


**COFCO International globally**

**\$50<sub>bn</sub>**  
Revenue

**12,000**  
Employees

**36**  
Countries

**122<sub>mn</sub>**  
Tonnes sales volume

**32<sub>mn</sub>**  
Tonnes port capacity

**2.3<sub>mn</sub>**  
Tonnes inland storage capacity

**29<sub>mn</sub>**  
Tonnes processing capacity

Data as of 31st December 2023

# Castor Oil

COFCO International has been in the Castor Oil Business since 1963, and it is a part of the strategic long-term business of the company.

The company offers a comprehensive range of castor oil products, catering to industries that rely on this unique, versatile oil for its exceptional chemical properties.

With decades of experience in the sector, COFCO International bridges the gap between smallholder farmers and global industrial users, ensuring a stable and sustainable supply chain.

As a member of the Sustainable Castor Association, the company is committed to promoting responsible production practices that support both the environment and local communities. Collaborating closely with

the European Chemicals Agency (ECHA), COFCO International is REACH registered for all the castor oil derivatives.

With growing global demand and expanding production in emerging regions like Brazil and Mexico, COFCO International remains at the forefront of innovation and sustainability in the castor oil industry.

COFCO International manages bulk storage facilities for castor oil in Rotterdam (Netherlands) and Marseille (France) and holds stock of castor oil derivatives (hydrogenated castor oil, 12-hydroxy stearic acid, ricinoleic acid, dehydrated castor oil fatty acids, methyl 12-hydroxystearate and sebacic acid) in several European Countries, UK and the US for quick market delivery to our worldwide clients.



# We offer the following Castor products:

## Castor Oil

Castor oil, extracted from castor seeds, is a pale-yellow, mild-smelling vegetable oil rich in ricinoleic acid, a unique hydroxylated fatty acid. It's used in industrial resins, plastics, lubricants, and bio-based polymers, as well as in cosmetics and pharmaceuticals, due to its excellent mechanical properties and high temperature resistance. Castor oil is offered in different qualities and formats.

## Hydrogenated Castor oil (HCO)

Hydrogenated Castor Oil (HCO) is a versatile compound made by hydrogenating refined castor oil. This process creates a solid, wax-like substance with a melting point of 61-69°C. Available in various forms, HCO is widely used in paints, plastics, inks, sealants, adhesives, lubricants, greases, resins, and rubber products due to its high oxidative stability.

## 12-Hydroxy stearic acid (12-HSA)

12-Hydroxy stearic acid (12-HSA) is a saturated fatty acid derived from the hydrolysis of hydrogenated castor oil. It's a waxy, odourless compound available in flakes, pellets, or powder. With excellent oxidative stability, it's mainly used in lubricants, greases, resins, and synthetic waxes.

## Ricinoleic Acid

Ricinoleic acid, derived from castor oil, is an unsaturated fatty acid that makes up about 90% of the oil's fatty acids. It's primarily used as a chemical intermediate to produce various oleochemicals and can be found in applications like pigments, printing inks, textile finishes, and dry-cleaning soaps.

## Sebacic Acid

Sebacic acid (decanedioic acid) is a dicarboxylic acid derived from castor oil through dry distillation with caustic soda at high temperatures. It is typically available in powder or granular form. Sebacic acid is used in a variety of industrial applications, such as plasticizers, lubricants, hydraulic fluids, cosmetics, and candles. It also acts as a stabilizer in alkyd resins, polyesters, and polyurethanes, and enhances the antirust properties of lubricants.

## Dehydrated Castor Oil Fatty Acid (DCOFA)

Dehydrated Castor Oil Fatty Acid (DCOFA) derives from castor oil through a dehydration process, converting ricinoleic acid into conjugated linoleic acid. It is used in products like pH regulators, water treatments, coatings, lubricants, inks, and textile treatments due to its enhanced chemical properties.

## Disodium sebacate (DSS)

Disodium sebacate (DSS), a castor oil derivative, is used in cosmetics, detergents, and as a corrosion inhibitor in lubricants. It replaces sodium nitrites in aluminum greases and is also found in heat transfer and hydraulic fluids, offering diverse industrial applications.

## Methyl 12-hydroxystear

Methyl 12-hydroxystearate is a methyl esterified fatty acid, created by direct esterification of 12-Hydroxy stearic acid with methanol. Methyl 12-hydroxy stearate can be sold both in solid and liquid form.



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