

# Detergency

Products for Home Care and  
Industrial & Institutional Cleaning.





# Detergency

From the Detergency division of Barcelonesa, a company with more than 80 years of history that is part of the Barcelonesa Group, we search for and develop the raw materials necessary for our customers' formulas. **We work to offer guaranteed solutions to the professional and domestic detergency sector.**

If you need it, we can also prepare concentrated bases or propose alternatives to an ingredient you use, in order for you to obtain certifications like Ecolabel or Ecocert, or optimise your formula in terms of performance or regulatory aspects.

We are convinced that a clean environment has a positive impact on people's well-being, and chemistry is the basis for more effective and safer cleaning and hygiene. That is why we support innovation by offering different solutions for new needs and being environmentally friendly.



## Wide range of products

In Barcelonesa we have a wide range of products and solutions for the detergency market, guaranteeing the highest quality standards.



## Technical advice

In addition to offering you a wide range of raw materials, we want to contribute to the successful development of your finished products with the help of our technical support.



## Manufacturing custom-made

We offer our customers our MIX-UP service, which allows us to create a tailor-made formulation for detergency companies.



## Logistics

We deliver your chemical products with the maximum quality guarantee, when you need them and adapting to the agreed delivery conditions.

# Our range of products

## Acids and Alkalies

### Acids

Adipic acid

Alcohol vinegar 14%, 12% and other dilutions

Ascorbic acid

**BD Oleo** AC/18VO: Oleic acid (olive based)

**BD Oleo** TPKFA: Topped palm kernel fatty acid

Citric acid 1-H

Citric acid 50%, and other dilutions

Citric acid anhydrous

Formic acid 85%

Glacial acetic acid, 80% and other dilutions

Gluconic acid 50%

Glycolic acid 70%

Hydrochloric acid 35%, 32% and other dilutions

Hydrochloric acid HQ colorless 33%, and dilutions

Hydrofluoric acid 72%, 60%, 40%

L-Lactic acid 80%

Malic DL acid

Methanesulfonic acid, 70%

Nitric acid 68%, 65%, 60% and other dilutions

Oxalic acid 2-H

Paratoluenesulfonic acid, powder or 65%

Phosphoric acid 85%, 80%, 75% and other dilutions

Sodium bisulfate, white pearls

Sorbic acid

Sulfamic acid

Sulfuric acid 98%, 70% and other dilutions

Sulfuric acid HQ 98%, 70% and other dilutions

### Alkalies

Ammonia 25%, 12% and other dilutions

Ammonium bifluoride

Caustic potash 50% and other dilutions

Caustic potash, flakes

Caustic soda 50%, 30% and other dilutions

Caustic soda additivated

Caustic soda, mini-pearls and flakes

Methyldiethanolamine

Monoethanolamine, 100%, 90%, 85% and other dilutions

Potassium carbonate

Potassium carbonate, aqueous solution

Sodium acetate 3-H, flakes or powder

Sodium bicarbonate

Sodium carbonate 1-H  
 Sodium carbonate anhydrous, dense and light  
 Sodium metasilicate 5-H  
 Sodium silicate 2,4 (alkaline)  
 Tetrapotassium pyrophosphate 50%  
 Tetrapotassium pyrophosphate, granular and powder  
 Triethanolamine, 85% aqueous solution  
 Triethanolamine, 99% and 85:15 (TEA:DEA)  
 Trisodium phosphate 12-H  
 Trisodium phosphate anhydrous

## Bleaching Agents

### Bleaching agents based on Active Oxygen

Peracetic acid 15% and 5%  
 Hydrogen peroxide 50%, 35%, 30%, 8%  
 Sodium percarbonate, coated  
 TAED blue, white (SPC activator)

### Bleaching agents based on Active Chlorine

Sodium hypochlorite  $\geq 175 \text{ g Cl}_2/\text{L}$ ,  $\geq 150 \text{ g Cl}_2/\text{L}$  and other dilutions  
 Sodium chlorate, powder or aqueous solution

## Builders and Salts

### Phosphoric Acid and Phosphates

Phosphoric acid 85%, 80%, 75% and other dilutions  
 Potassium tripolyphosphate, 50%  
 Sodium hexametaphosphate  
 Sodium tripolyphosphate HD, powder  
 Sodium tripolyphosphate LD, granular  
 Tetrapotassium pyrophosphate 50%  
 Tetrapotassium pyrophosphate, granular and powder  
 Trisodium phosphate 12-H

### Citric acid and citrates

Citric acid 1-H  
 Citric acid, anhydrous  
 Citric acid 50% and other dilutions  
 Trisodium citrate 2-H

### Carbonates

**Godakarb:** Sodium sesquicarbonate  
 Sodium bicarbonate  
 Sodium carbonate anhydrous, dense and light



#### Silicates

Potassium silicate  
Sodium metasilicate 5-H  
Sodium metasilicate, anhydrous  
Sodium silicate 3,35 (super neutral)  
Zeolite 4A

#### Fillers and Anti-Caking

Calcium carbonate  
Coloured speckles  
Silica, precipitated (different particle sizes)  
Sodium sulfate anhydrous, granular and powder  
Sodium sulfate, blue, green, pink and orange  
Talc

#### Salts for dishwashing machines

Depursal 3-5: Granulated salt  
Vacuum salt, tablets

## Chelating Agents

#### Chelating agents

Barquest GLDA 47% and 38%  
Barquest MGDA 40%  
Barquest MGDA 80%, granular  
Barquest MGDA 84%, powder  
Barquest IDS 34%  
Sodium gluconate

#### Primary Phosphonates

Barquest ATMP 50%  
Barquest ATMP (5NA), 40%  
Barquest DTPMP (7NA), 25% and 32%  
Barquest DTPMP, 50%  
Barquest HEDP (4NA), 30%  
Barquest HEDP (4NA), 85% granular  
Barquest HEDP 60%  
Barquest PBTC 50%

#### Modified Phosphonates

Barquest CL: Stabilizer for formulations based on sodium hypochlorite  
Barquest OXI: Stabilizer for formulations based on hydrogen peroxide

\* Other types of phosphonates available, upon request

## Dispersing Agents and Anti-redeposition Agents

### Dispersing agents and crystal inhibitors

<b>Dispolak AM/70</b>	Maleic acrylic copolymer, sodium salt, 40% (MW: 70 000)
<b>Dispolak PA/4</b>	Acrylic homopolymer, sodium salt, 45% (MW: 4 000)
<b>Dispolak PA/4,5</b>	Acrylic homopolymer, sodium salt, granular (MW: 4 500)
<b>Dispolak PA/6</b>	Acrylic homopolymer, sodium salt, 45% (MW: 6 000)
<b>Dispolak PA/8</b>	Acrylic homopolymer, sodium salt, 45% (MW: 8 000)
<b>Dispolak PASP 40%</b>	Polyaspartic polymer, sodium salt 40%
<b>Dispolak PASP 90%</b>	Polyaspartic polymer, sodium salt 90% granular

### Anti-redeposition agents

Carboxymethyl cellulose (CMC)

## Enzymes and Enzyme Stabilizers

### Individual Enzymes

<b>BD Bioenzym DET PRO</b>	Protease, granular and liquid
<b>BD Bioenzym DET AMY</b>	Amylase, granular and liquid
<b>BD Bioenzym DET LIP</b>	Lipase, granular and liquid
<b>BD Bioenzym DET CEL</b>	Cellulase, granular and liquid
<b>BD Bioenzym DET MAN</b>	Mannanase, liquid
<b>BD Bioenzym PEC</b>	Pectinase, liquid

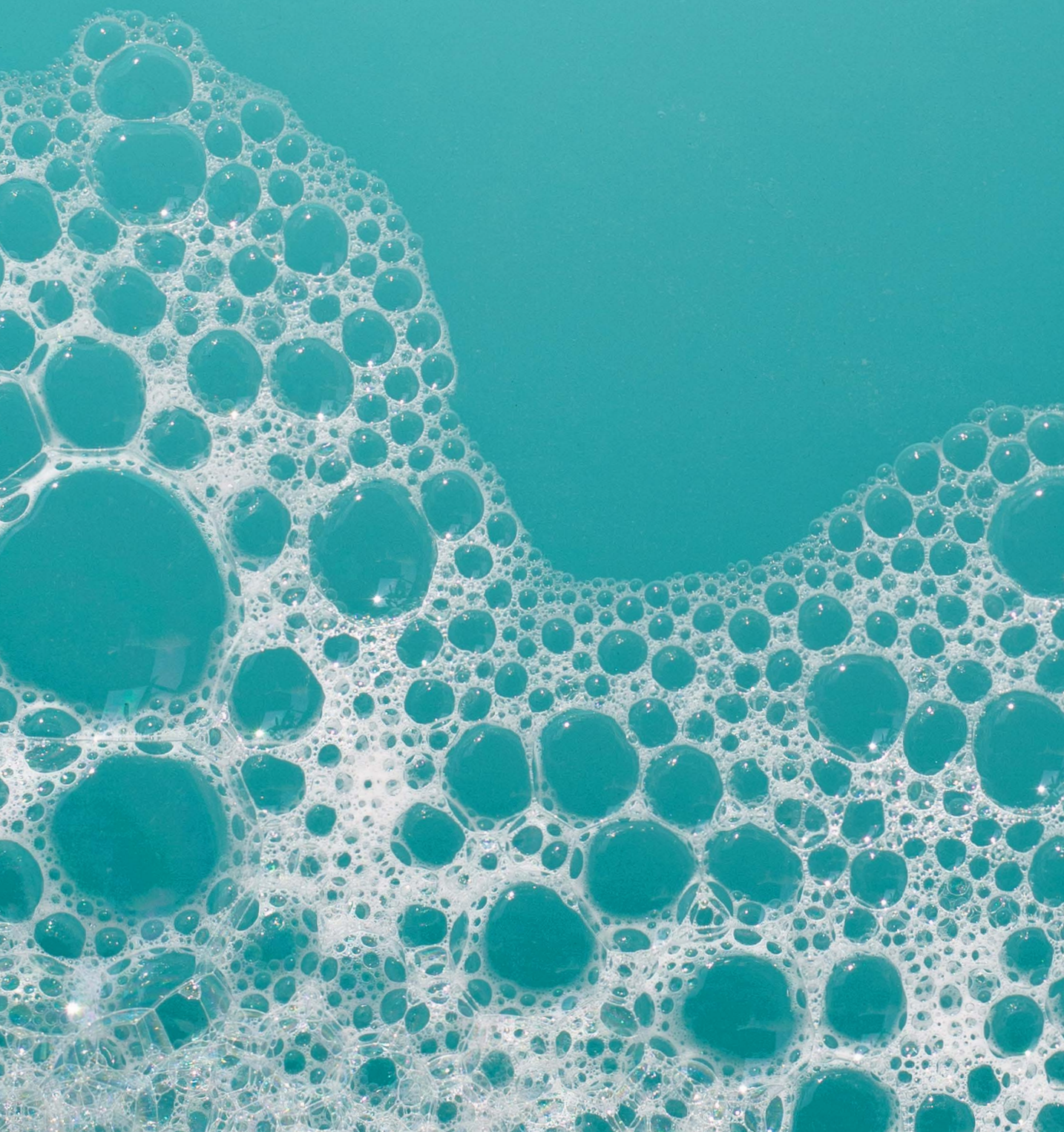
### Blends of enzymes

<b>BD Bioenzym DET PA</b>	Protease & amylase, co-granular and liquid
<b>BD Bioenzym DET PAL</b>	Protease & amylase & lipase, co-granular and liquid
<b>BD Bioenzym DET PALC</b>	Protease & amylase & lipase & cellulase, co-granular
<b>BD Bioenzym DET PACM</b>	Protease & amylase & cellulase & mannanase, co-granular
<b>BD Bioenzym DET PALCM</b>	Protease & amylase & lipase & cellulase & mannanase, co-granular
<b>BD Bioenzym DET PALMP</b>	Protease & amylase & lipase & mannanase & pectinase, liquid
<b>BD Bioenzym DET PALCMP</b>	Protease & amylase & lipase & cellulase & mannanase & pectinase, liquid

### Enzyme stabilizers

4-formylphenylboronic acid (4-FPBA)  
 Calcium chloride 2-H, flakes  
 Calcium chloride anhydrous, pearls  
 Calcium chloride, aqueous solution  
 MEA-Borate  
 Monopropyleneglycol  
 Sodium formate, 40% aqueous solution  
 Sodium formate, powder (with or without anti-caking)  
 Trisodium citrate 2-H







## Functional Additives

### Optical brighteners

Optical brightener CBS-X                      Distearylbiphenyl sulphonated type

Optical brightener DMS-X                      Triazolestilbene sulphonated type

\* Other types of optical brighteners available, upon request

### Glass corrosion inhibitors

Zinc acetate 2-H

Zinc chloride

Zinc sulphate 1-H or 7-H

### Rheology Modifiers

Celluloses                      Carboxymethyl cellulose (CMC 3000, 12000)

Hydroxypropylmethyl cellulose (HPMC)

Methyl cellulose (MC)

Inorganic salts                      Calcium chloride 2-H, flakes

Calcium chloride anhydrous, pearls

Calcium chloride, aqueous solution

Magnesium carbonate, light and dense

Magnesium chloride 6-H, aqueous solution

Magnesium chloride 6-H, flakes

Magnesium sulfate, 7-H and anhydrous

Sodium chloride, pure dried vacuum salt

Sodium chloride, saturated salt solution

Synthetic polymers                      **BD Gel 940**, powder

**BD Visco ANL**: thickener for anionic detergents

**BD Visco CSL**: thickener for cationic softeners

Polysaccharides                      Carrageenans

Guar gum 5000

Sodium alginates

Xanthan gum, 80 and 200 mesh

Surfactants                      **Bartensid OAM/30**: Myristic amine oxide, 30%. Thickener for oxidizing media

**Bartensid OFAM/020**: Oleyl amine ethoxylated with 2-EO. Thickener for acid media

### Abrasives

Aluminum oxide

Calcium carbonate T100

Precipitated silica, several particle sizes

Pumice stone

## Opacifying and Pearllising Agents

### Opacifying and pearllising agents

<b>BD Blend PEARL-35 (2)</b>	Pearllising agent based on surfactants mixture
<b>BD Opacif/40-1</b>	Opacifying agent based on acrylic monomers & styrenic polymer, 40%

## Perfumes and Dyes

### Perfumes and dyes

Range of fragrances for any product type
<b>Soldye</b> range of soluble dyes

## Preservatives and Biocides

### Preservatives and Biocides

<b>Bartensid</b> QUAT/BKC: Benzalkonium chloride, 50%
<b>Bartensid</b> QUAT/BKC: Benzalkonium chloride, 80%
<b>BD Hipowat</b> HG: Sodium hypochlorite ( $\geq 175$ g Cl <sub>2</sub> /L)
<b>BD Hipowat</b> LG: Sodium hypochlorite ( $\geq 150$ g Cl <sub>2</sub> /L)
<b>BD Hipowat</b> LG13: Sodium hypochlorite ( $\geq 130$ g Cl <sub>2</sub> /L)
<b>BD Hipowat</b> LG5: Sodium hypochlorite ( $\geq 50$ g Cl <sub>2</sub> /L)
<b>BD Pool</b> CLORO: Sodium dichloroisocyanurate 2-H, granular
Formic acid, 85%
Hydrogen peroxide, 35% and 50%
Peracetic acid, 5% and 15%
Sodium chlorite, as chlorine dioxide precursor

## Solvents and Hydrotropes

### Alcohols

Benzyl alcohol
Ethanol 96%
Isopropyl alcohol (IPA), deodorized

### Glycols

Butyldiglycol
Butylglycol
Diethyleneglycol
Monoethyleneglycol
Monopropyleneglycol USP
Monopropyleneglycol USP, vegetal origin
Polyethyleneglycol 200, 300, 400

#### Triols

Glycerin, food grade  
Glycerin, pharma grade  
Glycerin, technical grade

#### Solvents for industrial cleaning and "dry cleaning"

Acetone  
Dibasic ester  
Dichloromethane  
D-Limonene  
Ethyl acetate  
Methanol  
Methyl acetate  
Perchlorethylene  
Universal solvent  
White spirit

\* Customized solvent formulations available, upon request.

#### Hydrotropes

**Bartensid H-SCS/40-G:** Sodium cumensulfonate, 40%  
**Bartensid H-SXS/40-G:** Sodium xylenesulfonate, 40%  
**Bartensid 2EHS 40%:** 2-Ethylhexyl sodium sulfate, 40%  
**Bartensid AP/2EH:** 2-Ethylhexyl phosphoric acid ester  
Urea, pearls  
Urea, aqueous solution





## Non-ionic surfactants

### → Ethoxylated fatty alcohols

Short chain alcohols ethox.	Solubilizers and wetting agents (hard surfaces, ...)
<b>Bartensid 91/</b> range	Alc. C/09-11 ethoxylates
<b>Bartensid 10PH/</b> range	Alc. C/10 (2-PropylHeptanol) ethoxylates
<b>Bartensid 10PHNR/</b> range	Alc. C/10 (2-PropylHeptanol) narrow range ethoxylates
<b>Bartensid 10/</b> range	Alc. C/10-Isodecyl ethoxylates
<b>Bartensid 11/</b> range	Alc. C/11-Isoundecyl ethoxylates

Medium chain Alcohols ethox.	Detergents and solubilizers (laundry detergents, ...)
<b>Bartensid 124/</b> range	Alc. C/12-14 ethoxylates
<b>Bartensid 125/</b> range	Alc. C/12-15 ethoxylates
<b>Bartensid 126/</b> range	Alc. C/12-16 ethoxylates
<b>Bartensid 128/</b> range	Alc. C/12-18 ethoxylates

Isotridecyl alcohols ethox.	Wetting agents, solubilizers (hard surfaces, stain removers, ...)
<b>Bartensid 13/</b> range	Alc. C/13-Isotridecyl ethoxylates

Long chain alcohols ethox.	Detergents and dispersants (laundry detergents in powder)
<b>Bartensid 168/</b> range	Alc. C/16-18 ethoxylates (powder versions)

\* Different degrees of ethoxylation and diluted versions available.

### → Ethoxylated/Propoxylated compounds

EO/PO fatty alcohols	Controlled foam (dishwashing rinse aid, ...)
<b>Bartensid EP/91/</b> range	Alc. C/9-11 EO/PO
<b>Bartensid EP/10/</b> range	Alc. C/10-Isodecyl EO/PO
<b>Bartensid EP/124/</b> range	Alc. C/12-14 EO/PO
<b>Bartensid EP/125/</b> range	Alc. C/12-15 EO/PO

EO/PO Block copolymers	Controlled foam (dishwashing rinse aid, ...)
<b>Bartensid EPBC/</b> range	EO/PO block copolymer, different Molecular weights and EO/PO ratios

### → Other ethoxylated compounds

Ethoxylated Castor oil	Solubilization reinforcements (hard surface cleaners, ...)
<b>Bartensid CO/</b> range	Castor oil ethoxylates
<b>Bartensid COH/</b> range	Castor oil hydrogenated ethoxylates

Fatty Amines ethox.	Thickeners in acid media cleaners, degreasers, ...
<b>Bartensid</b> OFAM/ range	Oleyl amine ethoxylates
<b>Bartensid</b> TFAM/ range	Tallow fatty amine ethoxylates

Alkanolamides ethox.	Oil Emulsifiers
<b>Bartensid</b> MEA/030	Oleyl monoethanolamide 4-EO

→ Other non-ionic

Sorbitan esters	W/O emulsifiers (aerosols)
<b>Bartensid</b> SMO	Sorbitan monooleate

Ethoxylated sorbitan esters (POLYSORBATE)	Solubilizers (aerosols, ...)
<b>Bartensid</b> SMO/20	POLYSORBATE 80: Sorbitan monooleate 20-EO

Fatty acid alkanolamides	Rheology modifier, foam booster, wetting, antistatic
<b>Bartensid</b> DEA/C	Coconut diethanolamide
<b>Bartensid</b> MEA/C	Coconut monoethanolamide

Ethoxylated / esterified glycerins	Detergent, solubilizer, controlled foam, good ecotoxicologic profile
<b>Bartensid</b> PGC/070	PEG-7 glyceryl cocoate

Amine oxides	Foam boosters, thickeners in oxidizing media (bleaching products, ...)
<b>Bartensid</b> OAD/30	Decyl amine oxide, 30%
<b>Bartensid</b> OAL/30	Lauryl amine oxide, 30%
<b>Bartensid</b> OAM/30	Miristyl amine oxide, 30%
<b>Bartensid</b> OAC/32	Coconut amine oxide, 30%
<b>Bartensid</b> OCAPA/30	Cocoamidopropylamine oxide, 30%

Alkyl polyglucosides	Detergents, foaming agents, stability at extreme pH, 100% renewable
<b>Bartensid</b> APG/06 75%	C6 APG, 75% (Hexyl Glucoside)
<b>Bartensid</b> APG/08 60%	C8-iso APG, 60% (Isooctyl Glucoside)
<b>Bartensid</b> APG/0810 65%	C8-10 APG, 65% (Capryl-Caprylyl Glucoside)
<b>Bartensid</b> APG/0810 70%	C8-10 APG, 70% (Capryl-Caprylyl Glucoside)
<b>Bartensid</b> APG/10 50%	C8-14 APG, 50% (Decyl Glucoside)
<b>Bartensid</b> APG/0814 50%	C8-14 APG, 50% (Cocoyl Glucoside)
<b>Bartensid</b> APG/0814 50% (I)	C8-14 APG, 50%
<b>Bartensid</b> APG/124 50%	C12-14 APG, 50% (Lauryl Glucoside)





## Anionic Surfactants

Alpha-olefin sulfonates	Detergents, foaming agents, emulsifiers, low irritability
<b>Bartensid AOS 38%</b>	Sodium alpha-olefin sulfonate, 38%
<b>Bartensid AOS/14 94 N</b>	Sodium alpha-olefin C/14 sulfonate, 94% needles
<b>Bartensid AOS/124 93% P</b>	Sodium alpha-olefin C/12-14 sulfonate, 93% powder
<b>Bartensid AOS/146 93% P</b>	Sodium alpha-olefin C/14-16 sulfonate, 93% powder

Alkan sulfonates	Detergents, foaming agents, emulsifiers (hand dishwasher, ...)
<b>Bartensid SAS/30</b>	Sodium alkan C/14-17 sulfonate, 30%
<b>Bartensid SAS/40</b>	Sodium alkan C/14-17 sulfonate, 40%
<b>Bartensid SAS/60</b>	Sodium alkan C/14-17 sulfonate, 60%

Alkyl benzenesulfonic acid and its salts	Detergents, foaming agents, hydrotropes
<b>Bartensid LABSA 96%</b>	Dodecylbenzenesulfonic acid (LABSA), 96%
<b>Bartensid LAB/NA 80% P</b>	Dodecylbenzenesulfonic acid, sodium salt, 80% powder

Alkyl ether sulfates and Alkyl sulfates	Foaming agents, solubilizers, hydrotropes
<b>Bartensid LES 27%</b>	Sodium lauryl ether sulfate, 27% (2-EO) (MIT/CIT)
<b>Bartensid LES 27% (1)</b>	Sodium lauryl ether sulfate, 27% (2-EO) (alkaline pH)
<b>Bartensid LES 70%</b>	Sodium lauryl ether sulfate, 70% (2-EO)
<b>Bartensid SLS 30% (1)</b>	Sodium lauryl sulfate, 30% (alkaline pH)
<b>Bartensid SLS - Solid</b>	Sodium lauryl sulfate, powder, granules and needles
<b>Bartensid TLS 40%</b>	Triethanolamine lauryl sulfate, 40%
<b>Bartensid 2EHS 40%</b>	Sodium 2-ethylhexyl sulfate, 40%

Alkyl sarcosinates	Detergents, foaming agents, low irritability, corrosion inhibitors
<b>Bartensid SL/SARC 30% (1)</b>	Sodium lauroyl sarcosinate, 30% (alkaline pH)

Alkyl taurates	Mild foaming agents, sulphate-free, stable over a wide pH range
<b>Bartensid ST/MO 40%</b>	Sodium methyl oleyl taurate, 40%
<b>Bartensid ST/MO 75% P</b>	Sodium methyl oleyl taurate, 75% powder
<b>Bartensid ST/MC 30%</b>	Sodium methyl cocoyl taurate, 30%

Soaps	Grease removers and emulsifiers, from renewable sources
<b>Bartensid OFA-K 50%</b>	Potassium Oleate, 50%
<b>Bartensid CFA-K 35%</b>	Potassium Cocoate, 35%

## Amphoteric Surfactants

Alkyl amidopropylbetaines	Foam boosters, thickeners, low irritability
<b>Bartensid</b> CAPB/30	Cocoamidopropylbetaine, 30%
<b>Bartensid</b> CAPB/40	Cocoamidopropylbetaine, 40%
<b>Bartensid</b> CAPB, powder	Cocoamidopropylbetaine, powder

Iminodipropionates	Hydrotropes, good stability at extreme pH
<b>Bartensid</b> CidPS 30%	Sodium cocoiminodipropionate, 30%
<b>Bartensid</b> EHidPS 40%	Sodium 2-Ethylhexyliminodipropionate, 40%

## Cationic Surfactants

Esterquats of fatty acids	Softeners, antistatic (fabric softeners, water repellents, ...)
<b>Bartensid</b> QUAT/85	TEA-esterquat of tallow fatty acid, 85%
<b>Bartensid</b> QUAT/90	TEA-esterquat of tallow fatty acid, 90%
<b>Bartensid</b> QUAT-O/90	TEA-esterquat of oleyl fatty acid, 90%



## Tailor-made Solutions and Auxiliary products

### Concentrated Blends

<b>BD Blend BCRL-SC</b>	Concentrated blend for the formulation of liquid laundry detergent.
<b>BD Blend BCVM / 60</b>	Concentrated blend for the formulation of hand dishwashing liquids.

\* Other concentrated blends available upon request.

### Tailor-made solutions

Solutions: Dilutions of solid products into water or other solvents
Mixtures: Multi-component formulations tailored to each customer need
Outsourcing: Pre-mixes tailored to customer needs

### Products for waste water treatment

<b>BD Depural HB:</b> Aluminum polychloride, 10%, highly alkaline
<b>BD Depural S:</b> Aluminum sulphate, 8%
<b>BD Depural:</b> Aluminum polychloride 18%, 14%, 10%
<b>Depurcal FLOW:</b> Calcium hydroxide in suspension
<b>Depurcal:</b> Calcium hydroxide
<b>Depurfer 00:</b> Ferrous chloride
<b>Depurfer 100:</b> Ferric chloride, 40%
<b>Depurfer SF:</b> Ferric sulphate
<b>Oxitap:</b> Potassium permanganate, standard and "free flowing"
Sodium bisulphite 40% and other dilutions
Sodium metabisulphite
Vacuum salt, tabs

\* Other products for water treatments available.

### Defoaming Agents

<b>BD Antiskum 2125</b>	Fatty Alcohol based defoamer
<b>BD Antiskum 2416</b>	Polyalkoxyesters based defoamer
<b>BD Antiskum 4132</b>	Silicone defoamer
<b>BD Antiskum 4716</b>	Non ionic surfactants and polysiloxanes based defoamer
<b>BD Antiskum 5111</b>	Oil based defoamer

\* Other defoaming agents available in our BD ANTISKUM range.

### Absorbents

<b>Absorb</b>	High efficiency absorbent
<b>BD Carbon</b>	Activated carbon, different particle sizes
Sodium bentonite	
Sepiolite, granular	
Talcum powder	



Barcelonesa Group is a multinational holding company that brings together highly specialized companies in the chemical industry for all industrial sectors. We are committed to good chemistry in more than 70 countries and with more than 3,000 customers.

We research, innovate, develop, handle, store, distribute and advise. We guarantee efficient, reliable and tailor-made chemical solutions for our customers in all sectors of activity.

**Our commitment to bring value to the industry has led us to act in three business areas:**



### Chemicals

Comprehensive service in the production, distribution and trading of chemical products for all sectors of activity.



### Nutrition & Health

Integral service around distribution, technical advice and blending of raw materials, additives and ingredients for the human and animal nutrition and agrochemical sector.



### Logistics

Integral logistics of hazardous chemical and food products: storage, handling, packaging and transport to destination in the Iberian Peninsula.

**The main indicators of our activity:**

**+ 80 years**

of experience  
in the sector

**+ 3.000 clients**

around the world  
trust us

**+ 400 experts**

to bring you  
solutions

**+ 70.000 m<sup>2</sup>**

storage  
capacity

**+80 countries**

where we generate  
business

**+ 250 M€**

consolidated group  
turnover





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