



Ercros



Sabiñánigo Factory

# Key facts. Fiscal year 2023

**1989**  
Foundation

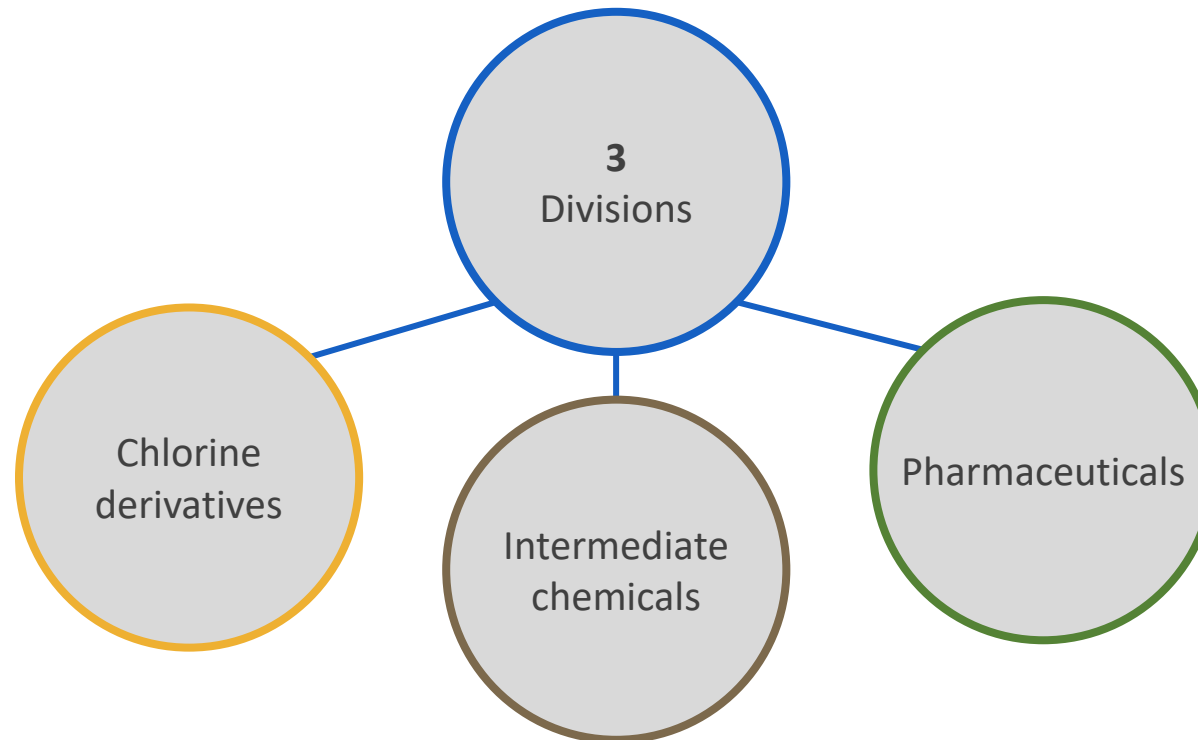
**1,334**  
Workforce

**10**  
Factories

**707 M€**  
Sales

**52%**  
Export  
(>90  
countries)

**48 M€**  
Adjusted  
ebitda



# Factories



Chlorine derivatives

Intermediate chemicals

Pharmaceuticals

# Key factory data. Fiscal year 2023

**1918**  
Year founded

**232**  
Workers

**41%**  
Export

**117**  
M€ sales

**Spain and  
the EU  
Markets**



# The Sabiñánigo industrial park



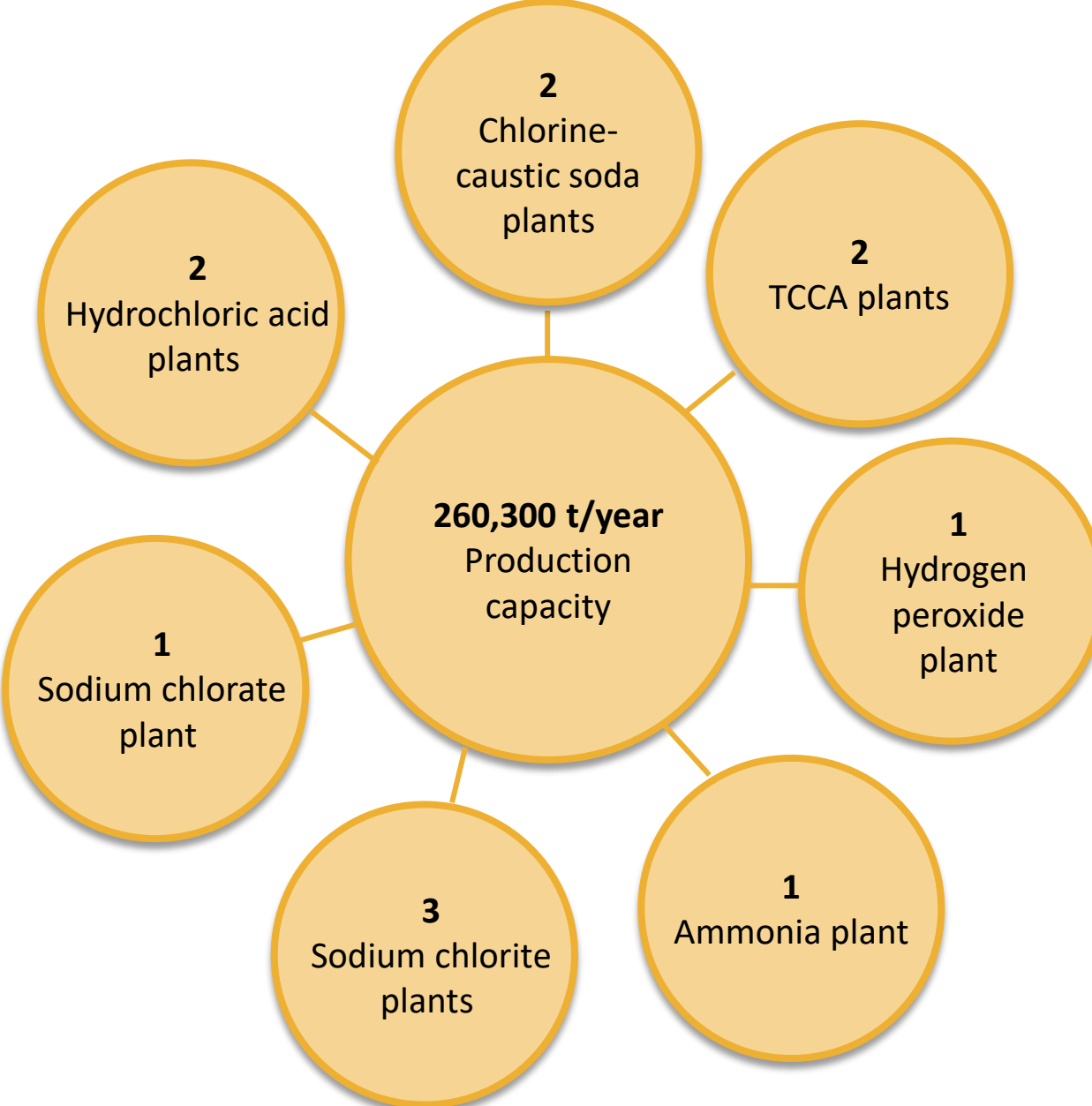
# Products, applications and market shares. Year 2023

| Products            | Applications               |
|---------------------|----------------------------|
| Hydrochloric acid   | Industry in general        |
| Hydrogen peroxide   | Manufacture of chlorate    |
| Ammonia             | Metallurgy                 |
| TCCA                | Pool water                 |
| Sodium chlorate     | Bleaching of paper pulp    |
| Sodium chlorite     | Water treatment            |
| Chlorine            | Manufacture of derivatives |
| Sodium hypochlorite | Water treatment            |
| Caustic potash      | Chemical industry          |
| Caustic soda        | Industry in general        |

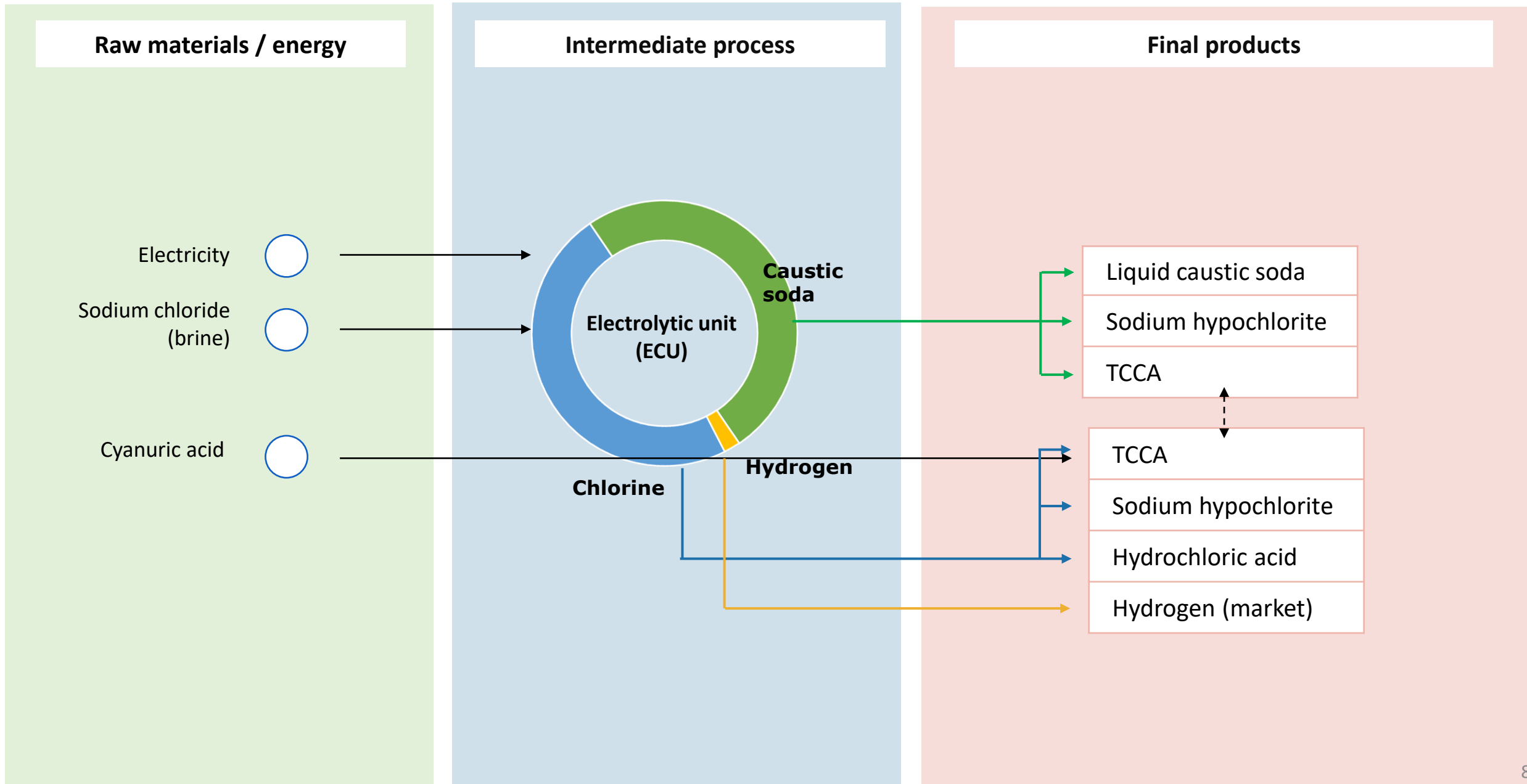
| Ranking by market share |       |       |
|-------------------------|-------|-------|
|                         | Spain | Spain |
| Hydrochloric acid       | 1st   | -     |
| TCCA                    | 1st   | 1st   |
| Sodium chlorate         | 1st   | 4th   |
| Sodium hypochlorite     | 1st   | 11th  |
| Caustic soda            | 1st   | 9th   |

The data provided comes from calculations made by Ercros.

# Production and facilities

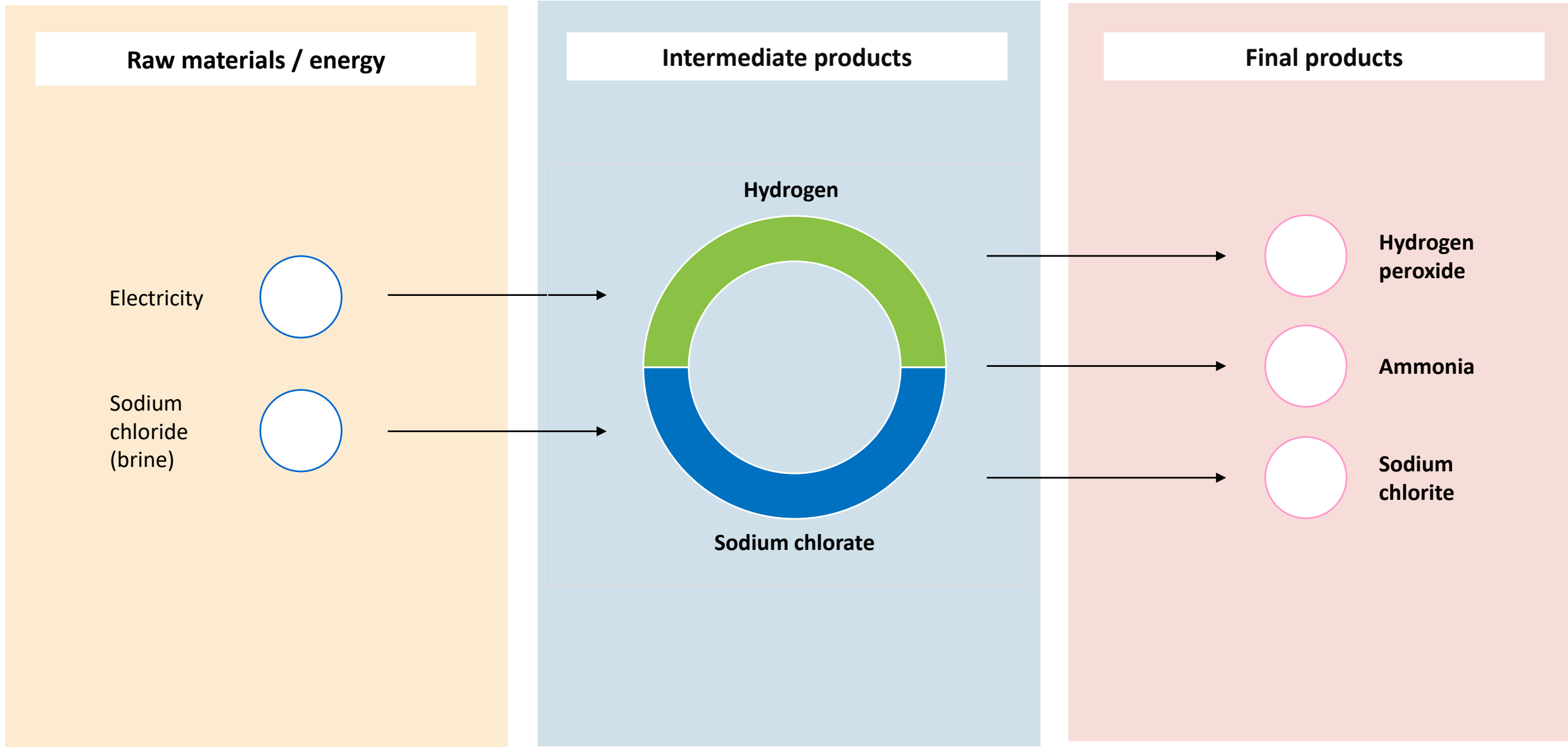


# Scheme of the production process of chlorine - caustic soda





# Scheme of the process of the sodium chlorate line

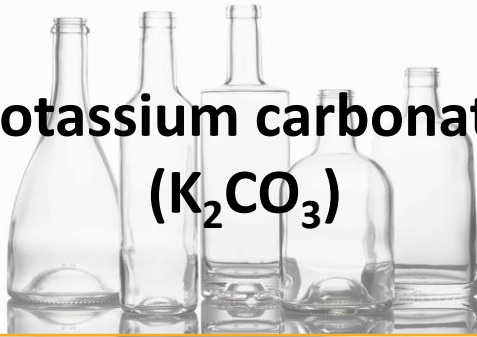


# Chlorine, caustic soda and caustic potash

|   |   |  |
|---|---|--|
|  <p><b>Chlorine</b><br/>(Cl<sub>2</sub>)</p> | <p><b>Applications</b></p> <ul style="list-style-type: none"><li>Water disinfection</li><li>Solvents</li><li>Pharmacy</li></ul>                       | <p><b>Markets</b></p> <ul style="list-style-type: none"><li>Self-consumption to manufacture TCCA, sodium hypochlorite and hydrochloric acid.</li></ul>         |
|  <p><b>Caustic soda</b><br/>(NaOH)</p>       | <p><b>Applications</b></p> <ul style="list-style-type: none"><li>Industry in general</li><li>Aluminium</li><li>Cellulose</li><li>Detergents</li></ul> | <p><b>Markets</b></p> <ul style="list-style-type: none"><li>55% is self-consumed.</li><li>Of the sales, 60% are destined to Spain and 40% to the EU.</li></ul> |
|  <p><b>Caustic potash</b><br/>(KOH)</p>     | <p><b>Applications</b></p> <ul style="list-style-type: none"><li>Pharmacy</li><li>Soaps</li><li>Alkaline batteries</li></ul>                          |  <p>AAA/10<br/><b>Alkaline</b><br/>BATTERIES</p>                           |

# Carbonate, hypochlorite and hydrochloric acid

## Potassium carbonate ( $K_2CO_3$ )

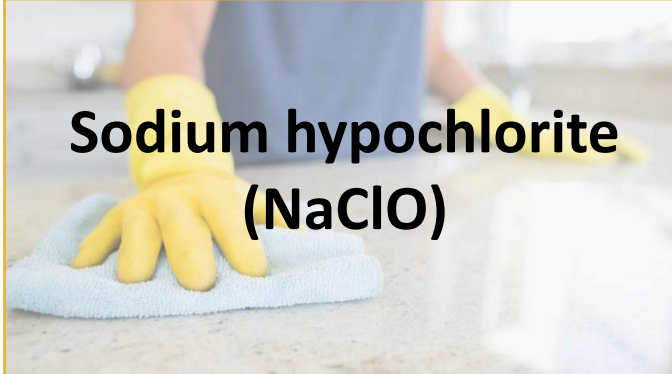


### Applications

- Pharmacy
- Glass production
- Liquid detergents



## Sodium hypochlorite ( $NaClO$ )



### Applications

- Water purification
- Home disinfection
- Textile bleaching



## Hydrochloric acid ( $HCl$ )


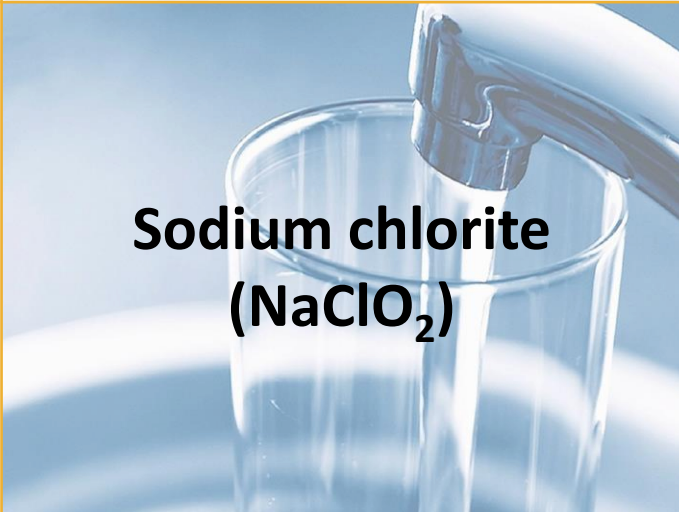


### Applications

- Pickling of metals
- Dyes and colorants
- PH regulator



# Sodium chlorate and chlorite

|   |   |  |
|---|---|--|
|  <p><b>Sodium chlorate</b><br/><b>(NaClO<sub>3</sub>)</b></p>  | <p><b>Applications</b></p> <ul style="list-style-type: none"><li>▪ Paper bleaching</li><li>▪ Fibre bleaching</li><li>▪ Water purification</li></ul>     | <p><b>Markets</b></p> <ul style="list-style-type: none"><li>▪ Ercros is the leading producer of sodium chlorate in Spain and its sales account for more than half of this market..</li></ul> |
|  <p><b>Sodium chlorite</b><br/><b>(NaClO<sub>2</sub>)</b></p> | <p><b>Applications</b></p> <ul style="list-style-type: none"><li>▪ Water purification</li><li>▪ Circuit refrigerant</li><li>▪ Fibre bleaching</li></ul> | <p><b>Markets</b></p> <ul style="list-style-type: none"><li>▪ Only Spanish producer.</li><li>▪ 26% of sales are destined to Spain, 57% to the EU and 17% to other countries.</li></ul>       |

# Ammonia and hydrogen peroxide

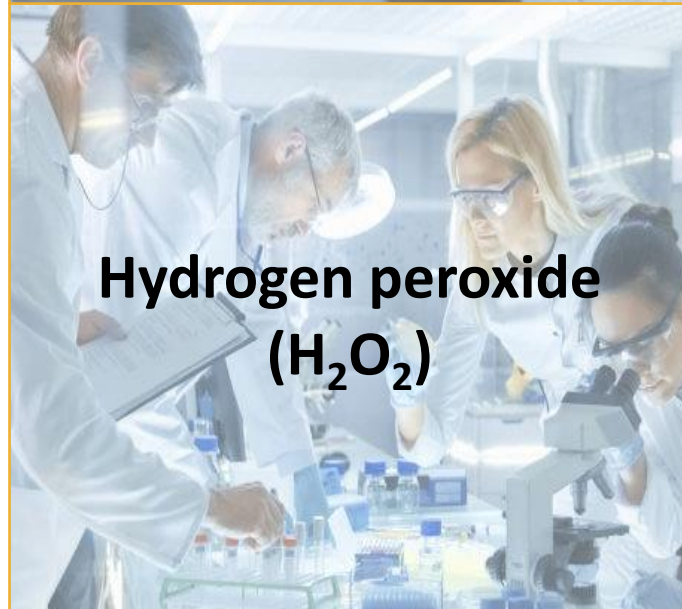


## Applications

- Metallurgy
- Cooling circuits
- Fertilizers
- Solvent agent
- Pharmacy

## Markets

- 100% is sold in Spain.



## Applications

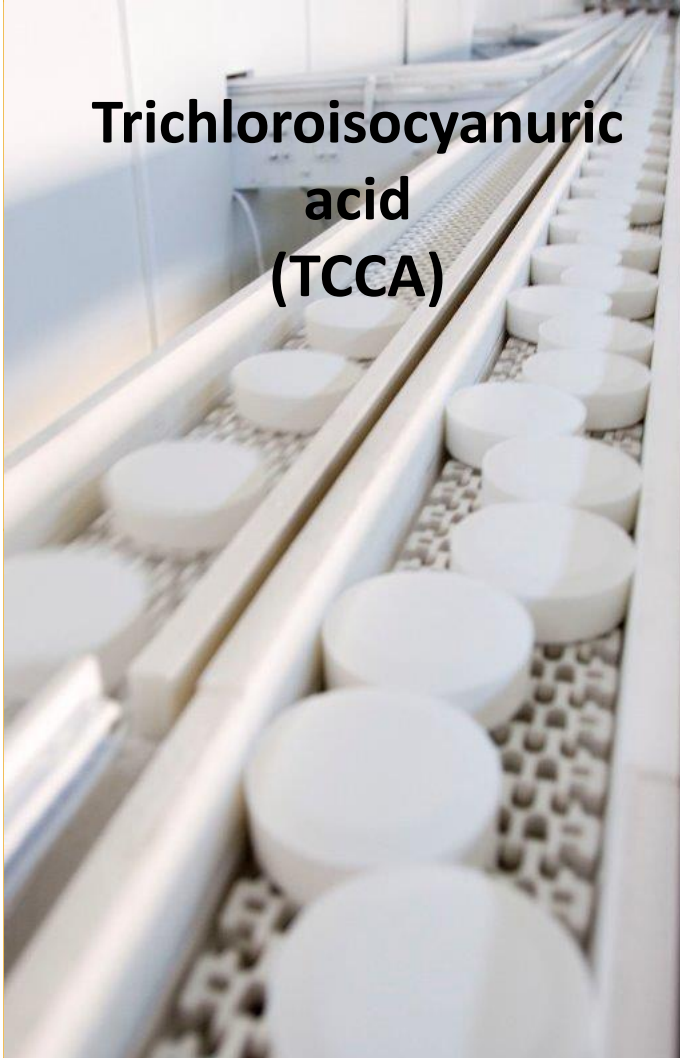
- Bleaching paper pulp and fibers.
- Extraction and purification of metals.
- Water treatment.
- Pharmacy, cosmetics and food.

## Markets

- 30% is self-consumed to manufacture sodium chlorate.
- Most of the sales are for customers in Spain.

# Chloroisocyanurates

## Trichloroisocyanuric acid (TCCA)



### Applications

- Disinfection of swimming pool water.
- Manufacture of detergents.



### Markets and brands

- 100% is exported, mainly, to the USA and France.
- Trademarks: Delsa and Azuli.



# The 3D Plan in Sabiñánigo



- The 3D Plan is the strategic plan launched by Ercros, which pursues its transformation into a sustainable company and is based on three dimensions: diversification, digitalisation and decarbonisation or the fight against climate change.
- Main actions:
  - New sodium chlorite production line.
  - New pilot plant for hydrogen generation.
  - Internet of things: monitoring key parameters of plant operation to improve energy performance and the useful life of the installation.
  - New NaCl (salt) crystallization plant from residual brine.
  - New header electrical transformer that will reduce CO2 emissions.
  - Installation of mixed burners in steam boilers that will reduce gas consumption.



- The Sabiñánigo factory has the main R+D center for basic chemicals activity. The department is made up of 12 people: six technical people (trained in chemical sciences and chemical engineering) and six people operating the pilot plant.
- It has pilot facilities for the study of various production processes.
- The main activities in R+D are:
  - Development of novel anodic activations.
  - Development of new products.
  - Continuous process improvement.
  - Development of basic engineering.
  - Development of analytical solutions.
  - Technical assistance to the industrial plants of the activity.





# ESG Accreditations

- Prevention management system according to **ISO 45001**.
- Quality management system according to **ISO 9001**.
- Energy management system according to **ISO 50001**.
- Environmental management system according to **ISO 14001**.
- Verification of greenhouse gas (GHG) emissions according to **ISO 14064**.
- Registration in the European Eco-Management and Eco-Audit Register, **EMAS**.
- Seal of Social Responsibility of Aragon, **RSA**.
- Verification of compliance with the Good Corporate Governance Index, **IBGC**.
- Healthy Organization Management System, **Sigos**.



# Programs & ratings

- **Responsible Care:** a programme of good practices in sustainability in the global chemical sector.
- **Global Compact:** a UN-sponsored programme containing 10 principles of action.
- **Carbon Disclosure Project (CDP):** an organization designed to assess the behavior of member companies in relation to the climate emergency.
- **EcoVadis:** international sustainability rating (score 85/100 in 2024).
- **RE4Industry:** EU 100% renewable energy project for electro-intensive industries.
- **GetHyGA:** initiative of the Government of Aragon to promote hydrogen as an energy source.



# Compliance with the sustainable development goals (SDGs)

In the development of its activity, Ercros contributes to the fulfillment of the 17 SDGs established in the UN 2030 Agenda, although it has a special impact on:

- **SDG 3:** Good health and well being.
- **SDG 6:** Clean water and sanitation.
- **SDG 7:** Affordable and clean energy.
- **SDG 8:** Decent work and economic growth.
- **SDG 9:** Industry, innovation and infrastructures.
- **SDG 12:** Responsible consumption and production.
- **SDG 13:** Climate action.



# Associations and participations



**Universidad  
Zaragoza**



**Thank you**

**For more information**

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