

A photograph of a large industrial chemical plant, likely a chlorine production facility. The image shows several tall, white distillation columns with yellow ladders and platforms. A dense network of yellow and blue pipes and structural steel frames fills the foreground and middle ground. The sky is clear blue, and a body of water is visible in the far distance on the right.

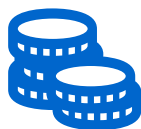
CHLORINE DERIVATIVES

KEY DATA 2024



Staff: 616 people

46% of the total workforce



Sales: EUR 386 M

60% of total sales



Factories: 6

Tarragona (Tarragona)
Vila-seca I (Tarragona)
Vila-seca II (Tarragona)
Flix (Tarragona)
Sabiñánigo (Huesca)
Monzón (Huesca)



Export: 43%

BUSINESS MODEL

- The main activity of the chlorine derivatives division is the production of chlorine, caustic soda, and their derivatives.
- Chlorine, caustic soda, and hydrogen are obtained simultaneously in the same production process, through electrolysis, from sodium chloride dissolved in water (brine) and electricity, in a ratio of 1 ton of chlorine to 1.12 tons of caustic soda, the equivalent of 28 kg of hydrogen.
- The chlorine produced by Ercros is mainly used in the domestic manufacture of chlorine derivatives and, in particular, in the manufacture of PVC.



BUSINESS MODEL

Strengths

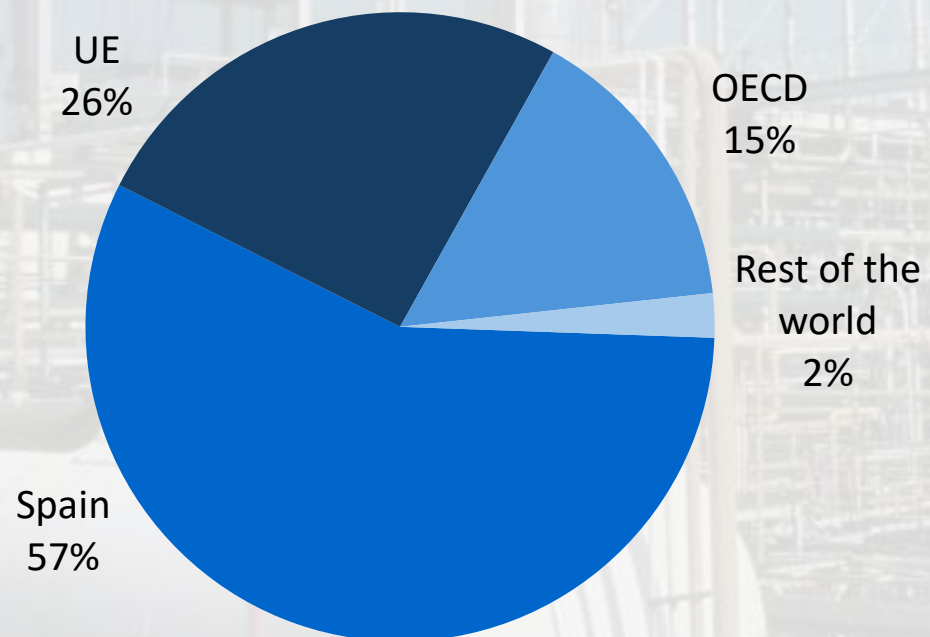
- Integrated production.
- Synergies and complementarity between the division's factories.
- Efficiency of its modern industrial park.

Challenges

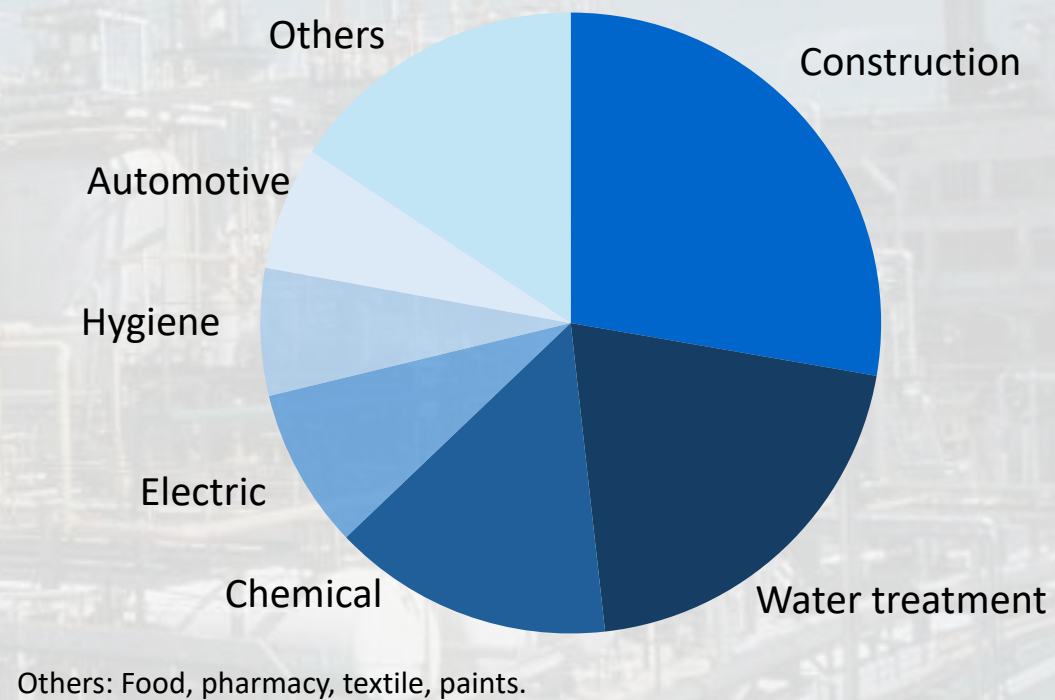
- Reduce the carbon footprint.
- Digitize the entire value chain.
- Expand production capacity for higher value-added products.
- Diversify the portfolio with new products.

MARKETS AND SECTORS

Where do we sell?



What sectors do we sell to?

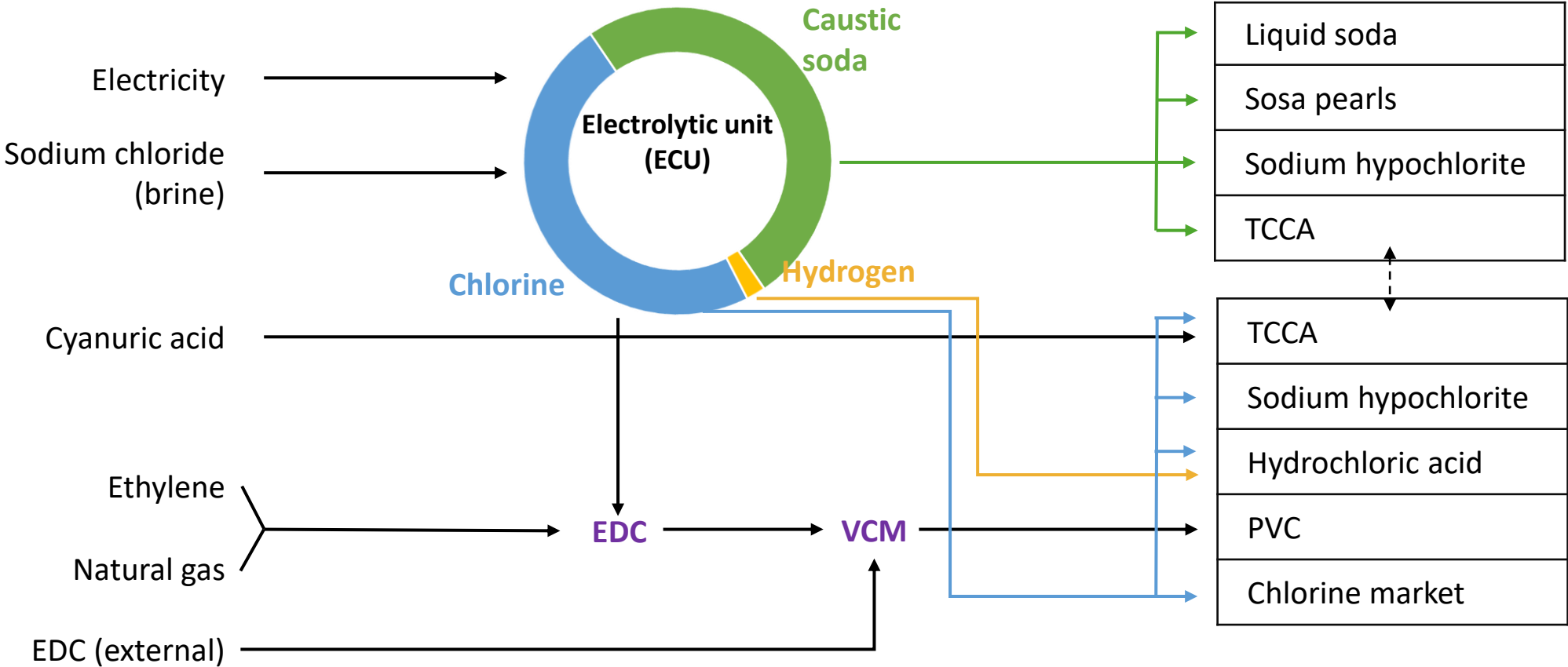


CHLORINE-SODA PROCESS

Raw materials / energy

Process unit

Final products



CONNECTION BETWEEN FACTORIES

Raw materials / energy

Process units

Final products

Electricity
Sodium chloride
Cyanuric acid



Sabiñánigo

Chlorate and chlorite
Ammonia and hydrogen peroxide
Caustic soda and TCCA

Electricity
Sodium chloride



Vila-seca I

Caustic soda
Hydrochloric acid
(synthesis) and hydrogen
hypochlorite

Chlorine



Market

Ethylene
Natural gas



Vila-seca II

EDC → VCM

EDC (external)

PVC



Monzón

PVC suspension

PVC compounds

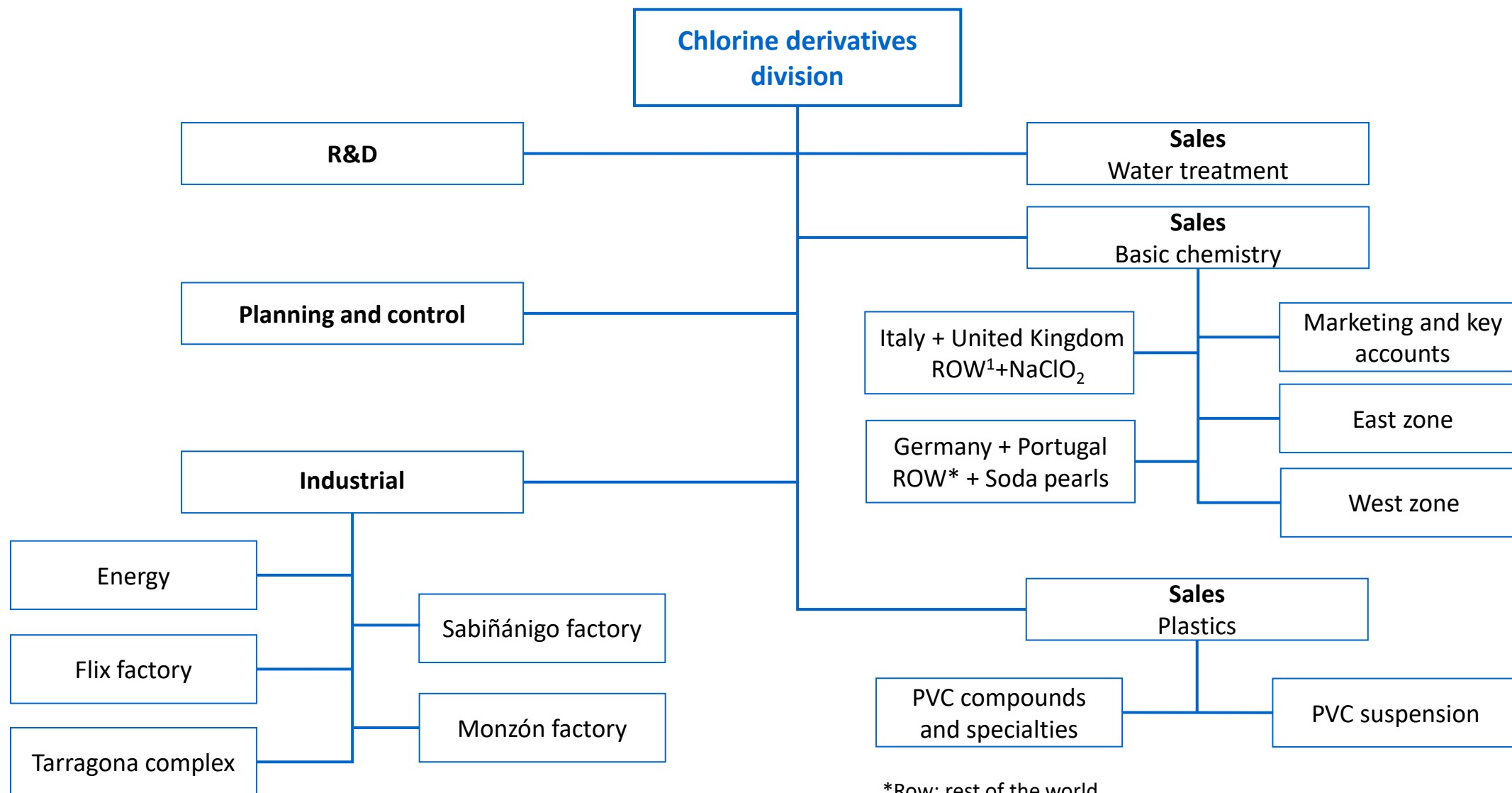
APPLICATIONS AND MARKET SHARE

Products	Applications
Caustic potash	Chemical industry
Caustic soda	General industry
Chlorine	Derivatives manufacture
EDC	VCM manufacturing
Hydrochloric acid	General industry
PVC	Construction
Sodium chlorate	Paper pulp bleaching
Sodium chlorite	Water treatment
Sodium hypochlorite	Water treatment
TCCA	Pool water
VCM	PVC manufacturing

Ranking by market share		
	Spain	Europe
Caustic potash	1 st	7 th
Caustic soda	1 st	9 th
PVC	1 st	9 th
Sodium chlorate	1 st	4 th
Sodium hypochlorite	1 st	11 th
TCCA	1 st	1 st

The data provided comes from calculations made by Ercros.

ORGANIZATIONAL STRUCTURE



*Row: rest of the world.

DIRECTORY 1/2

Director of the division

Francisco España

Industrial director of the division

Marc Fargas

Headquarters

Avda. Diagonal, 593-595

08014 Barcelona

E-mail: derivadosdelcloro@ercros.es

Tel.: +34 609 880 630 y +34 934 393 009

Basic chemicals

Sales manager: **Carles Arias**

E-mail: quimicabasica@ercros.es

Tel.: +34 609 880 630 y 934 446 651

R&D department manager: **Francisco Gracia**

Customer service centre (CSC)

E-mail: cac@ercros.es

East zone: Tel.: +34 902 518 100 & +34 934 446 682

West zone: Tel.: +34 902 518 400

Export: Tel.: +34 934 445 337 y +34 934 446 675

Plastics

Sales manager: **Bernat Iserte**

E-mail: plasticos@ercros.es

Tel.: +34 609 880 630 & 933 230 554

R&D department manager: **Manuel Tierno**

Customer service centre (CSC)

E-mail: cac@ercros.es

Tel.: +34 934 446 687

Water treatment

Product manager: **Natàlia Torrents**

E-mail: tratamientoaguas@ercros.es

Tel.: +34 609 880 630 & 934 532 179

R&D department manager: **Francisco Gracia**

Customer service centre (CSC)

E-mail: cac@ercros.es

Tel.: +34 934 532 179

DIRECTORY 2/2

Tarragona industrial complex

Director: **Joan Miquel Capdevila**

Tarragona factory

Polígono Industrial La Canonja

Carretera de Valencia, s/n

43110 La Canonja (Tarragona)

Mailing address: P.O. Box 450

43080 Tarragona

Tel.: +34 977 548 011

E-mail: complejotarragona@ercros.es

Vila-seca I factory

Autovía Tarragona - Salou C-31 B, km 6

43480 Vila-seca (Tarragona)

Tel.: +34 977 370 354

E-mail: complejotarragona@ercros.es

Vila-seca II factory

Carretera de la Pineda, km 1

43480 Vila-seca (Tarragona)

Tel.: +34 977 390 611

E-mail: complejotarragona@ercros.es

Sabiñánigo factory

Director: **Elena Simón**

C/Serrablo, 102

22600 Sabiñánigo (Huesca)

Tel.: +34 974 498 000

E-mail: sabinanigo@ercros.es

Monzón factory

Operations manager: **Rafael Mancho**

Carretera Nacional 240, km 147

22400 Monzón (Huesca)

Tel.: +34 974 400 850

E-mail: monzon@ercros.es

Flix factory

Coordinator: **Gonzalo Navarro**

C/Afores, s/n

43750 Flix (Tarragona)

Tel.: +34 977 410 125

E-mail: flix@ercros.es

ESG performance

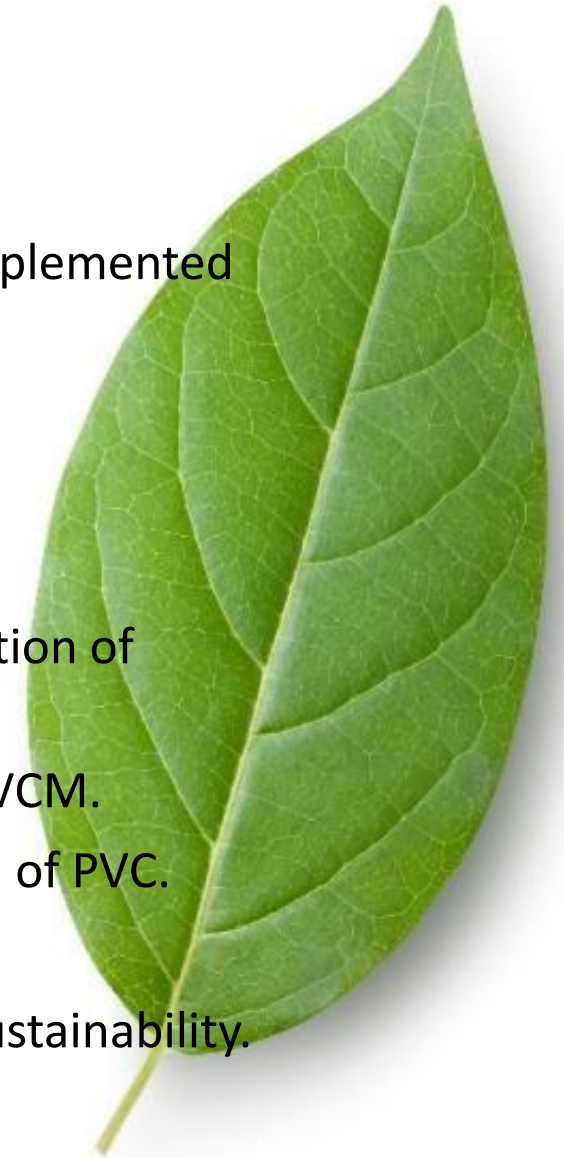
Environmental, social and governance



Environment

Certifications

- **ISO 14001:** Reference standard for the environmental management system, implemented in all factories.
- **ISO 14064:** CO₂ emissions verification standard.
- **ISO 50001:** Reference standard for the energy management system.
- **EMAS:** European Environmental Management System Registry.
- **ISCC PLUS:** Guarantees the provenance of renewable energy use in the production of chlorine derivatives.
- **ECVM Charter:** Recognizes sustainable practices in the production of PVC and VCM.
- **VinylPlus Supplier:** A benchmark in transparency in the sustainable production of PVC.
- **OCS:** Certifies the control of accidental losses of microplastics.
- **Ipes:** Recognizes companies in the Spanish plastics sector that work towards sustainability.



Environment

Voluntary programs

- **Green Hydrogen Platform of Southern Catalonia:** Interest group led by Rovira i Virgili University, whose goal is the implementation of green hydrogen.
- **RE4Industry:** EU project for 100% renewable energy for electro-intensive industries.
- **Climate Action of the Generalitat de Catalunya:** Commitment to achieving CO₂ emissions neutrality by 2050.
- **Carbon Disclosure Project (CDP):** Organization designed to assess the performance of member companies regarding the climate emergency. In 2024, Ercros obtained a B (Management) rating on a scale of A to E.



Safety, quality, production and distribution

Certifications

- **ISO 45001:** Standard certifying health and safety management, implemented in all factories.
- **Sigos:** Standard certifying the application of a healthy organization management system (Sigos).
- **ISO 9001:** Standard certifying quality, implemented in all factories.
- **FDA:** US Food and Drug Administration seal certifying pharmaceutical products (API).
- **GMP and GDP:** International approval for the production and distribution of APIs.
- **AEO:** Certificate from the State Tax Administration Agency as an authorized economic operator.



Governance and CSR

Certifications and voluntary programs

- **CSR Company:** CSR Certification as a company in the Responsible Care program.
- **IBGC:** Certificate of compliance with the good corporate governance index.
- **UNE 19601:** Accreditation of the criminal compliance management system.
- **ISO 27001:** Standard certifying the data protection system generated by Ercros and its stakeholders.
- **EcoVadis:** CSR rating agency. Ercros obtained 87/100 points and is in the Platinum category and among the top 1% of companies.
- **Responsible Care:** A global best practices program promoted by the chemical industry. Ercros obtained 85/100 points in the self-assessment questionnaire.
- **Global Compact:** A program promoted by the UN that contains 10 principles of action.
- **ESG Lighthouse Rating:** Promoted by the Spanish Institute of Analysts, it evaluates the level of compliance with ESG criteria. Ercros has obtained 86/100 points.



Sustainable Development Goals (SDGs)

In the development of its activity, Ercros contributes to the fulfilment of the 17 SDGs set out 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 infrastructure.
- **SDG 12:** Responsible consumption and production.
- **SDG 13:** Climate action.



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