



Macco

Company Profile

BRINGING
MINERALS
TO LIFE...





Lallemand Inc.

Lallemand Inc. is a privately-held Canadian company, founded at the end of the 19th century that specializes in the development, production, and marketing of **yeasts** and **bacteria**. The company is organized into 11 technically-driven business units focusing on various applications of yeast and bacteria in baking, fermented beverages, human and animal nutrition, fuel ethanol and for agricultural and pharmaceutical uses. Lallemand is present through plants, distribution centers or representation offices on all 5 continents and 45 countries.

Macco Organiques, s.r.o., Czech Republic

A leading producer and supplier of **inorganic mineral salts** for IV, dialysis solutions, pharmaceuticals, biotechnology, parenteral nutrition, infant formulas, nutritional supplements, veterinarian preparations, bottled and mineralized drinking water and for personal care.

Macco Organiques Inc., Canada

A leading producer of **dust - free acetates, propionates** and **benzoates** salts (calcium, potassium and sodium) serving the food, industrial and pharmaceutical industry.

Isaltis SAS, France

A leading producer and supplier of **organic mineral salts** for nutritional supplements, pharmaceuticals, cosmetics and special industrial applications. In 2018, Isaltis was acquired by Macco Organiques.

Macco - production of mineral salts

Since being established in 1976, Macco has experienced steady growth and today is a company that enjoys state of the art production facilities. We predominantly produce Calcium Chloride Dihydrate, Magnesium Chloride Hexahydrate, Magnesium Sulphate Heptahydrate, Magnesium Sulphate x-hydrate, Zinc Sulphate x-hydrate, Ammonium Sulphate, Sodium Sulphate Anhydrous, Potassium Chloride and Potassium Nitrate.

We take great care in maintaining our high levels of quality, this is reflected in the certification and registrations awarded to Macco Organiques, s.r.o. and the documented standards that we adhere to.



Quality Standards:

**EP, BP, USP, JP, ChP, FCC,
E-numbers, GB, ACS**

To attain our high quality levels and maintain the trust given to us by our customers, suppliers and regulators, we have our own on-site laboratories that include research and development facilities to test and continuously improve all aspects of our production.

With our own technical sales and support teams, every product development project or order is in our own hands from the initial contact through to final delivery.

Certifications and Registrations:

**GMP Q7
FSSC 22000
ISO 9001
CoS/CEP
DMF
ASMF
Halal
Kosher**

Macco offering physically modified mineral salts and customised packaging

We are aware that the requirements of our customers for grain-size, free-flowing properties and homogeneity of their raw material may be very specific.

Macco provides solutions for all of their specific needs and also offers the following production activities not simply for products produced by Macco, but also for mineral salts from our long standing reliable suppliers:

blending of mineral salts

grinding / crushing

milling

repacking

(upon request from our customer)

At Macco, there is a high stress on the prevention of any contamination occurring during all production stages. We believe that if it can be manufactured, it can be packed. Our standard pack sizes are:

low volume sacks and jars

from 50 grams

bags from 10 kg to 25 kg

carton boxes of 25 kg

plastic drums from 12 kg to 250 lb

fibre drums from 25 kg to 250 lb

big-bags from 400 kg to 1 000 kg



We pack all products in our GMP Q7 certified facility equipped with Clean Rooms to ISO 8 or in HACCP rooms for special products required by the food industry.

Products for the food market go through highly sensitive metal and/or X-Ray detection systems as a part of our metal particle contamination management.

To finally deliver customer satisfaction, our logistics team have no borders.

From small volume customers to high volume bulk users, every customer is treated with the same professional and personal approach and with the utmost respect.

Macco offering mineral salts from qualified producers

Using our experience in selling mineral salts from our own production and knowledge of both the legislative and market requirements for quality and service of such products, Macco also offers high end quality mineral salts from other third party reliable and qualified producers.

We place immense importance on the certification of our products and our manufacturing processes. Through constant internal and external auditing and stringent controls, we not only work within the standards but push the boundaries of quality.



Calcium Chloride Dihydrate	$\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$	EP, BP, USP, JP, FCC, ACS, GB, ChP
Calcium Chloride liquid	33 - 36% CaCl_2	USP, Special Purity
Calcium Hydroxide	$\text{Ca}(\text{OH})_2$	EP, BP, USP, FCC
Calcium Sulphate Dihydrate	$\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$	EP, BP, USP, FCC
Calcium Acetate	$(\text{CH}_3\text{COO})_2\text{Ca}$	EP, BP, USP, FCC
Calcium Propionate	$(\text{C}_2\text{H}_5\text{COO})_2\text{Ca}$	FCC
Calcium Carbonate	CaCO_3	EP, BP, USP, FCC
Magnesium Chloride Hexahydrate	$\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$	EP, BP, USP, JPC, FCC, ACS, GB, ChP
Magnesium Chloride 4,5Hy	$\text{MgCl}_2 \cdot 4,5\text{H}_2\text{O}$	EP
Magnesium Sulphate Dried	$\text{MgSO}_4 \cdot x\text{H}_2\text{O}$	BP or USP, FCC, GB
Magnesium Sulphate Heptahydrate	$\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$	EP, BP, USP, FCC, GB, ChP
Magnesium Oxide Heavy, Light	MgO	EP, BP, USP, FCC
Potassium Chloride	KCl	EP, BP, USP, FCC, GB, ChP
Potassium Hydrogen Carbonate	KHCO_3	EP, BP, USP, FCC
Potassium Benzoate	$\text{C}_6\text{H}_5\text{COOK}$	FCC
Potassium Acetate	CH_3COOK	EP, BP, USP, FCC
Potassium Nitrate	KNO_3	EP, BP, USP
Potassium Sulphate	K_2SO_4	EP, BP, FCC
Zinc Sulphate Monohydrate	$\text{ZnSO}_4 \cdot \text{H}_2\text{O}$	EP, BP, USP, FCC, GB, ChP
Zinc Sulphate Heptahydrate	$\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$	EP, BP, USP, FCC, GB, ChP
Sodium Chloride	NaCl	EP, BP, USP, FCC
Sodium Sulphate Anhydrous	Na_2SO_4	EP, BP, USP, FCC, ChP
Sodium Carbonate	Na_2CO_3	EP, BP, USP, FCC
Sodium Hydrogen Carbonate	NaHCO_3	EP, BP, USP, FCC
Sodium Benzoate	$\text{C}_6\text{H}_5\text{COONa}$	FCC
Sodium Acetate Anhydrous	CH_3COONa	EP, BP, USP, FCC
Sodium Acetate Trihydrate	$\text{CH}_3\text{COONa} \cdot 3\text{H}_2\text{O}$	EP, BP, USP, FCC
Sodium Di-Acetate	$\text{CH}_3\text{COOH} \cdot \text{CH}_3\text{COONa} \cdot \text{H}_2\text{O}$	FCC
Sodium Propionate	$\text{C}_2\text{H}_5\text{COONa}$	FCC
Ammonium Sulphate	$(\text{NH}_4)_2\text{SO}_4$	USP, FCC, ACS

Applications:



Pharmaceuticals,
Biopharmaceuticals,
Veterinarian Preparations

Calcium Chloride Dihydrate
Calcium Chloride Liquid
Calcium Carbonate
Calcium Hydroxide
Calcium Sulphate Dihydrate
Calcium Phosphate
Magnesium Chloride Hexahydrate
Magnesium Choride 4,5-Hydrate
Magnesium Sulphate Heptahydrate
Magnesium Sulphate Dried
Magnesium Oxide
Magnesium Phosphate
Potassium Chloride
Potassium Hydrogen Carbonate
Potassium Phosphate
Sodium Chloride
Sodium Hydrogen Carbonate
Sodium Sulphate Anhydrous
Sodium Acetate Trihydrate
Sodium Phosphate
Zinc Sulphate Heptahydrate
Zinc Sulphate Monohydrate
Ammonium Chloride
Ammonium Sulphate
Urea



Mineralized Bottled Water,
Sport Drinks
and Beverage

Calcium Chloride Dihydrate
Magnesium Sulphate Heptahydrate
Magnesium Sulphate Dried
Magnesium Chloride Hexahydrate
Sodium Chloride
Sodium Carbonate
Sodium Hydrogen Carbonate
Potassium Chloride
Potassium Carbonate
Potassium Hydrogen Carbonate



Infant Formulas,
Baby Food,
Nutraceuticals

Calcium Chloride Dihydrate
Calcium Hydroxide
Calcium Carbonate
Calcium Gluconate
Calcium Citrates
Magnesium Chloride Hexahydrate
Magnesium Citrates
Magnesium Sulphate Heptahydrate
Magnesium Sulphate Dried
Magnesium Oxide
Sodium Chloride
Sodium Carbonate
Sodium Bicarbonate
Sodium Citrates
Sodium Hydroxide
Potassium Hydroxide
Potassium Chloride
Potassium Citrates
Potassium Bicarbonate
Zinc Sulphate Heptahydrate
Zinc Sulphate Monohydrate
Zinc Gluconate
Cupric Sulphate Pentahydrate
Ferrous Sulphate Heptahydrate
Manganese Sulphate Monohydrate



Infusion
and Dialysis Solutions

Calcium Chloride Dihydrate
Magnesium Chloride Hexahydrate
Magnesium Sulphate heptahydrate
Potassium Chloride
Sodium Chloride
Sodium Acetate Trihydrate
Sodium Bicarbonate
Citric Acid



Health
and Personal Care

Calcium Chloride Dihydrate
Magnesium Chloride Hexahydrate
Potassium Chloride
Potassium Nitrate
Strontium Chloride
Magnesium Sulphate Heptahydrate
Zinc Sulphate Heptahydrate
Zinc Sulphate Monohydrate
Strontium Acetate



Seawater Salt

Calcium Chloride Dihydrate
Magnesium Chloride Hexahydrate
Magnesium Sulphate Dried
Magnesium Sulphate Heptahydrate
Sodium Chloride
Sodium Bicarbonate
Sodium Sulphate Anhydrous
Potassium Chloride
Strontium Chloride Hexahydrate

Macco Organiques Inc. Canada



Formed in 1986, Macco Organiques Inc. acquired the assets of a long-standing chemical manufacturing company in Valleyfield (Quebec) producing propionates, benzoates and acetates. Since this time Macco has experienced steady growth and an impressive increase in capacity focusing predominantly on the Food and Pharmaceutical Industries.

In 1988, Macco Organiques Inc. developed a revolutionary technology to dry and process all ingredients into a dust-free powder form that remains free flowing without caking or clumping for extended lengths of time.

Macco has received and maintained worldwide recognition for producing high quality dust free products with their unique technology and has been awarded ISO 9001 certification and adheres strictly to FSSC 22000 standards. The facility is FDA audited according to GMP Q7 guidelines and has API manufacturing license from Health Canada.

Macco Organiques Inc. offers an extensive portfolio of dust-free ingredients such as **Sodium Acetate Anhydrous, Sodium Acetate Trihydrate, Calcium Acetate, Potassium Acetate, Calcium Propionate, Sodium Propionate, Potassium Benzoate** and **Sodium Benzoates** from their Canada plant.



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Isaltis SAS, France

Isaltis is a key producer of high purity **organic mineral salts**.

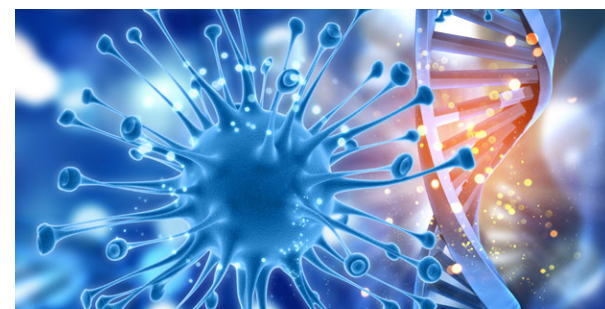
Located in France where we operate 2 sites; "GIVAUDAN - LAVIROTTE" in Lyon and "BERNARDY" in Thénieux.

We have more than 50 years' experience in mineral salts and their chemistry.

We offer the following products: **Citrates, Glucoheptonates, Gluconates, Glycerophosphates, Lactates, Nitrates** and **Undecylenates**.

The served markets range from pharmaceutical, nutritional, cosmetic and also industrial.

Our mineral salts are based particularly on alkali and earth alkaline metals such as: **Barium, Calcium, Magnesium, Potassium, Sodium, Strontium**, and also other metals such as **Aluminum, Copper, Iron** and **Zinc**.



The salts are essential for all body functions (Hormone regulation, stamina, joint & bone health, tissue repair, energy production, acid-base balance, nerve function). They are also used in many industrial applications like pyrotechnics or catalysis for instance.

Our efficient Sales and R&D teams allow quick and focused answers to customer's request for documentation, samples and quotations. Our multipurpose plants manufacture under GMP Q7 conditions, commercial quantities ranging from kilograms to hundreds of tons per year.

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