


Industrial Chemicals

# Caustic Soda Microprills



**Nouryon**



Based in the Netherlands, Nouryon Industrial Chemicals produces energy, salt, chlor-alkali products and derivatives such as monochloroacetic acid (MCA) and chloromethanes for the global market.

Over the years, we have developed an outstanding reputation for our application know-how, world class research and manufacturing processes and our highly integrated business model. This enables us to call upon our energy partners to make competitive use of state-of-the-art, clean cogeneration plants to assist in the production of high purity evaporated salt, chlorine and caustic soda.

The businesses of Industrial Chemicals form a strong and integrated product chain of energy, salt, chlor-alkali, and chlorine derivatives. It all starts with energy, which counts for about 80% of the raw material used. By means of cogeneration gas is converted into steam and electricity. The steam and the brine are used to produce salt. Salt and electricity eventually result via electrolysis in chlorine, caustic, and hydrogen.

The Chlor-Alkali business of Industrial Chemicals has a leading position in northwestern Europe for chlorine and caustic soda for industrial applications. It operates the biggest single merchant chlorine unit in Europe (Rotterdam), mainly supplying its customers by pipeline. Other production locations are Delfzijl, Bitterfeld, Ibbenbüren and Frankfurt.

Caustic soda is used in a large number of processes in the chemical, pulp and paper, textile, food and mineral industries.

In line with Nouryon's sustainability agenda, Chlor-Alkali has set targets for reducing its environmental footprint by increasing the share of renewable energy and reducing energy use. The conversion of our Frankfurt plant in 2015 to the newest membrane technology with substantially higher energy efficiency fits well in this strategy.

Produced at our membrane electrolysis plant in Frankfurt, our caustic soda microprills are a Western Europe quality product of predictable and consistent high quality.

## Caustic Soda Microprills

Caustic Soda Microprills are produced at our membrane electrolysis plant in Frankfurt and are of the best quality available in the market.

Our Caustic Soda Microprills are solid small fused white pearls, color- and odorless and very hygroscopic. The size of the Microprills (typical diameter is less than 1mm) allows a rapid dissolution in water. They are as well soluble in methanol and ethanol. Caustic Soda Microprills and caustic soda solutions are corrosive to many materials and have to be handled with great care.



A microscopic view of numerous small, spherical, white particles (microprills) of Caustic Soda. The particles are densely packed and appear uniform in size. A white curved line with a purple dot is overlaid on the image.

All our Caustic Soda Microprills have the same size, important for manufacturing of formulations.

## Advantages

Big advantage of our Caustic Soda Microprills is that all the microprills are of the same size. There is no wide spread of diameter, which is important when it comes to the manufacturing of (cleaning) formulations where proper mixing properties are required and consequently regular and equally shaped particles are demanded.

**Compared to conventional granules or flakes, our Caustic Soda Microprills offer significant advantages:**

- Excellent free flowing properties
- Low tendency to stick and agglomerate
- Distinguished for air lifting
- Highly resistant to abrasion
- Minimal dust formation
- Well suited for transportation in road tankers, containers and big bags
- Suitable for Silo storage installations
- Precise dosage
- Rapidly dissolving in water, methanol and ethanol

**Furthermore, our Caustic Soda Microprills meet the chemical purity specifications of:**

- EU food additive regulation
- EU feed additive regulation
- Food Chemicals Codex (FCC)
- EU cosmetics regulation
- European standard for drinking water treatment EN 896:2012, type 2; US pharmacopeia, European pharmacopeia



## Packaging

We provide a wide spectrum of individual packaging, therefore quite specific to the needs of you, our customers:

- PE bags of 25 kg
- PE drums of 227 kg
- Flexible big bags of 1000 kg
- Bulk by road tanker
- We deliver on new pallets only, which you, our customer, can use for your own products!

Other containers (e.g. ISO containers) may be filled on request.

### Reliable supply

In case of sudden demand, or to avoid losses in your production volume, we are able to support you with extra supply.





# Applications

Caustic Soda Microprills are used in many different applications, mainly as basic auxiliary in chemical industry, for the production of aluminum, pulp and paper, surfactants like soaps, detergents, and washing powder, and as catalyst for the production of biodiesel.

Other applications are as cleaning and disinfection agent, for degreasing and paint stripping, preparation of construction materials, manufacturing of cellulose and refining of rayon fibers, metal and wood cleaning, regeneration of ion-exchange

resins, production of food and beverages, for neutralization purposes, pH-adjustment and treatment of drinking water and industrial water, treatment of waste water, sewage and waste air cleaning.



## We are Nouryon

Your partner in essential chemistry  
for a sustainable future

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# Nouryon

We are a global specialty chemicals leader. Industries worldwide rely on our essential chemistry in the manufacture of everyday products such as paper, plastics, building materials, food, pharmaceuticals, and personal care items. Building on our nearly 400-year history, the dedication of our 10,000 employees, and our shared commitment to business growth, strong financial performance, safety, sustainability, and innovation, we have established a world-class business and built strong partnerships with our customers. We operate in over 80 countries around the world and our portfolio of industry-leading brands includes Eka, Dissolvine, Trigonox, and Berol.

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