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◆◆ Pharmaceutical &
◆◆ Nutraceutical Ingredients



Tilley has been connecting its customers to the world's premier ingredient suppliers since 1952.

We pride ourselves on a customer-centric approach, realizing that each customer has unique needs requiring customized solutions. Our team of dedicated Industry, Product and Technical Specialists have the experience and knowledge to help you develop solutions and reduce your costs of operations while providing a secure source of supply.

To help our customers meet rapidly increasing cost pressures, Tilley offers a suite of value-added services and regulatory expertise including:

- › Excipient supplier audits to IPEC GMP guidelines
- › Product testing
- › Custom blend and packaging
- › Regulated product packaging
- › Change management notification
- › Documentation and process change controls
- › Lot control
- › Container handling

Services We Offer

- › Distribution and Logistics
- › cGMP Blending and Packaging
- › Global Sourcing
- › R&D Laboratory

Distribution Points

- › Baltimore, MD
- › Minneapolis, MN
- › Dallas, TX
- › Ogden, UT

Solvents

Product	Manufacturer	Origin
Acetone	Altivia	US
Acetonitrile	Haltermann	US
Benzyl Alcohol	Emerald Kalama, Import, Hubei Greenhome	US, China
Benzyl Alcohol Parenteral	Emerald Kalama	US
Butyl, Ethyl, and Propyl Acetate	Celanese, Dow	US
Butyl, Ethyl, and Propyl Alcohol	Celanese, Dow	US
Custom Blends	Tilley	
Dimethylformamide	BASF, Taminco	US
DMSO	Arkema	EU
Ethanol	ADM, Equistar, GPC	US
Hexane and Heptane	Exxon, Citgo, Conoco-Phillips, Shell	US
Hexane and Heptane Hi-Purity	Conoco-Phillips, Haltermann	US
Isopropyl Alcohol - Tech and USP	Dow, Lyondell	US
Methanol (Traceable)	SCC	Trinidad
Methyl Acetate	Celanese	US
Methyl Ethyl Ketone	Dow, Exxon, Sasol	US
Methyl ISO Butyl Ketone	Sasol, Celanese, Solvay	US
Methylene Chloride	Oxychem, Solvay	US
MTBE	Haltermann, Lyondell	US
ST-Cylcomethicone	Elkem	US
THF	Lyondell, BASF	US
Triethylamine	BASF, Taminco	US
Toluene/Xylene	Multiple	US

Acids, Alkalis, Buffers, Defoamers

Product	Manufacturer	Origin
ACES Buffer	Avantor, BioSpectra	US
Acetic Acid	Celanese, BP	US
ADA Buffer	Avantor, BioSpectra	US
Amino Acids (Most)	EMD, Research Organics	US
Ammonium Acetate	Niacet, Avantor	US
Ammonium Carbonate	Keystone Universal	US
Ammonium Hydroxide	Avantor, BioSpectra	US
AMP Buffer	Avantor, BioSpectra	US

Acids, Alkalis, Buffers, Defoamers Continued

Product	Manufacturer	Origin
AMPD Buffer	Avantor, BioSpectra	US
Benzoic Acid	Avantor, Wuhan Youji, Columbus, Emerald Kalama	US, China
Boric Acid	US Borax, Etimine	EU, Turkey
Calcium Disodium EDTA (CA)	Dow, BASF	US
CAPS Buffer	Avantor, BioSpectra	US
CHAPS Buffer	Avantor, BioSpectra	US
CHES Buffer	Avantor, BioSpectra	US
Citric Acid	ADM, JBL, Tate & Lyle, Import	US, Canada
Disodium EDTA (NA)	BASF, DOW, Import	US
Fumaric Acid	Bartek, Tate & Lyle, Thirumalai	US, Canada, India
Glypure® (Glycolic Acid)	DuPont	US
HEPES Buffer	Avantor, BioSpectra	US
Hydrochloric Acid	Regional (Tech), Avantor (NF)	US
Lactic Acid	Galactic, Purac, JBL, Jindan	US, EU, China
Magnesium Acetate	Avantor, Niacet	US
Malic Acid	Tate & Lyle, Thirumalai	US, India
Monobasic Potassium Phosphate	Avantor, Jost Pharmaceutical	US
Nitric Acid	Avantor (Reagent)	US
Phosphate Buffer	Avantor, Jost Pharmaceutical	US
Phosphoric Acid	ICL, Innophos, Nutrien	US
Potassium Acetate	Niacet	US
Potassium Citrate	ADM, JBL	US, EU
Potassium Hydroxide	Oxy, Ashta, Kuehne	US
Potassium Phosphate	Avantor, Jost Pharmaceutical	US
Propionic Acid	Dow	US
Simethicone 100%	Elkem	France, China, US
Simethicone Emulsion 30% USP	Elkem	France, China, US
Sodium Bicarbonate	Church & Dwight	US
Sodium Borate	Avantor, US Borax	US, France
Sodium Carbonate	Avantor, JOST, Genesis Alkali	US
Sodium Citrate	ADM, JBL	US, EU
Sodium Hydroxide	Avantor (NF), Biospectra, Kuehne	US
Sodium Lactate	Galactic, Purac, Ferro	US
Sodium and Potassium Acetates	Jarchem, Avantor, Niacet	US
Sodium Phosphate	Avantor, Jost Pharmaceutical	US
Succinic Acid Powder	Avantor, BioAmber	US
Sulfuric Acid	Avantor (NF)	US
Tartaric Acid	Gonzalo Castello	US, Italy

Acids, Alkalis, Buffers, Defoamers Continued

Product	Manufacturer	Origin
Tris Base	Avantor, BioSpectra	US
Tris Buffers (Various)	Avantor, BioSpectra	US
Tris HCL	Avantor, BioSpectra	US
VerseneTM	Dow	US
Zinc Acetate	Niacet	US

Emulsifiers, Surfactants, Carriers

Product	Manufacturer	Origin
Carboxymethylcellulose (CMC)	Ashland, Import	Belgium, US
Carrageenan	Gelymar	US
Cetyl Alcohol	Sasol, P&G, Import	US, US, Thailand
Diethanolamine	Indorama	US
Dimethiconal Blend 20	Elkem	US
Dimethicone Fluid Q7-9120	Elkem	US
Glycerol Stearates	Stepan, Oleon, Corbion	US
Isopropyl Myristate	Acidchem (IOI Oleo), Oleon	US, Indonesia
Isopropyl Palmitate	Hallstar, Oleon	US
Hypromellose (HPMC)		US
Methylcellulose (MC)		US
Mono- and Diglycerides	Corbion, Oleon	US
Monoethanolamine	Dow, Indorama, Ineos, Lyondell	US
Polysorbates	BASF, Oxiteno	US, Mexico
Silky Wax 10	Dow Corning	US
Silmogen Carrier	Dow Corning	US
Sodium Lauryl Sulfate	Stepan	US
Sorbitan Esters	Oxiteno	Mexico
ST-Cyclomethicone 5	Elkem	France, China, US
ST-Dimethiconol	Elkem	France, China, US
ST-Elastomer 10	Elkem	France, China, US
ST-Wax		US
Stearic Acid (USP, EP, JP)	Spectrum Avantor, Oleon, Wilmar	US
Stearyl Alcohol	Sasol, P&G, Import	US, US, Thailand
Triethanolamine	Dow, Indorama	US
Volatile Silicone Q7-9180	Elkem	France, China, US
Xanthan Gum	ADM, JBL, FuFeng	US, EU, China

Fillers, Binders, Disintegrants, Coatings

Product	Manufacturer	Origin
Calcium Carbonate	Specialty Minerals	US
Calcium Carbonate DC	SPI Pharma	US
Calcium Sulfate	US Gypsum, CB Minerals	US
Carboxymethylcellulose (CMC)	Ashland, CP Kelco	Belgium, US
Carrageenan	Gelymar	Belgium
Cetyl Alcohol	Sasol, Cremer, Import	US, US, Thailand
Compressible Sugar (Di-PAC®)	Domino	US
Dextrose	Ingredion, ADM	US
Dicalcium Phosphate - Di-Tab® and Powder	Innophos	US
Dicalcium Phosphate Anhydrous - A-Tab® and Powder	Innophos	US
Glycerine	P&G, ADM, Acidchem	US, Germany, Indonesia
Gum Acacia	Colloides Naturels	Africa
Lactose - USP/NF, EP, JP	Kerry, Foremost	US
Hydroxyethylcellulose (HEC)	Ashland	Belgium
Hydroxypropylcellulose (HPC)	Ashland	US
Hypromellose (HPMC)	Dow	US
Mannitol	SPI Pharma	US
Methylcellulose (MC)	Dow	US
Polyethylene Glycol (PEG)	Dow, BASF	US
Povidone (PVP)	Nanhang	China
Propylene Glycol	Lyondell, Dow	US
Sodium Starch Glycolate	Yung Zip	Taiwan
Sorbitol	Ingredion, ADM	US
Stearyl Alcohol	Sasol, Cremer, Import	US, US, Thailand
Talc	MPSI, Avantor	US, France
Triacetin	Jiangsu Ruijia, Lanxess, Ester Chem	China, UK
Tributyl Citrate	JBL, Vertellus	Germany, US
Tricalcium Phosphate - Tri-Tab® and Powder	Avantor (NF), Biospectra, Innophos	US
Triethyl Citrate	Galactic, Purac, Ferro	Germany, US

Flavors, Sweeteners

Product	Manufacturer	Origin
Aspartame	Contract Manufactured	India
Compressible Sugar (Di-PAC®)	Domino	US
Corn Syrup	ADM	US
Dextrose	ADM, Ingredion	US
Ethyl Vanillin	Novacyl, Solvay, Borregaard, Phoenix, Camlin	US, China, India
Fructose	ADM, Tate & Lyle	US
Maltitol	ADM, Ingredion	US
Mannitol	SPI Pharma	US
Menthol	Penta Int'l, Jeen, ShengYuan	India, China
Methyl Salicylate	Novacyl, ShengYuan	France, China
Sorbitol (Crystalline)	ADM, Ingredion	US
Sorbitol (Liquid)	ADM, Ingredion	US
Sucrose	Domino	US
Vanillin	Novacyl, Solvay, Camlin	US, India
Xylitol	Import	China

Lubricants, Humectants

Product	Manufacturer	Origin
CAROWAX™ SENTRY™ Polyethylene Glycols	Dow	US
Calcium Stearate	Mallinckrodt, Valtris	US
Cetyl Alcohol	Sasol, P&G, Import	US
Dimethiconal Blend 20	Dow Corning	US
Dimethicone Emulsion 365 35%	Elkem	US
Dimethicone Fluid Q7-9120	Elkem	US
Dimethicone NF, 35%	Elkem	US
Glycerine USP	P&G, Import, ADM, Acidchem (IOI Oleo)	US, Indonesia
Magnesium Stearate	FACI, PMC, Valtris	US
MDX-4159	Elkem	US
Mineral Oil USP	Resolute, Sonneborn	US
Petrolatum	Resolute, Sonneborn	US
Polydimethylsiloxane 360 Medical Fluid	Elkem	US
Polyethylene and Propylene Glycol	Dow, BASF, Indorama, Ineos	US

Lubricants, Humectants Continued

Product	Manufacturer	Origin
Propylene Glycol USP	Dow, Indorama, Lyondell	US
Silky Wax 10	Dow Corning	US
Sodium Stearyl Fumarate (Lubripharm™ SSF)	SPI, Pharma	Taiwan
Sorbitol	ADM, Ingredion	US
Sorbitan Sorbitol Solution (Sorbitol Special®)	SPI, Pharma	US
ST-Dimethiconal 40		US
ST-Elastomer		US
ST-Wax 30		US
Stearic Acid	Spectrum Avantor	US
Stearyl Alcohol	Sasol, P&G, Import	US, US, Thailand
Tributyl Citrate	JBL, Vertellus	EU, US
Triethyl Citrate	JBL, Vertellus	EU, US
Zinc Stearate	PMC, Valtris	US

Preservatives

Product	Manufacturer	Origin
Benzoic Acid	Avantor, Emerald Kalama, Wuhan Youji, Hubei Greenhome, Columbus	US, China
Benzyl Alcohol	Emerald Kalama, Wuhan Youji	US
Boric Acid	US Borax, Etimine	France, Turkey
Butyl-, Methyl-, Propylparabens	Avantor, Ueno	Japan
Phenol	Blue Island, Avantor	US
Potassium Sorbate	Nantong, Ningbo, Reipu	China
Propylene Glycol	Dow, Indorama, Lyondell	US
Sodium Benzoate	Emerald Kalama, Wuhan Youji	US, China
Sorbic Acid	Mitsui, Nantong, Ningbo, Reipu	EU, China

Tilley API Sourcing

Sourcing Globally for the Pharmaceutical Industry

Through our Omni-Chem Partnership, Tilley has a strong global sourcing strategy and network in India, China and neighboring countries, working to develop relationships with bulk active and excipient suppliers to meet the GMP required by pharmaceutical companies in the US.

Tilley has partnered with Omni-Chem Sourcing Solutions to focus on sourcing API products for the important and growing pharmaceutical, animal health and nutritional industries in the US and Europe.

Omni-Chem is tasked with forming strategic partnerships with key API manufacturers who will utilize Tilley's market reach to grow their supplier presence in the US and Europe. APAC will also source specific product requests on Tilley's behalf from the most reputable Indian pharmaceutical companies.

The Omni-Chem team has over 25 years of experience sourcing in the global pharmaceutical industry and is supported by a team of industry professionals all working together to support Tilley's sourcing presence globally.

Active Pharma Ingredients

Product	Manufacturer	Origin
Acetaminophen	Sri Krishna Pharma	India
Acyclovir	Zhejiang Charioteer	China
Aluminum Hydroxide (Barcroft™)	SPI Pharma	US
Aspirin	Sri Krishna Pharma	India
Benzocaine	Dishman	India
Benzocaine - Micronized	Napp, Dishman	India
Brompheniramine Maleate	Keshava	India
Caffeine	Shandong Xinhua	China
Capsaicin	Alps	Japan
Carbamazepine	Amoli	India
Cetirizine HCL	IPCA	India

Active Pharma Ingredients Continued

Product	Manufacturer	Origin
Chlorpheniramine Maleate	Keshava, Kongo	India, Japan
Dexbrompheniramine Maleate	Keshava	India
Dextromethorphan	Shasun, Synthokem	India
Diclofenac Potassium	Yung Zip, Amoli	Taiwan, India
Diclofenac Sodium	Yung Zip, Amoli	Taiwan, India
Diphenhydramine HCL	Kongo, Wanbury	Japan, India
Docusate Sodium	Badrivishal	India
Doxylamine Succinate	RL Fine	India
Econazole Nitrate	Yung Zip	China
Ferrous Fumarate	Nitika	India
Fluconazole	SMS	India
Guaifenesin	Synthokem	India
Ibuprofen	Shandong Xinhua	China
Ketaconazole	Sharon	India
Lidocaine	Swati Spentose	India
Lidocaine HCL	Swati Spentose	India
Magnesium Hydroxide (Barcroft™)	SPI Pharma	US
Metformin HCL	Wanbury	India
Methocarbamol	Synthokem	India
Miconazole Nitrate	Yung Zip	Taiwan
Oxcarbazepine	Amoli	India
Oxymetazoline HCL	CTX	India
Pheniramine Maleate	Keshava, Kongo	India, Japan
Phenylephrine	Malladi	India
Pyriminamine Maleate	Keshava	India
Ranitidine HCL (Form I and II)	SMS	India
Salicylamide	Alta	India
Salicylic Acid - Micronized	Napp	US
Senosides	Alps	Japan
Simethicone 30%, 100%	Elkem	France, China, US
Sodium Salicylate	Huayin Jinqianchen (JQC)	China
Venlafaxine HCL	Amoli	India



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