

A world leader in phosphate chemistry, Prayon has been operating in Belgium for over one hundred years. Our Group has a global presence, with four production sites, 30 manufacturing workshops and 100 local representative offices worldwide.

As Europe's leading manufacturer of purified phosphoric acid, we sell innovative, top-quality products to hundreds of sectors (foodstuffs, industry, horticulture, etc.).

Our technical expertise is acknowledged and used worldwide, even by our competitors. 50% of phosphoric acid production sites in the world are manufacturing under licence from Prayon and use equipment developed by us.

We are highly aware of our responsibilities in terms of health, safety and environmental protection, and constantly endeavour to improve our technologies, processes, equipment, products, storage methods and transport conditions.

We are indebted to nature for the benefits of phosphorus. We are indebted to our 1,400 staff worldwide. We are indebted to our customers for their trust. Welcome to the world of Prayon!



Yves Caprara
Chief Executive Officer

Contents

Prayon worldwide	P 4	Product quality	P 24	Environmental protection	P 33
Our products	P 6	Quality of services	P 27	Our group	P 34
Our products, food applications	P 8	Technologies	P 28	Turnover	P 35
Our products, industrial applications	P 14	Equipment	P 29	Contact details	P 36
Our products, fertilisers	P 20	Management Systems	P 30		
Innovation	P 22	Safety of people and property	P 30		

**+ Our production sites
Our commercial network = Prayon's
strength**



- 4 production sites:
3 in Europe and
1 in the United States
- 7 commercial
subsidiaries in Europe
and in the United States
- Local representative
offices in more than
100 countries across
the world
- 6 coordination offices:
Central America, South
America, Central &
Eastern Europe, India,
South East Asia, Asia
Pacific

Prayon worldwide



ENGIS - BELGIUM



PUURS - BELGIUM



LES ROCHES - FRANCE



AUGUSTA - USA

Our products

Products for people

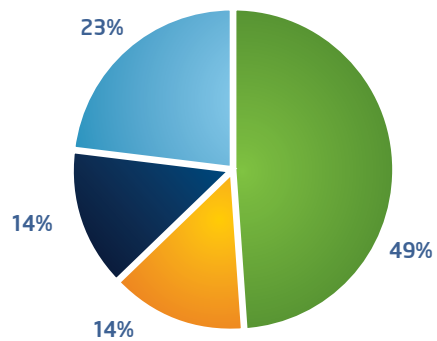
Prayon manufactures an extensive range of purified phosphoric acids, phosphate salts and fluorine products, as well as a series of specialty chemicals such as zeolites and sulphuric acid.

At our plants, we transform phosphate ore into phosphoric acid. Once purified, this acid is either sold or processed into phosphate salts by reaction with alkalis.

These products are naturally healthy and are used as raw materials in many areas of daily life.

They can be found in food applications, cutting-edge industrial applications and specific fertilisers.

Below is the share of each of these areas in our turnover for 2010:



Total: €681 million

- Foodstuffs: 23%
- Fertilisers: 14%
- Horticulture: 14%
- Technical: 49%

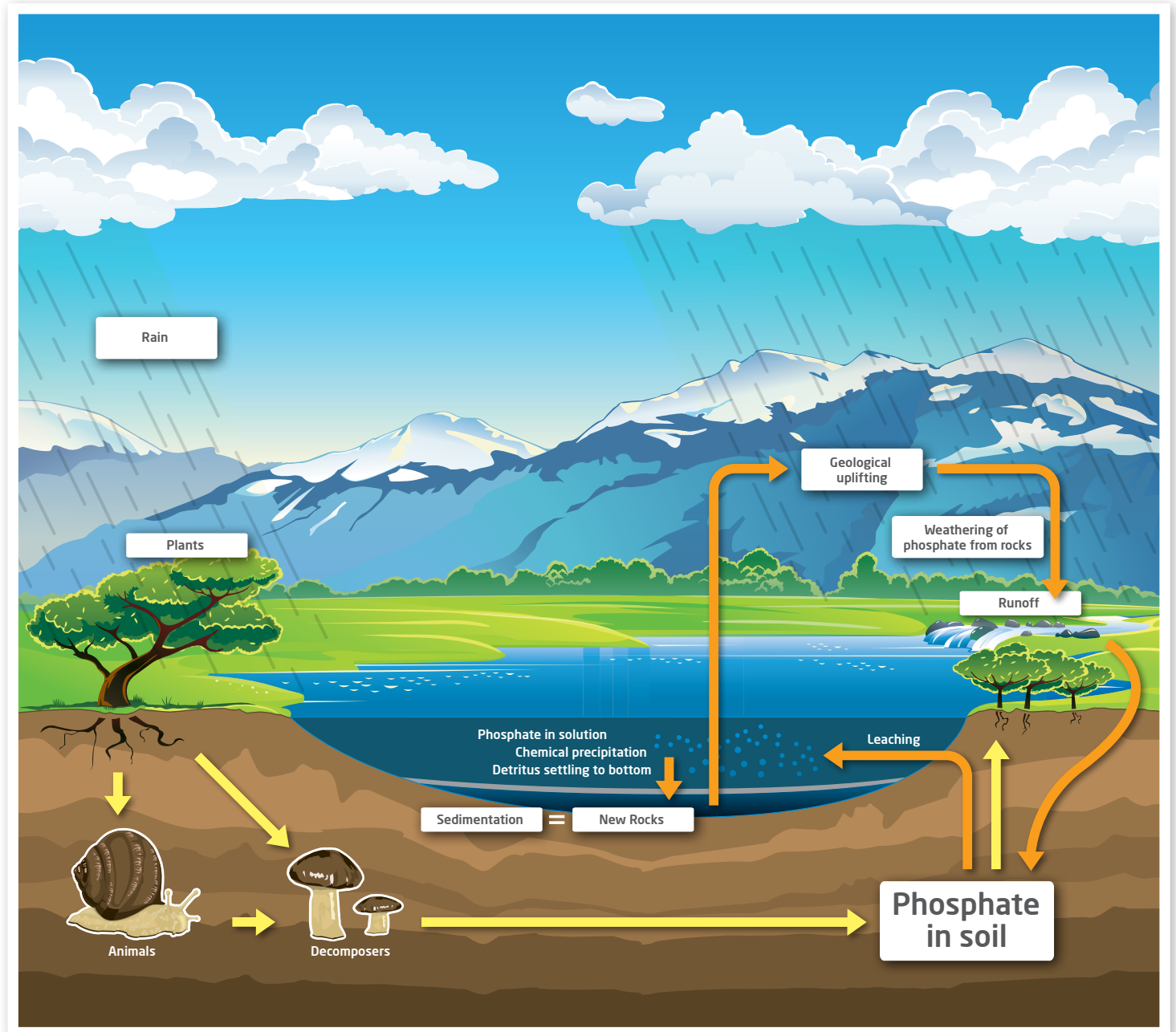


The benefits of phosphorus

Phosphorus, which is present in the human body in a proportion of about 10 g/kg, is as indispensable to life as calcium, nitrogen, carbon, hydrogen and oxygen. It is a component of our bones, teeth and nervous system, as well as of the DNA which transmits our genetic heritage.

Like calcium, phosphorus needs to be absorbed from an external source, such as the phosphate salts in food. Better still, tricalcium phosphates and potassium phosphate enable calcium and phosphorus intake to be combined and improve the nutritional properties of many products.

Phosphorus is an integral part of the living world. Like other elements, it can be found in various forms in nature. These various forms are balanced and transformed according to a natural cycle.



Our products, food applications

Our products, our quality trademarks



carfo^osel



kas^onel

Fish and seafood

excellent retention of natural juices at freezing stage



carfoosel

Cakes and bakery products

leavening agent



praylev

Beverages

acidity regulator and mineral balance



prayphos

Our products, **food applications**

Our products, **our quality trademarks**



Pet food

preservation
of taste and
nutritional
properties,
adjustment
of mineral
balance



prayphos
carfosel

Water treatment

anti-limescale
and anti-
corrosion agent,
sequestering
and buffering
agent



prayphos
fluopray

Our products, food applications

Phosphates are naturally present in most foods and are valuable aids to all food processing processes.

Our product range is divided into two major groups:

Purified phosphoric acid Special salts

Prayon is Europe's leading manufacturer of purified phosphoric acid. Sold under the brand name **Prayphos**, our purified phosphoric acid is available in various qualities and concentrations.

(sodium, potassium and calcium salts)

Our range of food phosphates is divided into single phosphates sold under the name **Prayphos** and specialties intended for specific industries. The latter include the **Carfosel "I"** range for the meat, fish and seafood processing industries, the **Kasomel** range for the process cheese industry, and **Praylev** for the baked goods industry.

Prayon's food applications laboratory enables it to meet market requirements and offer innovative products consistent with the latest food trends.

Customers can contact the laboratory to request information or obtain technical assistance with the use of phosphates.





Our products, industrial applications

Our products, our quality trademarks



**Flame
retardants**

fire retardants



prayphos
MAP DAP

**Plaster and
cement**

set retardant



prayphos
polypray

calcium
sulfate

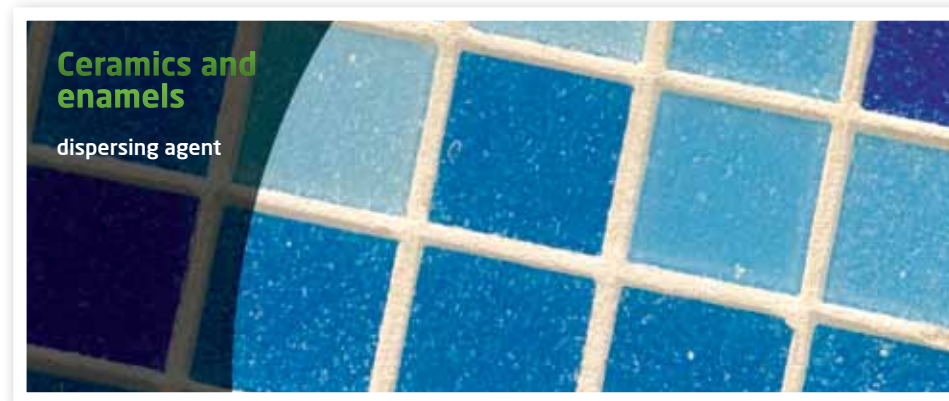
**Water
treatment**

anti-limescale and
anti-corrosion
agent,
sequestering
and buffering
agent



prayphos
fluopraysolupray

Our products, industrial applications



Our products, our quality trademarks

prayphos

prayphos
fluoprayer



prayphos
praytab



prayphos
fluoprayer



prayion

Our products, industrial applications

Prayon products have a huge range of industrial applications. As well as those shown in previous pages, they are used as ingredients in detergents, paper, porcelain, paints and countless other everyday products.

We sell four main groups of products for industrial applications:

Purified phosphoric acid

Purified phosphoric acid is manufactured using our own solvent extraction process and marketed under the name **Prayphos** in different grades and concentrations.

Production sites:

- **Engis and Puurs** (Belgium): 250,000 T P₂O₅/year
- **Jorf-Lasfar** (Morocco), via Emaphos (joint venture 33.33% owned by Prayon): 150,000 T P₂O₅/year

Phosphate salts

Sodium, potassium, calcium, ammonium and aluminium phosphates, as well as a wide variety of specialties made from these products and marketed under the names **Polypray**, **Solupray** and **Hortipray**.

A large proportion of our phosphate salts are sold under the name **Prayphos**.

The Group's annual phosphate-salt production is approximately 300,000 T.

Production sites:

- **Engis and Puurs** (Belgium)
- **Les Roches de Condrieu** (Lyon, France)
- **Augusta** (Georgia, USA)

Fluorine salts

Sodium fluoride in various grades (sold under the name **Fuopray**) and sodium and potassium fluosilicates.

The Group's annual production is the following:

- 18,000 T sodium fluosilicate (SSF)
- 6,000 T sodium fluoride (NaF)
- 3,000 T potassium fluosilicate (PSF)

Production site:

- **Puurs** (Belgium)

Zeolites

Various grades dedicated to molecular sieve and laundry.

Production site:

- **Engis** (Belgium): 50,000 T/year



Our products, fertilisers



Hortipray is our comprehensive new range of soluble fertilisers for blenders of water-soluble NPKs and for distributors who specialise in supplying professional growers.

The **Hortipray** range provides fruits, vegetables, flowers and plants with optimal levels of nutrients.

The Hortipray range includes:

- **Monoammonium Phosphate (MAP)**
- **Monopotassium Phosphate (MKP)**
- **Potassium Nitrate (NOP)**
- **Calcium Nitrate**
- **Magnesium Sulphate**
- **Acidic PK**
- **Reciclean® (for cleaning of irrigation systems).**

Prayon has been manufacturing horticultural phosphates for over 40 years and is the exclusive potassium nitrate distributor for Europe, Turkey and the Maghreb countries. This potassium nitrate is produced by Jordanian company Kemapco.

It contains the three main nutrients: nitrogen (N), phosphorus (P) and potassium (K).

Our products are characterised by high purity and solubility, and are recognised for their extremely high quality.

We are currently developing our product portfolio with a view to offering our customers a full range of soluble fertilisers and becoming their one-stop supplier.



Innovation

Innovation to meet the challenges of the 21st century

Today, while constantly improving our existing activities, we have decided to place innovation at the centre of our economic model and make it a core value of our company.

Our innovations are the combined outcome of our staff's creativity, customer requirements and studies by our academic and research partners worldwide.

The expertise of these highly creative partners with their state-of-the-art technologies, combined with Prayon's financial backing, its ability to optimise production and its international sales network, leads to the development of new products.

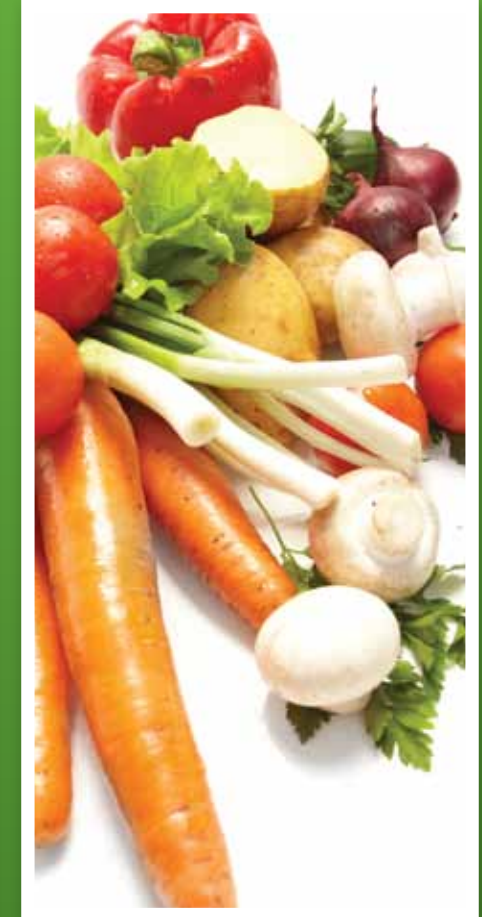
These new products have allowed us to break into markets as diverse as energy, water treatment and probiotics. They also enable us to meet 21st century challenges such as the increasing scarcity of natural resources, a growing population and technological change.

Our Innovation Department is constantly on the lookout for original and creative ideas. If you have a project or suggestion, why not get in touch?

Water



Foodstuffs



Climate



Energy



Health



Natural resources

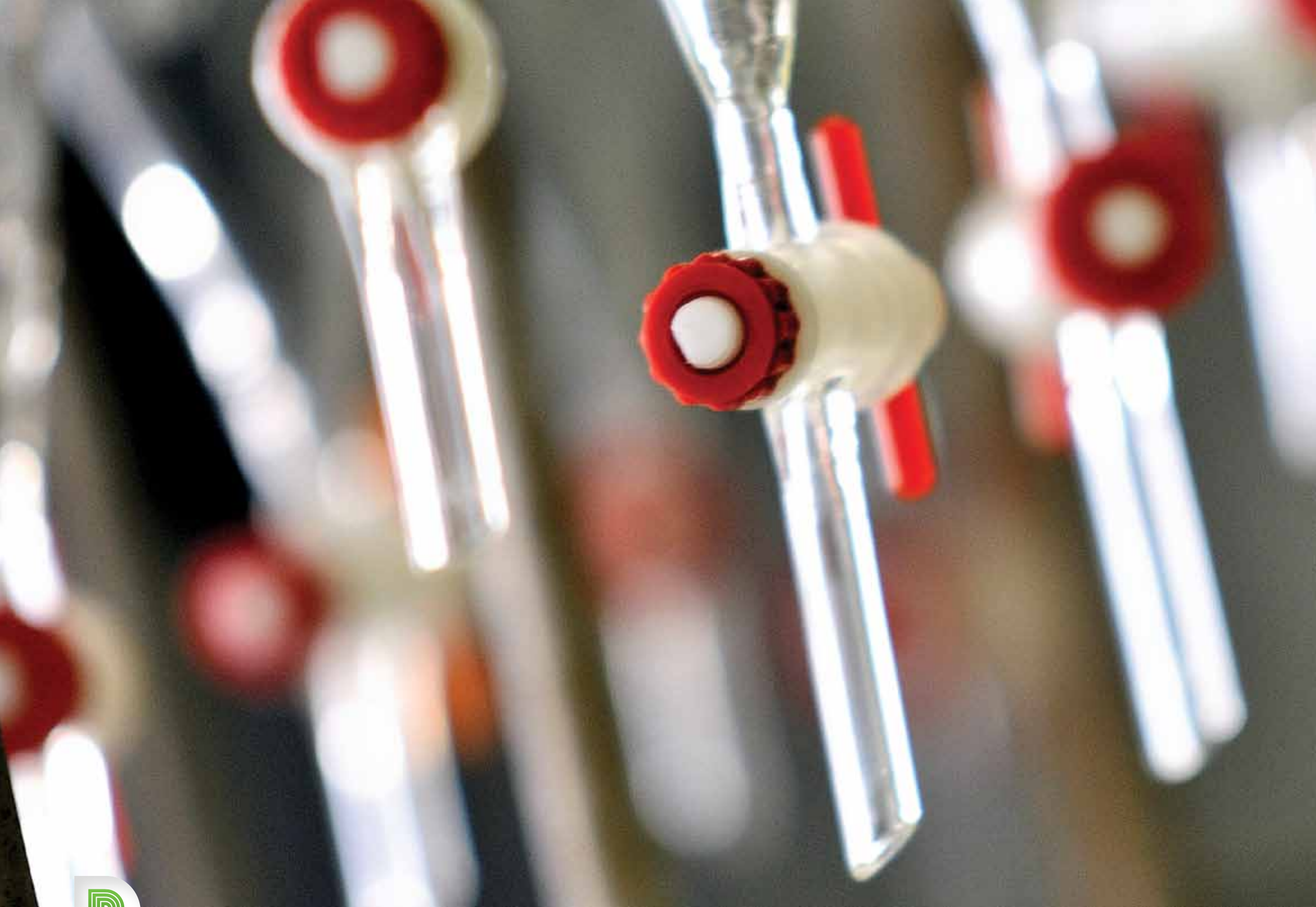


Product quality

- The Prayon Group is renowned worldwide for the quality of its products.
- We have the following certifications: ISO 9001, ISO 14001, OHSAS 18001 (quality management system), ISO 22000 (food safety).
- We apply an HACCP approach on all food-product lines.
- All our products meet the requirements of current European legislation.
- Our food products are Kosher and Halal certified. In the United States, we are certified by the American Institute of Baking (AIB), an independent food hygiene inspection body.
- In the area of water treatment, we have also been awarded NSF (National Sanitation Foundation) certification for various phosphates, which confirms that they can be used in drinking water.
- Our packaging, labelling, and storage and dispatching conditions also comply with current European legislation and regulations governing the transportation of dangerous substances (ADR, ADNR, RID, etc.).







Quality of services

- Prayon has a global sales network that can respond swiftly to customer suggestions and requirements.
- From our specialised application laboratories, we supply information, technical support and training to our customers.
- We are always on the lookout for innovative and effective solutions to improve our logistical flows and enhance the service we provide to our customers in compliance with applicable regulations.

Technologies

The mission of **Prayon Technologies (PRT)** is to expand, promote and sell the expertise, technologies and processes developed by our Group. PRT also supplies consultancy and support services.

PRT has over 60 years' experience in designing and operating phosphoric acid manufacturing units.

Over 50% of the world's phosphoric acid is currently manufactured by plants that use Prayon technology.

PRT's main areas of activity are:

Process licensing:

- phosphoric acid production (Mark IV, CPP, PH1, PH2, PH3 processes)
- phosphoric acid concentration
- fluorine recovery
- gas scrubbing
- phosphoric acid purification
- gypsum purification
- uranium extraction from phosphoric acid.

Consulting:

- technical support for existing units
- training of operators
- phosphate rock evaluation.





Equipment

Our Process Filtration & Liquid Equipment division (**PROFILE**) develops and sells process equipment mainly designed for phosphoric acid production units. This equipment is also suitable for other

fields of the chemical industry, including hydro-metallurgy of metals, washing of active carbon impregnated with P_2O_5 , washing of phosphate and filtration of acids in general.

PROFILE specialises mainly in the following areas:

The design and development of equipment for

- filtration
- agitation
- gas scrubbing.

Technical support and training

- quality control of equipment
- on site erection supervision of equipment for new plants or revamping
- technical audits
- specific training on all equipment sold by PROFILE.

Management systems

Prayon has developed its own Management System.

This Management System enables us to continually adapt and improve our performance. It factors in all of the quality, health, safety and environmental standards with which we comply.

Safety of people and property

Health and safety is our top priority.

The Prayon **Risk Management Unit** has a zero-accident goal at and around production sites.

As a **Seveso company**, our safety management is further enhanced by very stringent inspections performed by the relevant authorities.





Environmental protection

We have made a commitment to sustainable development in many areas. Our focused action to reduce the negative impact of our activity has enabled us to achieve **ISO 14001** certification.

Our manufacturing processes are **efficient in terms of energy and raw materials**. What's more, our production facilities at Engis and Puurs have on-site **power cogeneration units**. As a result, the Engis site is virtually energy self-sufficient.

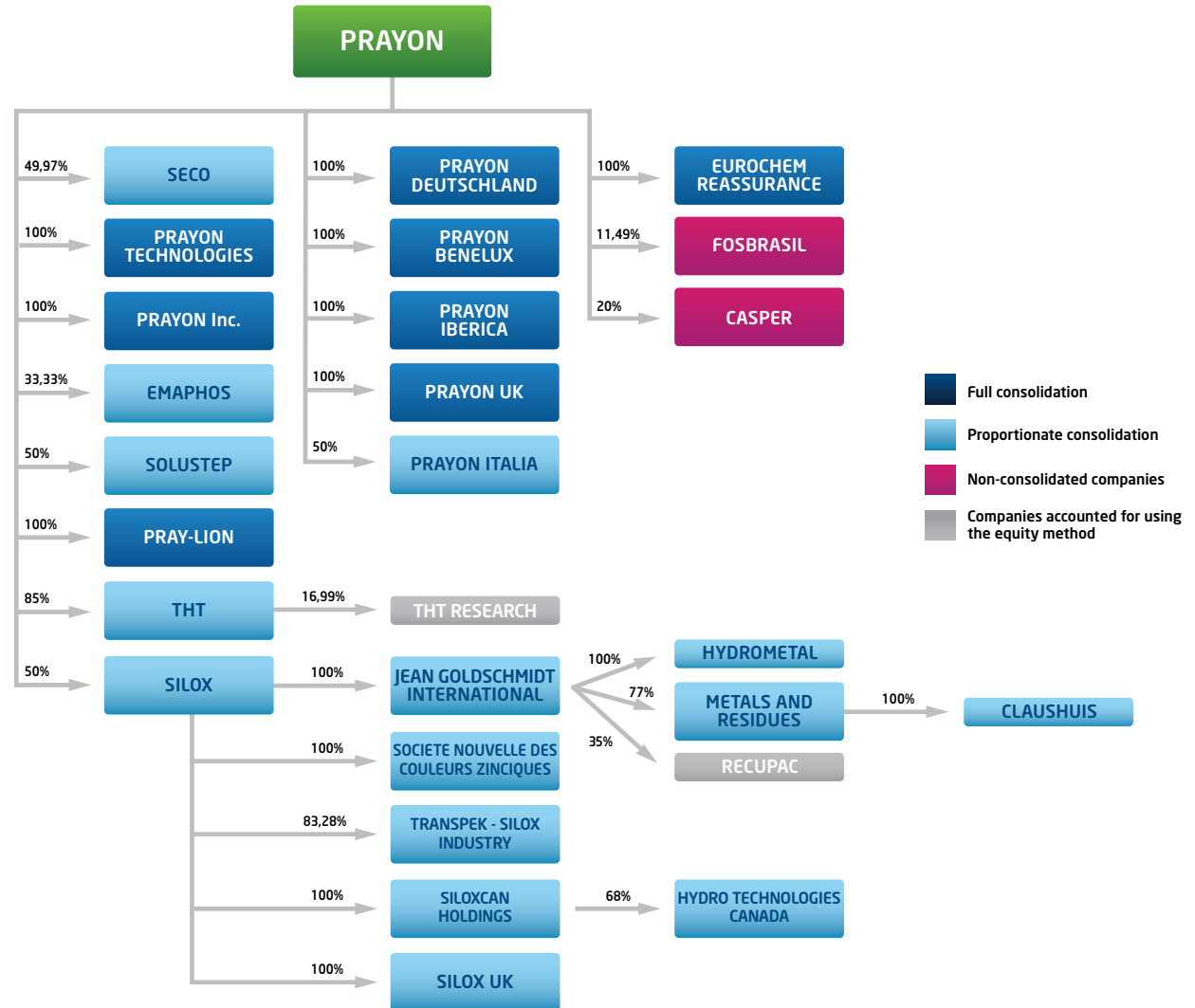
We **utilise our by-products and waste**. For instance, 70% of the calcium sulphate from our phosphoric acid production is sold to the plaster and cement industry.

We **optimise transport**, both externally and within production sites.

Our group

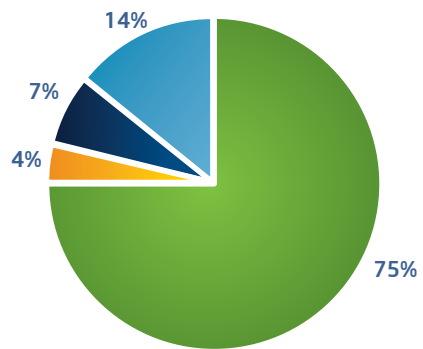
The Prayon Group is owned equally by the Wallonia Regional Investment Company (SRIW) and Office Chérifien des Phosphates (OCP).

Prayon comprises around 20 companies, mainly active in the field of phosphate chemistry. Via our subsidiary SILOX, we also manufacture specialty inorganic chemicals (zinc oxide, sodium hydrosulphite, anticorrosion pigments, etc.).



Turnover

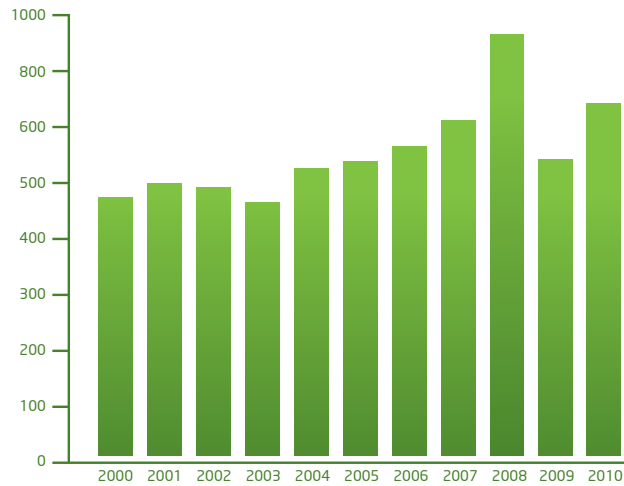
2010 turnover



Total: €681 million

- America: 14%
- Asia: 7%
- Europe: 75%
- Other: 4%

Increase in turnover



Contact details

Headquarters & production sites

ENGIS

Rue J. Wauters 144
B-4480 Engis - BELGIUM
Tel.: +32 4 273 92 11
Fax: +32 4 273 96 35

E-mail: contact@prayon.be

PUURS

Gansbroekstraat 31
B-2870 Ruisbroek - BELGIUM
Tel.: +32 3 860 92 00
Fax: + 32 3 886 30 38

E-mail: vdeboeck@prayon.be

LES ROCHES DE CONDRIEU

Avenue Berthelot
Saint Clair du Rhône
F-38556 St Maurice l'Exil Cedex - FRANCE
Tel.: +33 437 04 84 00
Fax: + 33 437 04 84 10

E-mail: LDalicieux@prayon.be

PRAYON Inc.

1610 Marvin Griffin Road
Augusta - GA 30906 (USA)
Tel.: +1 706 771 34 15
Fax: +1 706 771 93 90

E-mail: customerservice@prayoninc.com

Technologies & equipment

PRAYON TECHNOLOGIES (PRT)

Marc COLLIN
Rue Joseph Wauters, 144
B-4480 Engis - BELGIUM
Tel.: +32 4 273 93 41
Fax: +32 4 275 09 09

E-mail: prt@prayon.be

PROFILE

Erik DESMET
Rue Joseph Wauters, 144
B-4480 Engis - BELGIUM
Tel.: +32 4 273 96 52
Fax: +32 4 275 62 06

E-mail: profile@prayon.be



Contact details

Commercial subsidiaries & local sales coordinators

PRAYON BENELUX n.v.

Gansbroekstraat, 31 a
B-2870 Ruisbroek - BELGIUM
Tel.: +32 3 860 18 28
Fax: +32 3 860 18 29

E-mail: prayonbenelux@prayon.be

PRAYON ITALIA srl

Via Salutati 7
I-20144 Milan - ITALY
Tel.: +39 02 43 81 11 80
Fax: +39 02 43 81 11 21

E-mail: prayonitalia@iol.it

PRAYON Inc.

1610 Marvin Griffin Road
Augusta - GA 30906 - U.S.A.
Tel.: +1 706 771 93 20
Fax: +1 706 771 93 90

E-mail: customerservice@prayoninc.com

PRAYON FRANCE

Ets des Roches
Avenue Berthelot - Saint Clair du Rhône
F-38556 St Maurice l'Exil Cedex - FRANCE
Tel.: +33 437 04 84 55
Fax: +33 437 04 84 49

E-mail: ypanel@prayon.be

PRAYON IBERICA s.a.

C/Francisco Gervas, 14 1A
28020 Madrid - SPAIN
Tel.: +34 915 553 002
Fax: +34 915 553 109

E-mail: picomercial@prayoniberica.es

PRAYON INDIA

Akash Barthakur
202, Aashirwad Complex
D-1 (K-84), Green Park (Main)
New Delhi 110016 - INDIA
Tel.: +91 11 46115491
Fax: +91 11 26523870

E-mail: akash.barthakur@prayon.co.in

PRAYON DEUTSCHLAND GmbH

Prinz-Friedrich-Karl-Strasse 39
44135 Dortmund - GERMANY
Tel.: +49 231 55 79 90 0
Fax: +49 231 55 79 90 99

E-mail: verkauf@prayon.eu

PRAYON UK plc

Rivers Lodge - West Common
Harpenden Hertfordshire
AL5 2JD - U.K.
Tel.: +44 1582 76 99 99
Fax: +44 1582 76 99 89

E-mail: info@prayon.co.uk

PRAYON SOUTH EAST ASIA

Andy Tang
F-3-16, Suite 2, 101 Boulevard
Jalan Kenari 5, Bandar Puchong Jaya
47170 Puchong, Selangor - MALAYSIA
Tel.: + 603 8073 2644
Fax: +603 8073 2645

E-mail: atang@prayon.com.my

Regional sales coordinators

PRAYON CENTRAL AND EASTERN EUROPE

Radomira Dudlova
Nam. Fr. Krizika 2840
39001 Tabor - CZECH REPUBLIC
Tel.: +420 720 411 930
E-mail: radka.dudlova@prayon.cz

PRAYON ASIA PACIFIC

John Batty
9th Floor Henan Building
19 Luard Road Wanchai - HONG KONG SAR
Tel.: +852 3180 7855
Fax: +852 3180 7625
E-mail: jbatty@prayon.hk

PRAYON SOUTH AMERICA

Marcelo V. Mendes
Rua Jasmim, 170, apto 81
Chácara Primavera, CEP 13087 - 460
Campinas - SP
Brasil
Tel.: +55 19 3203-0747
Fax: +55 19 3203-0747
E-mail: veigamendes@bol.com.br

PRAYON CENTRAL AMERICA

Georgina Fragoso Estrada
Ejido #32 int. 17
CP. 54600 - Tepetzotlan - Mexico
Tel.: +52 55 5876 3574
Fax.: +52 55 5876 3574
E-mail: gfragoso@prayon.mx

