

# DAIRY INDUSTRY

Food safety and quality



## HIGHLIGHTS

Technical advice | Dairy experts

Experts in water chemistry and application technology

Holistic approach to the product portfolio

Product innovations

### Individual and sustainable:

- Low chlorate
- Low heavy metal content
- Nanoparticle-free
- MOSH/MOAH-free
- Melamine-free

Your challenge – Our solution

# PRODUKT PORTFOLIO

③  
ASEPTIC PACKAGING TREATMENT

①-②-③-④  
CLEANING AND DESINFECTION

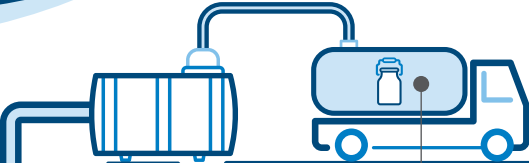
①-②-③-④  
LUBRICANT

②  
PROCESSING AIDS AND ADDITIVES

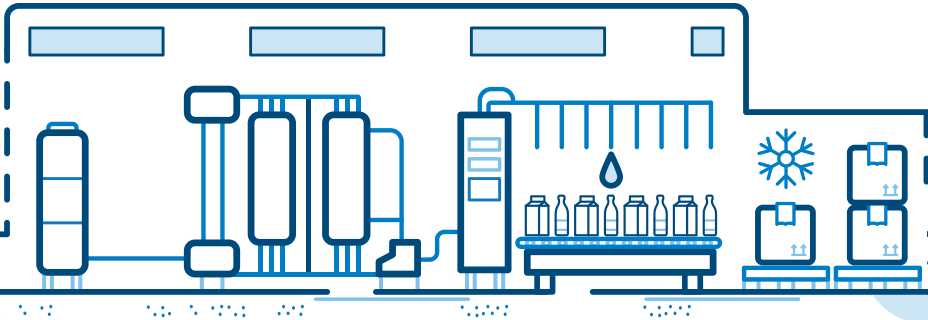
①-②-③-④  
WATER TREATMENT  
Cooling water treatment, steam generation, biocidal products, water treatment



PRODUCTION OF RAW MILK



TRANSPORTATION OF RAW MILK



①

②

③

④

Raw milk delivery and stacking

Processing and production

Filling and packaging

Storage and cooling

MILK PROCESSING

## ASEPTIC PACKAGING TREATMENT

3

Valsterane® 35 B	Valsterane® 35 S	Valsterane® 35 SB	Valsterane® 35 S-HP
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## CLEANING AND DISINFECTION

1-2-3-4

Additive acids and alkalis	Nitric acid 10% - 65%
Buffered acids and alkalis	Peracetic acid 5% - 15%
Caustic soda 5% - 50%	Phosphoric acid 10% - 85%
Disinfection products (various types)	Potassium hydroxide solution 5% - 50%
Formic acid 10% - 99%/100%	Sodium chlorite solution 13% - 25%
Hand disinfectant (various types)	Sodium hypochlorite solution 2% - 13%
Hydrochloric acid 9% - 37%	Sulphuric acid 2% - 98%
Hydrogen peroxide 35% - 49,5%	Surface cleaners (various types)

## LUBRICANTS

1-2-3-4

Belt lubrication	Multi-purpose/high-temperature greases
Maintenance products for factory maintenance	Oils, hydraulic systems, compressors, heat exchangers, transmission applications

## PROCESSING AIDS AND ADDITIVES (1/2)

2

Asorbic acid, E300	Dicalcium phosphate, E341, FCC, anhydrous
Calcium carbonate, E170, FCC	Dipotassium phosphate, E340, <b>NutriNovum®</b>
Calcium chloride, E509, FCC	Disodium phosphate, E339, FCC, anhydrous
Calcium chloride and solution, E509, FCC	Fructose, FCC
Calcium hydroxide, E524, FCC, <b>NutriNovum®</b>	Hydrochloric acid, E507
Calcium hydroxide, E526, FCC	Iron(III) pyrophosphate, FCC
Calcium lactate gluconate, FCC	Iron(II) sulphate 7-hydrate, FCC
Calcium propionate, E282, FCC	Lactic acid, E270, FCC
Carboxymethylcellulose, <b>Walocel™</b>	Magnesium chloride, E511, FCC
Citric acid, E330, FCC, anhydrous	Magnesium citrate, Ph.Eur., anhydrous
Citric acid solution, E330, FCC	Magnesium hydroxide, E528
Defoamers (various products), 471, E900	Magnesium sulphate, FCC
Dextrose monohydrate, FCC	Monosodium phosphate, E339, anhydrous

## PROCESSING AIDS AND ADDITIVES (2/2)

2

Potassium bicarbonate, E501, FCC	Sodium molybdate, dihydrate
Potassium chloride, E508, FCC	Sodium sulphite, E221, FCC, anhydrous
Potassium chloride with anti-caking agent, E508, FCC	Sorbitol, E420
Potassium hydroxide, E525, FCC, <b>NutriNovum®</b>	Tartaric acid, E334
Potassium hydroxide solution, E525, FCC	Tetra sodium pyrophosphate, E450, FCC, anhydrous
Potassium iodide, FCC	Tripotassium citrate, E332, anhydrous, 1H <sub>2</sub> O
Potassium sorbate, E202, granulate, powder	Trisodium citrate, E331, FCC, anhydrous
Potassium sulphate, E515, FCC	Trisodium phosphate, E339
Phosphoric acid, E338	Xylitol, E967
Sodium bicarbonate, E500, FCC	Zinc gluconate, FCC
Sodium carbonate, E500, FCC	Zinc lactate
Sodium chloride, Ph.Eur.	Zinc sulphate, FCC
Sodium hydroxide solution, E524, FCC, <b>TRACELIGHT™</b>	

## WATER TREATMENT

1 2 3 4

<b>Biocidal products</b>		
Cooling water	Drinking water	Process water (e.g. ice water, vapour condensation)
<b>Cooling water treatment</b>		
Corrosion protection	Dispersants	Hardness stabilisation
<b>Steam generation</b>		
Condensate protection	Descaling agents	Oxygen binders
<b>Water treatment</b>		
Antiscalants for reverse osmosis systems	Ion exchangers resins	Precipitation agents
	pH value regulation	Regenerating salt
Flocculation aids		

## EXPERT CONSULTING



1 2 3 4

Technical advice

Application consulting for the entire milk processing process

Consulting relating to water

## CLEANING AND DISINFECTION



1 2 3 4

Customised solutions  
(including additives or mixtures)

Various packaging/containers: canisters 5 - 30 kg, drums 65 - 230 kg, containers 600 - 1,300 kg, donning tanks 2 - 18 mt, distance deliveries FTL

## LUBRICANTS



1 2 3 4

Lubricant optimisation | DIN EN ISO 50001

Lubricant plans

Food-safe product portfolio H1 quality, MOSH/MOAH, POSH, halal and kosher certification)

## PROCESSING AIDS AND ADDITIVES



2

Customised specifications and analyses

Food qualities (E, FCC)

Food safety (FSSC 22000)

Halal and kosher certification

Ultrapure qualities (low chlorate, minimised heavy metals, nanoparticle-free, MOSH/MOAH-free, melamine-free)

Various packaging/containers

## ASEPTIC PACKAGING TREATMENT



3

Technical on-site support  
(including with switchovers)

Residue analyses

Valsterane® | Hydrogen peroxide for aseptic packaging treatment

Low evaporation residue possible up to < 5 mg/kg

OEM confirmations from ELOPAK, GEA, Krones, SIDEL, SIG, Tetra-Pak, BOSCH, Sealed Air, SERAC, KHS, Stork

EVC® | Products for water treatment

## WATER TREATMENT



1 2 3 4

### STEAM GENERATION, COOLING WATER, ICE WATER, DRINKING AND WASTEWATER TREATMENT

Lab tests

Legionella monitoring

On-site consulting on all aspects of water chemistry

Hygiene inspections of evaporative cooling systems

VDI training partner for VDI 2047  
Hygienically sound operation of evaporative cooling systems

Risk assessments (risk assessment according to 42nd BImSchV)

EVC® | Products for water treatment

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Companies of

