



Ercros



Sabiñánigo factory

Key data. Year 2022

1989
Foundation

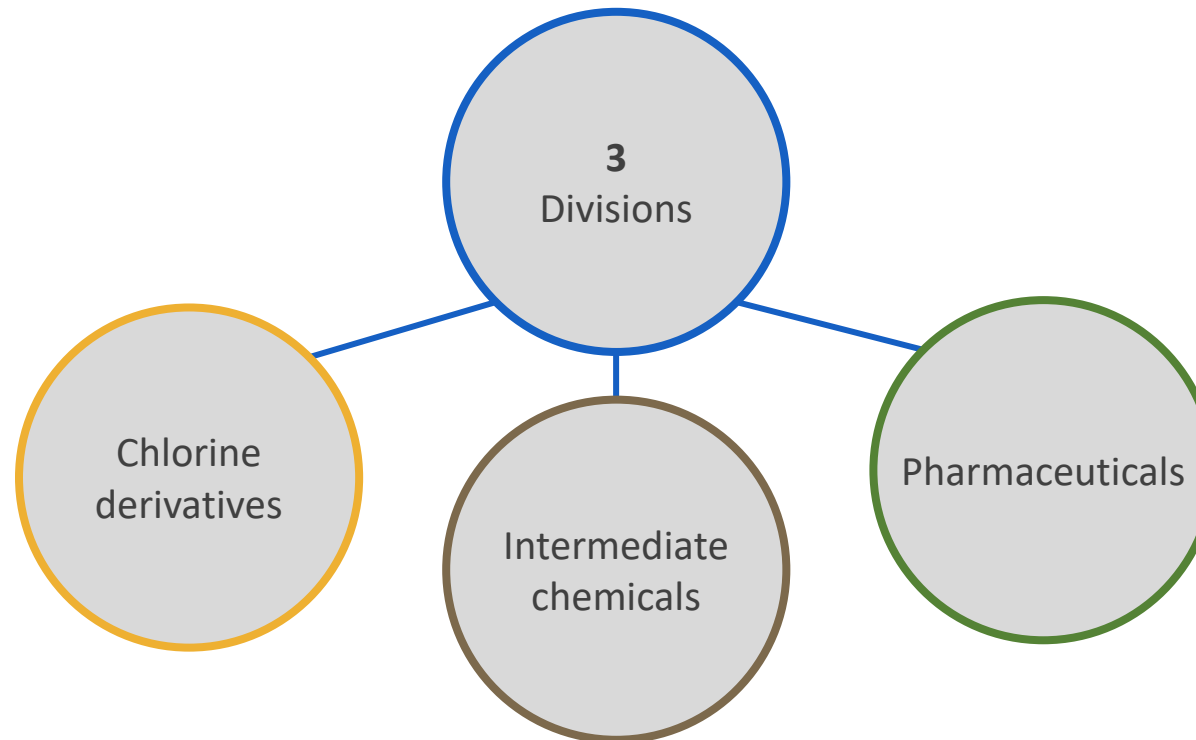
1,348
Workforce

10
Factories

998 M€
Sales

47 %
Export (>90
countries)

143 M€
Adjusted
ebitda



Factories



Chlorine derivatives

Intermediate chemicals

Pharmaceuticals

Key factory data. Year 2022

1918
Foundation

230
Workforce

60%
Export

164
M€
sales

**Spain and
the EU
Markets**



The Sabiñánigo industrial park



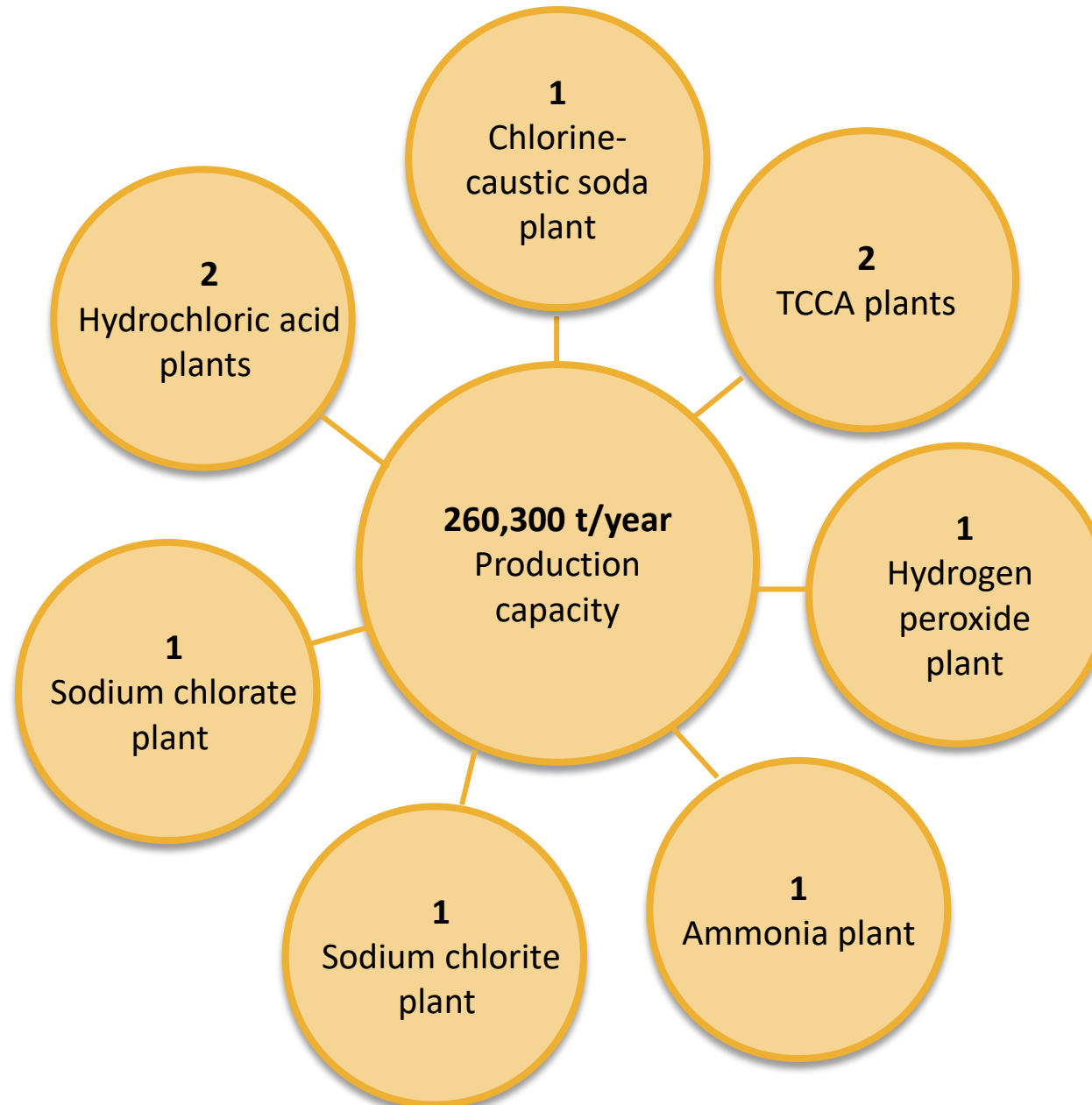
Products, applications and market shares. Year 2022

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

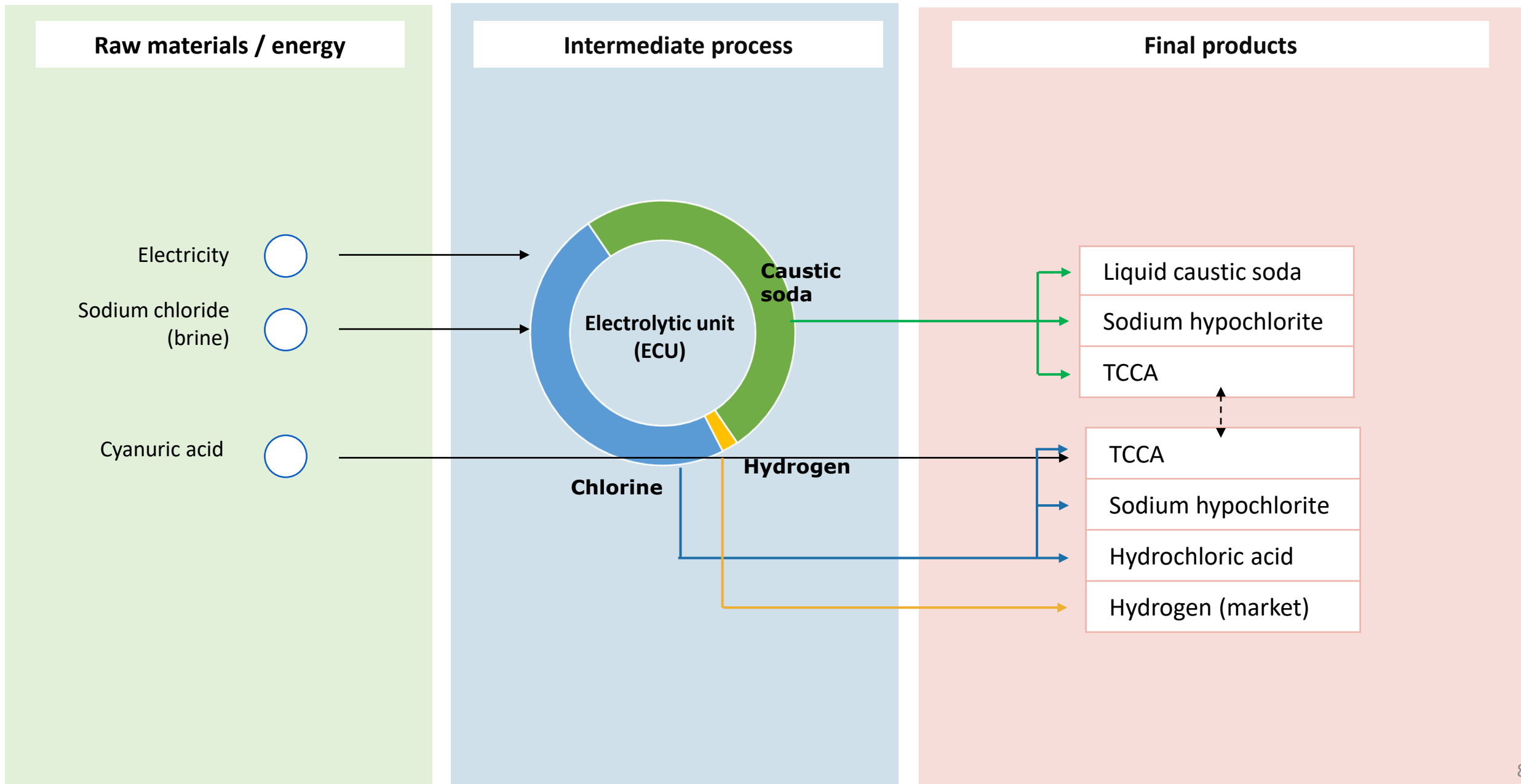
Ranking by market share		
	Spain	Spain
Hydrochloric acid	1st	-
TCCA	1st	1st
Sodium chlorate	1st	4th
Sodium hypochlorite	1st	11th
Caustic soda	1st	9th

The data provided comes from calculations made by Ercros.

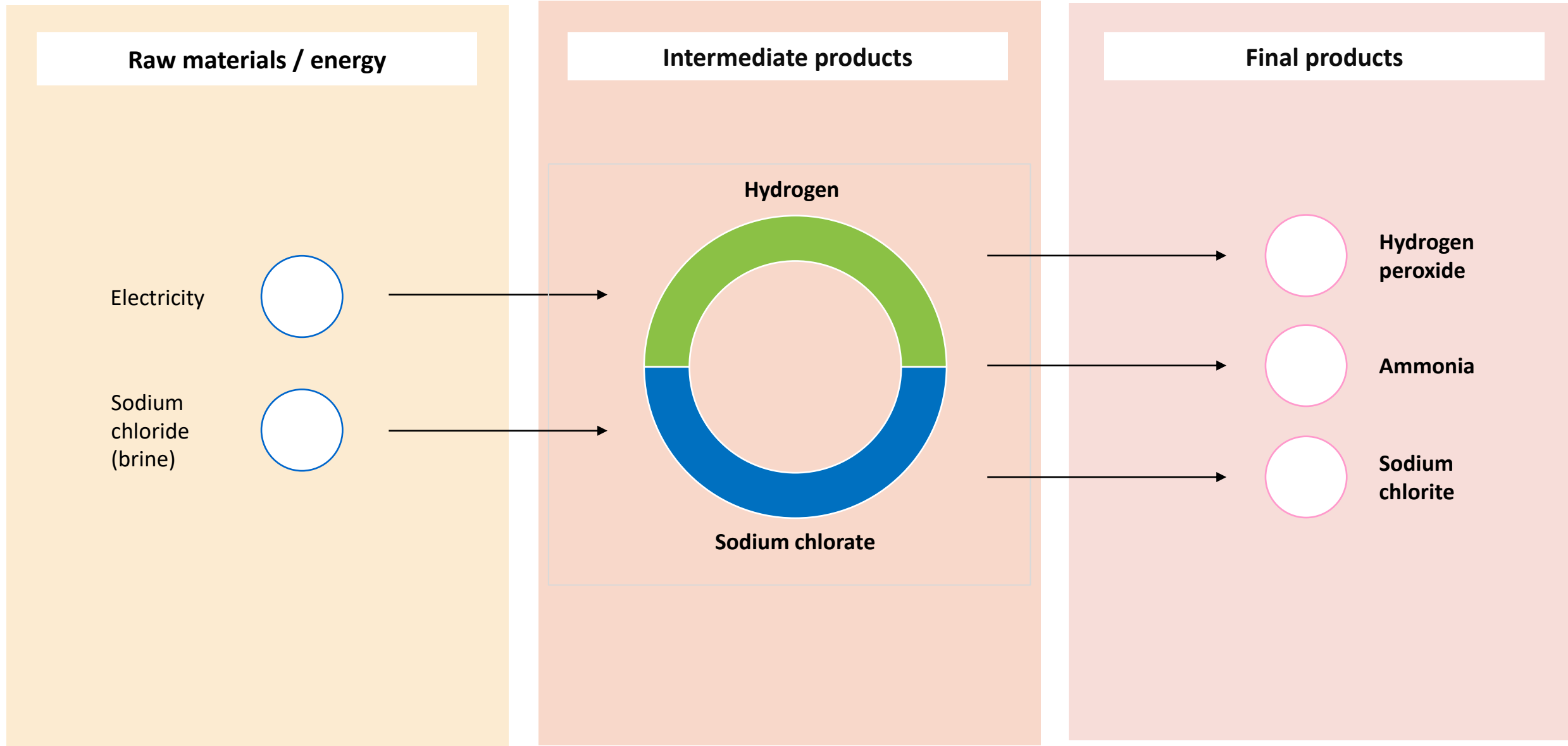
Production and facilities



Scheme of the production process of chlorine - caustic soda



Scheme of the process of the sodium chlorate line

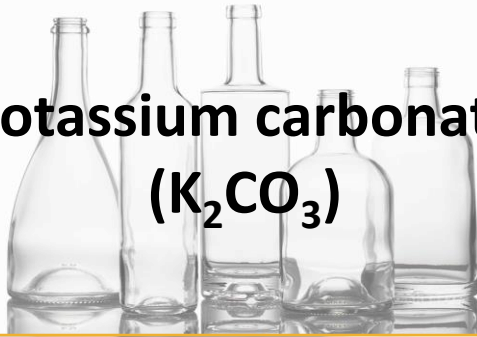


Chlorine, caustic soda and caustic potash

 <p>Chlorine (Cl₂)</p>	<p>Applications</p> <ul style="list-style-type: none">■ Water disinfection■ Solvents■ Pharmacy	<p>Markets</p> <ul style="list-style-type: none">■ Self-consumption to manufacture TCCA, sodium hypochlorite and hydrochloric acid.
 <p>Caustic soda (NaOH)</p>	<p>Applications</p> <ul style="list-style-type: none">■ Industry in general■ Aluminium■ Cellulose■ Detergents	<p>Markets</p> <ul style="list-style-type: none">■ 55% is self-consumed.■ Of the sales, 60% are destined to Spain and 40% to the EU.
 <p>Caustic potash (KOH)</p>	<p>Applications</p> <ul style="list-style-type: none">■ Pharmacy■ Soaps■ Alkaline batteries	

Carbonate, hypochlorite and hydrochloric acid

Potassium carbonate
(K₂CO₃)

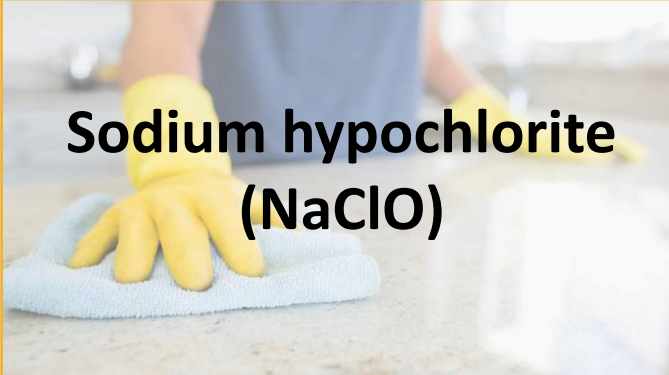


Applications

- Pharmacy
- Glass production
- Liquid detergents



Sodium hypochlorite
(NaClO)



Applications

- Water purification
- Home disinfection
- Textile bleaching



Hydrochloric acid
(HCl)


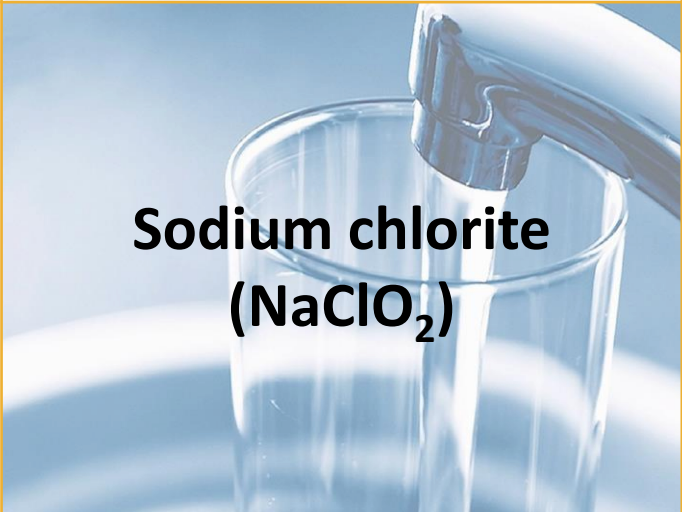


Applications

- Pickling of metals
- Dyes and colorants
- PH regulator



Sodium chlorate and chlorite

 <p>Sodium chlorate (NaClO₃)</p>	<p>Applications</p> <ul style="list-style-type: none">■ Paper bleaching■ Fibre bleaching■ Water purification	<p>Markets</p> <ul style="list-style-type: none">■ Ercros is the leading producer of sodium chlorate in Spain and its sales account for more than half of this market..
 <p>Sodium chlorite (NaClO₂)</p>	<p>Applications</p> <ul style="list-style-type: none">■ Water purification■ Circuit refrigerant■ Fibre bleaching	<p>Markets</p> <ul style="list-style-type: none">■ Only Spanish producer.■ 26% of sales are destined to Spain, 57% to the EU and 17% to other countries.

Ammonia and hydrogen peroxide

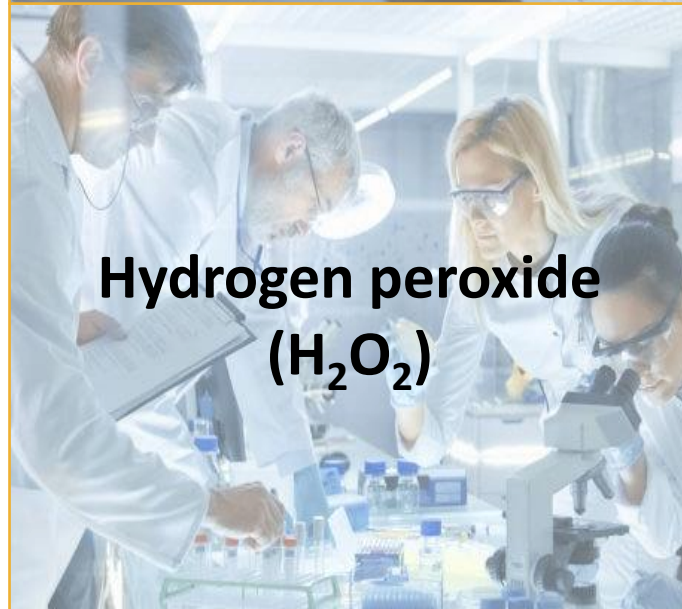


Applications

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

Markets

- 100% is sold in Spain.



Applications

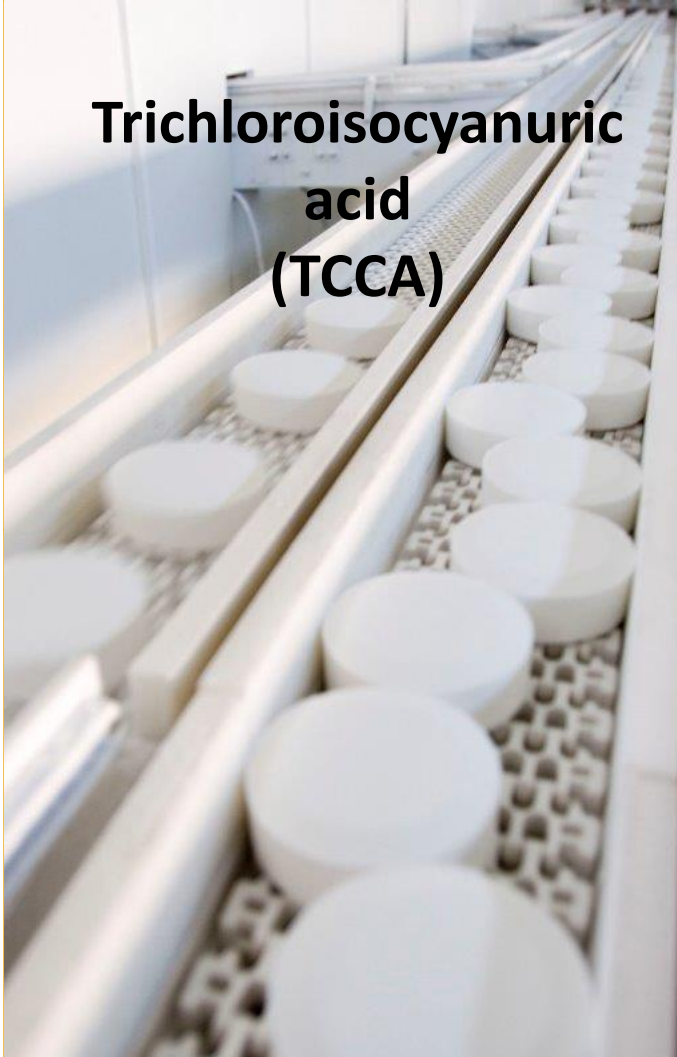
- Bleaching paper pulp and fibers.
- Extraction and purification of metals.
- Water treatment.
- Pharmacy, cosmetics and food.

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

- 50% is exported, mainly to Europe and the USA.
- 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 of key parameters of plant operation to improve energy performance and the useful life of the installation.
 - New residual brine concentration plant.
 - New head-end electrical transformer that will reduce CO₂ emissions.
 - Installation of mixed burners in steam boilers that will reduce gas consumption.

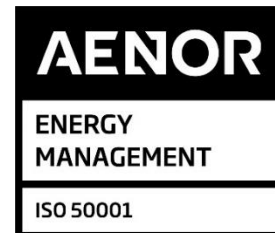


- The Sabiñánigo factory has the main R+D center for basic chemicals activity. The department is made up of 12 people: six technical people (trained in chemical sciences and chemical engineering) and six people operating the pilot plant.
- It has pilot facilities for the study of various production processes.
- 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**.



Programs and ratings

- **Responsible Care:** Program of good practices in sustainability of the global chemical sector.
- **Global Compact:** Program promoted by the UN that contains 10 principles of action.
- **Carbon Disclosure Project (CDP):** Organization aimed at assessing the behavior of affiliated companies regarding the climate emergency.
- **EcoVadis:** International sustainability rating (score 84/100 in 2022).
- **RE4Industry:** EU project of 100% renewable energies 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

Ercros, S.A.

Sabiñánigo Factory

Calle Serrablo, 102

22600 Sabiñánigo (Huesca)

Tel.: (+34) 974 498 000

E-mail: sabinanigo@ercros.es

www.ercros.es