the active ingredients already processed, e.g. as a finished product or pre-dissolved.

BLENDSERV®

BLENDSERV® is BCD Chemie's programe for special mixtures and services. Here we provide you with targeted support in production-related routines or in the event of bottlenecks in production. The comprehensive BLENDSERV® service program helps you save costs, increase efficiency and improves safety and timing.

Services include chemical raw material mixtures, intermediates and „ready to use" mixtures.

Plant concepts

- „solid – liquid" dispersions (slurry) and solutions
- „liquid – liquid" emulsions and solutions

Technical data

Agitator volumes:	pilot plant 500 l up to the production of 30 m^3 batches
Agitator equipment:	dissolver disc, jetstream mixer, dispermix, Conti TDS Inline disperser
Thermodynamics:	cooling / heating 15 – 90 degrees Celsius
Engine power:	18 to 90 kW
Viscosity:	up to 10.000 mPa·s

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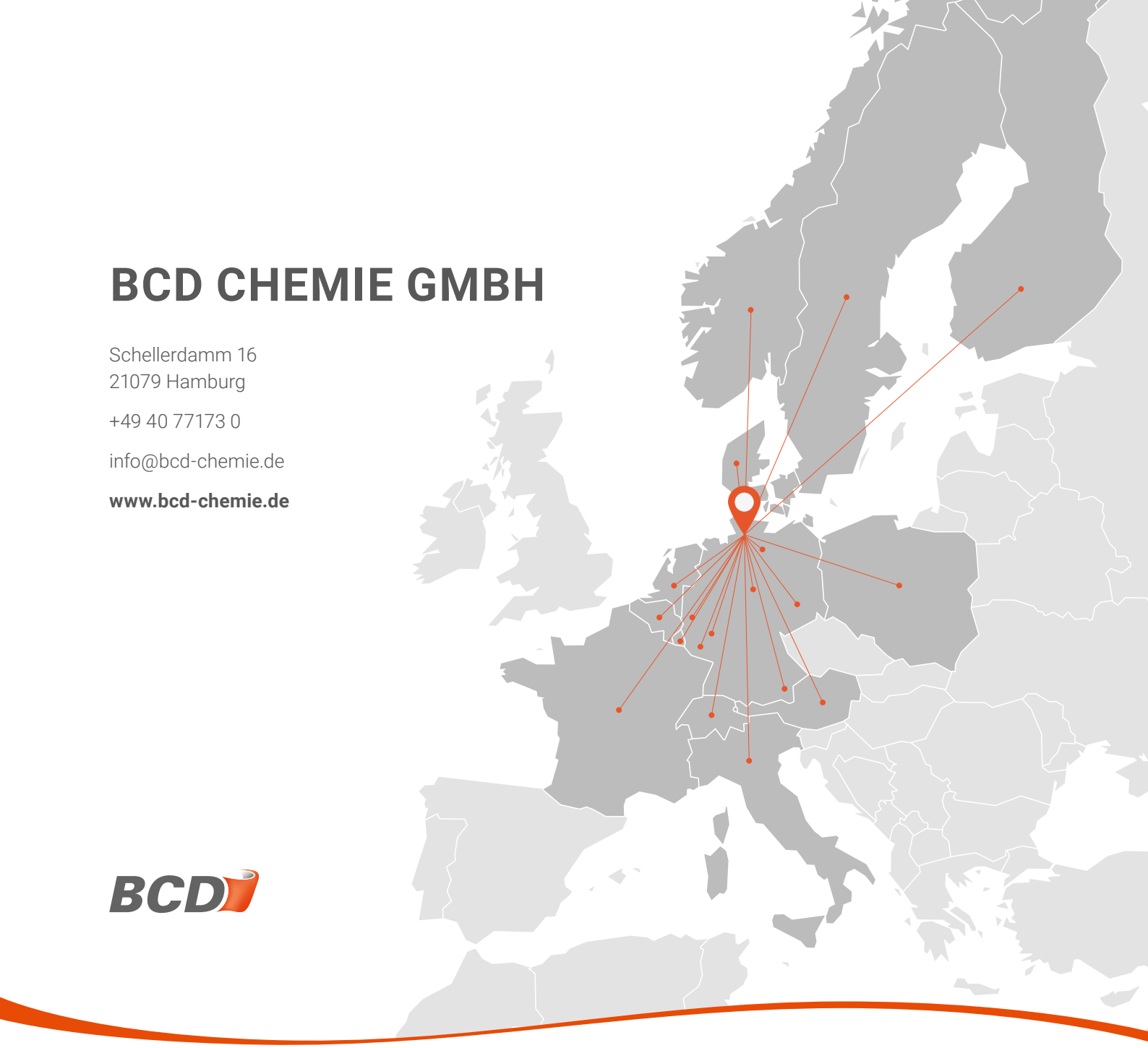

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