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Our Partners



Active Pharmaceutical Ingredients

Strategic APIs



Zhejiang Haizhou Pharmaceutical Co., Ltd.

Product Name	Documentation	Use
Guaifenesine	CEP	Expectorant
Potassium Guaiacolsulfonate	ASMF	Expectorant

Kingchem Laboratories

Product Name	Documentation	Use
Tripelennamine HCL	ASMF	Antihistamine

Medilux Laboratories

Product Name	Documentation	Use
Metacresol	ASMF	Antidiabetes
Inosine pranobex	ASMF	Antiviral
Bromfenac sodium	ASMF	Ophthalmic
Bumetanide	ASMF	Diuretic

Amoli

Product Name	Documentation	Use
Diclofenac Diethylammonium	ASMF, USDMF	Anti-inflammatory
Diclofenac free acid	ASMF, USDMF	Anti-inflammatory
Diclofenac potassium	CEP, ASMF, USDMF	Anti-inflammatory
Diclofenac sodium	CEP, ASMF, USDMF	Anti-inflammatory
Clotrimazole	CEP, USDMF	Antifungal
Chlorthalidone	ASMF, USDMF	Diuretic
Levetiracetam	CEP, USDMF	Anti-epileptic

N.R Oils

Product Name	Documentation	Use
Zinc undecylenate	ASMF	Antifungal
Undecylenic acid	ASMF	Antifungal

Shandong Xinhua Pharmaceutical Co.

Product Name	Documentation	Use
Caffeine anhydrous	CEP	CNS

D.K Pharmachem

Product Name	Documentation	Use
Probenesid	ASMF	Uricosuric
Itopride HCL	ASMF	Prokinetic agent

Veer Chemie

Product Name	Documentation	Use
Benzyl nicotinate	ASMF	Rubefacient
Ethyl nicotinate	ASMF	Rubefacient
Methyl nicotinate	ASMF	Rubefacient

Other APIs

Product Name	Documentation	Use
Apixaban	ASMF	Anticoagulant
Bromhexine HCl	CEP	Expectorant
Cetrimide	ASMF	Antiseptic
Cetylpyridinium chloride	ASMF	Antiseptic
Chlorhexidin diacetate	ASMF	Antiseptic
Chlorhexidin dihydrochloride	ASMF	Antiseptic
Chlorhexidin digluconate	CEP	Antiseptic
Clotiazepam	ASMF	Anxiolytikum
Gentamicin sulfate	CEP	Antibiotics
Griseofulvin	CEP	Antimykotikum
Ketamine HCl	CEP	Antibiotics
Lidocain base	ASMF	Anasthetic
Lidocain HCl	ASMF	Anasthetic
Lincomycin	CEP	Antibiotics
Methylphenobarbital	CEP	Anasthetic
Metronidazole	CEP	Antiprotozoal

Product Name	Documentation	Use
Oxytocin	ASMF	Hormons
Perazine dimaloate	ASMF	Antipsychotic
Prednisolone	CEP	Antiinflammatory
Promethazine HCL	ASMF	Sedative
Riboflavin sodium phosphate	CEP	Vitamin
Risperidon	CEP/USDMF	Antipsychotic
Rivaroxaban	ASMF	Anticoagulant
Rosuvastatin Calcium	CEP/USDMF	Statin
Solifenacin succinate	ASMF	Antimuscarinic
Sugammadex sodium	ASMF	Revelsal Anesthesia
Sucralfate	CEP	Gastrointestinal
Valproic acid	CEP	Anticonvulsant
Vildagliptin	ASMF	Antidiabetic
Xipamide	ASMF	Diuretic

No commercial sales will be made to countries with existing patents that infringe patent rights.

Avesta Pharma

Macrogol



Product	Description	Grade
Macrogol 3350	Polyethylene glycol, PEG	BP/EP/NF Certificate of suitability (CEP)
Macrogol 4000	Polyethylene glycol, PEG	BP/EP/NF Certificate of suitability (CEP)

- Active for laxatives
- ICH Q7 GMP
- EDMF Macrogol 3350/4000 available

DuPont™ Liveo™

Simethicones



Product	Description	Grade
Liveo™ Q7-2243 LVA, Simethicone USP	Mixture of low-volatile PDMS Fluid and silicon dioxide	USP/ PhEUR Certificate of Suitability (CEP)
Liveo™ Antifoam M Compound	Mixture of PDMS and silicon dioxide	PhEUR Certificate of Suitability (CEP)

- Active for prescription/ OTC/ medical device antifoamulents
- Foam control in medical and pharmaceutical applications
- ICH Q7 GMP
- FDA registered production site

Grillo Zinc Powder GmbH

Zinc Oxide Pharma



Product	Description	Grade
Zinc Oxide Pharma 4 API	High purity pharmaceutical zinc oxide 99.995 % ZnO	EP/USP/BP CEP, ASMF
Zinc Oxide Pharma 6 API	High purity pharmaceutical zinc oxide 99.995 % ZnO	EP/USP/BP CEP, ASMF
Zinc Oxide Pharma 8 API	High purity pharmaceutical zinc oxide 99.995 % ZnO	EP/USP/BP CEP, ASMF

- Pharmaceutical API
- Wound healing, antiseptic effect, antimicrobial effect
- GMP certification available
- CEP request submitted, expected within 2019
- EU-ASMF available

Tereos

Glucose Monohydrate Injectable Grade



Product	Description	Grade
Meridex™	Glucose monohydrate Tested on bacterial endotoxin (L.A.L test)	Dextrose USP/NF Glucose Monohydrate EP
Meridex™ PF	Glucose monohydrate Tested on pyrogens (Ph. Eur.)	Dextrose USP/NF Glucose Monohydrate EP

- Parenteral nutrition, infusion solutions, haemodialysis (HD) and peritoneal dialysis (PD)
- Matches key properties such as purity, flowability and product stability during processing

Pharmaceutical Excipients

Adeka

Defoaming Surfactants



Product	Description	Grade
ADEKA NOL LG-109	EO/PO based defoamer	For use in pharmaceutical processing
ADEKA NOL LG-126	EO/PO based defoamer	For use in pharmaceutical processing

- Bio-based polyether type antifoaming agent
- Processing aid in the production of pharmaceuticals and cosmetics
- Fermentation processes (e.g. of astaxanthin, EPA/DHA, amino acids and yeast)

Avesta Pharma

Macrogol



Product	Description	Grade
Macrogol 200	Polyethylene glycol, PEG	NF
Macrogol 400	Polyethylene glycol, PEG	EP/NF
Macrogol 3350	Polyethylene glycol, PEG	BP/EP/NF Certificate of suitability (CEP)
Macrogol 4000	Polyethylene glycol, PEG	BP/EP/NF Certificate of suitability (CEP)
Macrogol 6000	Polyethylene glycol, PEG	BP/EP/NF

- Solubility enhancer, non-alcohol diluent
- Filler
- ICH Q7 GMP

Covation Biomaterials

Propanediol



Product	Description	Grade
Zemea® USP-NF Propanediol	1,3-Propanediol	USP/NF Naturally derived

- Alternative to petroleum-based glycols and glycerin – naturally derived
- Preservative-booster and moisturiser

DuPont™ Liveo™

Simethicone and Emulsion



Product	Description	Grade
Liveo™ Q7-2243 LVA, Simethicone USP	Mixture of low-volatile PDMS Fluid and silicon dioxide	USP/ PhEUR Certificate of Suitability (CEP)
Liveo™ Antifoam M Compound	Mixture of PDMS and silicon dioxide	PhEUR Certificate of Suitability (CEP)
Liveo™ Medical Antifoam A Compound	Mixture of PDMS and silicon dioxide	USP
Liveo™ Q7-2587 30% Simethicone Emulsion USP	Emulsion containing 30% Simethicone	USP
Liveo™ Medical Antifoam C Emulsion	Emulsion containing 30% Simethicone	USP

- ICH Q7 GMP
- Foam control for pharmaceutical application and formulation

Silicone Fluids



Product	Description	Grade
Q7-9120 Silicone Fluid 20 cSt 100 cSt 350 cSt 500 cSt 1.000 cSt 12.500 cSt	Dimethicone, Polydimethylsiloxane (PDMS)	USP/EP

- Skin protectant, smooth feel, long lasting lubrication
- Creams, gels and sticks
- Excipient for topical skin care formulations & topical as well as oral pharmaceutical applications

Topical Ingredient Fluids



Product	Description	Grade
TI-1050 Fluids 1,5 cSt	Volatile dimethicone Linear polydimethylsiloxane	For use in topical medical device applications
TI-1050 Fluids 5 cSt 10 cSt	Low molecular weight dimethicone Linear polydimethylsiloxane Non-volatile	For use in topical medical device applications
TI-1050 Fluids 50 cSt 100 cSt 200 cSt 350 cSt 1.000 cSt	Intermediate molecular weight dimethicone Linear polydimethylsiloxane Non-volatile	For use in topical medical device applications
TI-1050 Fluids 12.500 cSt 30.000 cSt 100.000 cSt	High molecular weight dimethicone Linear polydimethylsiloxane Non-volatile	For use in topical medical device applications

- Non occlusive
- Lubricant
- Spreading agent

Volatiles and Cyclics



Product	Description	Grade
Q7-9180 Silicone Fluid 0,65 cSt 1 cSt	Hexamethyldisiloxane (0,65 cSt) Octamethyltrisiloxane (1 cSt)	For use in topical applications
ST-Cyclomethicone 5-NF ST-Cyclomethicone 56-NF	Cyclopentasiloxan (D5) Cyclopenta-/Cyclohexasiloxan (D5/D6)	Cyclomethicone NF For use in topical applications

- Volatile carrier for sprays or semi-solid formulations
- No cooling effect, non-stinging

Specialty Fluids



Product	Description	Grade
ST-Dimethiconol 40	Short, hydroxy-terminated dimethicone	For use in topical pharmaceutical applications

- smooth feel, long lasting lubrication
- Excipient for topical skin care formulations & topical pharmaceutical applications
- Creams, gels and sticks

Blends



Product	Description	Grade
Dimethiconol Blend 20	Ultra-high viscosity silicone gum (6%) in non-volatile dimethicone Non occlusive film former	For use in topical pharmaceutical applications
Silmogen Carrier	Ultra-high viscosity silicone gum (1%) in hexamethyldisiloxane Carrier for sprays	For use in topical pharmaceutical applications

- Non occlusive film former
- Flexible and substantive fiilms
- Long lasting

Product	Description	Grade
TE-9320 Silicone Elastomer Blend	Dimethicone Crosspolymer (12%) in a linear volatile silicone fluid (2cSt)	For use in topical applications
TE-9330 Silicone Elastomer Blend	Dimethicone Crosspolymer (12%) in a linear non-volatile silicone fluid (5cSt)	For use in topical applications

- Provides unique smooth feel
- Thickener for anhydrous phases such as silicones

Product	Description	Grade
TE-9720 Silicone Resin Blend	Dimethicone (100cSt) and Trimethylsiloxisilicate (30%)	For use in topical applications
TE-9721 Silicone Resin Blend	Caprylyl Methicone and Trimethylsiloxisilicate	For use in topical applications

- Film former
- Permeable barrier film
- Long lasting film
- Excellent wash-off resistance
- Non occlusive

Product	Description	Grade
MG-2001	Hexamethyldisiloxane 94% W/W Octamethyltrisiloxane 5% W/W Dimethicone 20cSt 1% W/W	For use in topical medical device applications

- Silicone Blend for adhesive removal products (excellent cleaning ability)
- Quick drying time
- Skin protectant

Customized Blends



Other customized Silicone Blends are available upon request.

Product	Description	Grade
Customized Blends	Pure Silicone and Silicone + organic blends	For use in topical medical device & topical pharmaceutical applications

- Bulk production of gels, ointments, emulsions and spray formulations according to customer specification

Grillo Zinc Powder GmbH

Zinc Oxide Pharma



Product	Description	Grade
Zinc Oxide Pharma 4 Excipient	High purity pharmaceutical zinc oxide 99.995% ZnO	EP/USP/BP
Zinc Oxide Pharma 6 Excipient	High purity pharmaceutical zinc oxide 99.995% ZnO	EP/USP/BP
Zinc Oxide Pharma 8 Excipient	High purity pharmaceutical zinc oxide 99.995% ZnO	EP/USP/BP
Grillosense	High purity pharmaceutical zinc oxide; 99,7% ZnO	COSMOS, GMP

- Pharmaceutical excipient
- Wound healing, antiseptic effect, antimicrobial effect
- Complies with EU GMP guidelines

MEGGLE Lactose

Pharmaceutical Lactose and Co-processed Excipients



Product	Description	Grade
GranuLac®	Milled Lactose Monohydrate Range of specific particle sizes	Lactose Monohydrate (Ph. Eur. / USP-NF / JP ¹)
SorboLac® 400	Milled Lactose Monohydrate	Lactose Monohydrate (Ph. Eur. / USP-NF / JP)
PrismaLac® 40	Sieved Lactose Monohydrate	Lactose Monohydrate (Ph. Eur. / USP-NF / JP)
CapsuLac® 60	Sieved Lactose Monohydrate	Lactose Monohydrate (Ph. Eur. / USP-NF / JP)
SacheLac® 80	Sieved Lactose Monohydrate	Lactose Monohydrate (Ph. Eur. / USP-NF / JP)
SpheroLac® 100	Sieved Lactose Monohydrate	Lactose Monohydrate (Ph. Eur. / USP-NF / JP)
Tablettose®	Agglomerated Lactose Monohydrate Range of specific particle sizes	Lactose Monohydrate (Ph. Eur. / USP-NF / JP)
FlowLac®	Spray-dried Lactose Monohydrate Range of specific particle sizes	Lactose Monohydrate (Ph. Eur. / USP-NF / JP)
DuraLac® H	Anhydrous Lactose	Anhydrous Lactose (USP-NF / Ph. Eur. / JP)
Cellactose 80®	Co-processed, directly compressible spray agglomerate	75 % Lactose Monohydrate (Ph. Eur., USP-NF, JP) 25 % Powdered Cellulose (Ph. Eur., USP-NF, JP)
MicroceLac®100	Co-processed, directly compressible spray agglomerate	75 % Lactose Monohydrate (Ph. Eur., USP-NF, JP) 25 % Microcrystalline Cellulose (Ph. Eur., USP-NF, JP)
StarLac®	Co-processed, directly compressible spray agglomerate	85 % Lactose Monohydrate (Ph. Eur., USP-NF, JP) 15 % Maize Starch (Ph. Eur., USP-NF, JP)
CombiLac®	Co-processed, directly compressible spray agglomerate	70 % Lactose Monohydrate (Ph. Eur., USP-NF, JP) 20 % Microcrystalline Cellulose (Ph. Eur., USP-NF, JP) 10 % Maize Starch (Ph. Eur., USP-NF, JP)
RetaLac®	Co-processed, directly compressible spray agglomerate	50 % Lactose Monohydrate (Ph. Eur., USP-NF, JP) 50 % Hypromellose (Ph. Eur., USP-NF, JP)
InhaLac®	Sieved, milled and micronized Lactose Monohydrate for DPI Range of specific particle sizes	Inhaler Grade Lactose Monohydrate (USP-NF / Ph. Eur. / JP)
Lactose Monohydrate Low Endotoxin	Sieved lactose, low endotoxin content, for inhalation and parenterals	Lactose Monohydrate (Ph. Eur. / USP-NF / JP)
MicroceLac® Plus	Co-processed, directly compressible spray agglomerate	35 % Lactose Monohydrate (Ph. Eur., USP-NF, JP) 65 % Microcrystalline Cellulose (Ph. Eur., USP-NF, JP)

Nouryon

Carmellose Sodium



Product	Description	Grade
Cekol	Carmellose sodium, CMC Available in a wide range of viscosity grades	Carmellose Sodium EP Carboxymethylcellulose NF

- Tablet coating
- Thickener and rheology modifier
- Stabilisation of emulsions and suspensions

Chelates



Product	Description	Grade
Dissolvine® Na2-P	Ethylenediaminetetraacetic acid (EDTA), disodium salt, stabilizer	EP, USP, JP, PhC, FCC
Ferrazone® BP	Ferrazone® BP is the superior iron source for the pharmaceutical industries, sodium feredate	BP, FCC
Solvitar™	Ethylenediaminetetraacetic acid (EDTA), calcium salt	EP, USP, FCC

- Most widely used, very strong, cost effective and general purpose chelating agent
- The chelating agent is wrapped around the metal ion, shielding it from other interactions
- Active pH range is unique for each metal – chelating agent combination pH to low or to high, metal chelate bond is broken

Tereos

Starch



Product	Description	Grade
Meritena 141 Pharma	Maize starch powder/ Corn starch	Maize Starch EP Corn Starch NF

- Quality system based on IPEC-PQG GMP for pharmaceutical excipients
- Solid dosage forms, direct compression, capsules and powders
- Medicated confectionery, hard boiled candies, gums, chewing gums

Dextrose/Glucose



Product	Description	Grade
Meritose Pharma	Dried D-glucose/dextrose powder Dextrose monohydrate Range of specific particle sizes	Glucose Monohydrate EP Dextrose USP/NF
Mylose Pharma	Glucose syrup Dextrose equivalent and sugar spectrum	Glucose Liquid EP Liquid Glucose USP/NF
Glucomalt Pharma	Glucose syrup Dextrose equivalent and sugar spectrum	Glucose Liquid EP Liquid Glucose USP/NF
Glucodry G Pharma	Glucose syrup spray-dried Dextrose equivalent and sugar spectrum	Glucose liquid spray-dried EP

- Quality system based on IPEC-PQG GMP for pharmaceutical excipients
- Solid dosage forms, direct compression, wet and dry granulation, capsules and powders
- Liquid dosage forms, syrups, solutions, suspensions
- Medicated confectionery, hard boiled candies, gums, chewing gums

Maltodextrin



Product	Description	Grade
Maldex Pharma	Spray-dried maltodextrin powder Range of specific particle sizes	Maltodextrin EP, USP/NF
Maldex G Pharma	Spray-dried maltodextrin granulate Range of specific particle sizes	Maltodextrin EP, USP/NF

- Quality system based on IPEC-PQG GMP guidelines for pharmaceutical excipients
- Solid dosage forms, direct compression, wet and dry granulation, capsules and powders
- Liquid dosage forms, syrups, solutions, suspensions
- Medicated confectionery, hard boiled candies gums, chewing gum
- Clinical nutrition, baby food



Polyols

Product	Description	Grade
Merisorb Pharma	Crystallised Sorbitol powder (min. 97 % D-Sorbit) Range of specific particle sizes	Sorbitol EP, USP/NF
Meritol Pharma	Crystallising Sorbitol syrup Non-crystallising Sorbitol syrup	Sorbitol Liquid (crystallising) EP Sorbitol Liquid (non-crystallising) EP
Maltilite Pharma	D-Maltitol from Maltitol syrup Range of specific Maltitol contents and dry substances	Maltitol Liquid EP
Maltilite P 200 Pharma	D-Maltitol powder	Maltitol EP

- Quality system based on IPEC-PQG GMP for pharmaceutical excipients
- Solid dosage forms, direct compression, wet and dry granulation, capsules and powders
- Liquid dosage forms, syrups, solutions, suspensions
- Medicated confectionery, hard boiled candies gums, chewing gum



Sucrose

Product	Description	Grade
Sucrose solution	Perfectly clear solution, very low colour level	Made from USP/NF Sucrose
Compressuc® MS	Spray-dried Sucrose direct compressible Anhydrous, easily soluble in water	USP/NF Compressible Sugar
Compressuc® PS	Spray-dried Sucrose direct compressible Anhydrous, easily soluble in water	USP/NF Sucrose EP Sucrose
Alveosucres Fine Grains	Agglomerated Sucrose	EP Sucrose
Pearl sugar 30	Agglomerated Sucrose	EP Sucrose
Pure icing sugar	Milled Sucrose	EP Sucrose
Granulated sugars	Screened Sucrose Particle size 600-2000 µm	EP Sucrose
Caster sugars	Screened Sucrose Particle size 250/400 µm	EP Sucrose



Sucrose With Functional Additives

Product	Description	Grade
Icing sugar with starch	Milled Sucrose + Starch	USP/NF Confectioner's Sugar

- Quality system based on IPEC-PQG GMP for pharmaceutical excipients
- Solid dosage forms, direct compression, wet and dry granulation, capsules, powders and sugar spheres
- Liquid dosage forms, syrups, solutions, suspensions, dry syrups

Ueno Fine Chemicals Industry

Parabens



Product	Description	Grade
Methylparaben	Mehtylparaben for preservation	Ph.Eur., USP, BP, NF REACH
Ethylparaben	Ethylparaben for preservation	Ph.Eur., USP, BP, NF REACH
Propylparaben	Propylparaben for preservation	Ph.Eur., USP, BP, NF REACH

Rasula Pharmaceuticals and Fine Chemicals

Paraben Salts



Product	Description	Grade
Sodium Methylparaben	Sodium Methylparaben for preservation	Ph. Eur. REACH
Sodium Ethylparaben	Sodium Ethylparaben for preservation	Ph.Eur.
Sodium Propylparaben	Sodium Propylparaben for preservation	Ph. Eur. REACH

Various Excipients

Stearates



Product	Description	Grade
Magnesium Stearate	Vegetable grade FCC	Magnesium Stearate EP/NF
Calcium Stearate	Vegetable grade FCC	Calcium Stearate NF
Sodium Stearate	Vegetable grade	Sodium Stearate EP/NF
Zinc Stearate	Vegetable grade	Zinc Stearate EP/NF
Aluminium Stearate	Vegetable grade	
Potassium Stearate	Vegetable grade	
Stearic Acid 50 % / 70 %	Vegetable grade FCC	Stearic Acid EP, USP/NF, JP, BP

- Tableting agent
- Lubricant
- Flowability agent
- Separating agent
- Water repellent

DuPont Liveo™ Tubing

Silicone Tubing



Product	Description	Grade
Pharma Tubing 50 Shore A 65 Shore A 80 Shore A	Platinum-cured silicone tubing For high purity pharmaceutical fluid transfer and filling applications	EP 3.1.9. "Silicone elastomer for closures and tubing" USP Class VI, FDA and ISO criteria cGMP
Pharma Reinforced Tubing 65 Shore A	Platinum-cured silicone tubing Fiber-reinforced tubing for high-pressure and vacuum applications	EP 3.1.9. "Silicone elastomer for closures and tubing" USP Class VI, FDA and ISO criteria
Pharma Advanced Pump Tubing	Specifically formulated platinum-cured silicone tubing for peristaltic pump applications Providing up to six times the pump life of standard platinum-cured silicone tubing	EP 3.1.9. "Silicone elastomer for closures and tubing" USP Class VI, FDA and ISO criteria cGMP

- Pharmaceutical grade silicone tubing
- For high purity pharmaceutical & biotechnological fluid transfer and filling application
- Increased kink and pressure resistance with higher durometers
- Extruded from Liveo™ brand BioMedical Grade Elastomer

TPE Tubing



Product	Description	Grade
Pharma TPE Tubing 65 Shore A	Sterilizable, weldable TPE tubing for Single-use assemblies and Peristaltic pump applications Contains no peroxide by products, Chlorophenyls or PCBs	USP Class VI Plastics Test FDA and ISO criteria cGMP Class 7 clean room

- Pharmaceutical grade TPE tubing
- For transferring of ultra-pure liquids, air or steam in pharmaceutical an biotechnological manufacturing process
- High tensile strength and Burst resistance pre and post welding
- Made from Medical Grade elastomer that complies to USP Class VI Plastics Tests Requirements

UL-TPE Tubing



Product	Description	Grade
Pharma TPE Ultra-Low Temp Tubing	Sterilizable, weldable TPE tubing for biopharmaceutical process and applications that require lower storage temperatures high ductility; resistant to bend, crush and impact at -80°C	USP class VI standards ISO class 7 cleanroom

- Designed to meet biopharma processing standards and low-temperature-resistance requirements
- Good pumpability and low spallation
- Excellent burst and chemical resistance

Nouryon

Kromasil®



Product	Description	Grade
Kromasil® Column	Silica-based stationary phases for analytical HPLC for identification and quantification of substances	Reversed Phase (C4, C8, C18)
Kromasil® Bulk	Silica-based stationary phases for Preparation HPLC for purification of API's	Normal Phase (NH2, CN, Diol)



Biesterfeld 
Lab and Innovation Centre

Lab & Innovation Centre

At our Lab and Innovation Centre in Hamburg we work with our customers to develop tailored solutions. We can provide a selection of sample formulations to serve as a good starting point for your project. By including additives from our wide-ranging portfolio, we can also enhance existing formulations.

If you have an idea for a project get in touch:

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