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Facts and figures



- 1 manufacturing site in France
- Classified SEVESO III Low Threshold
- Annual production : 250 to 300 MT



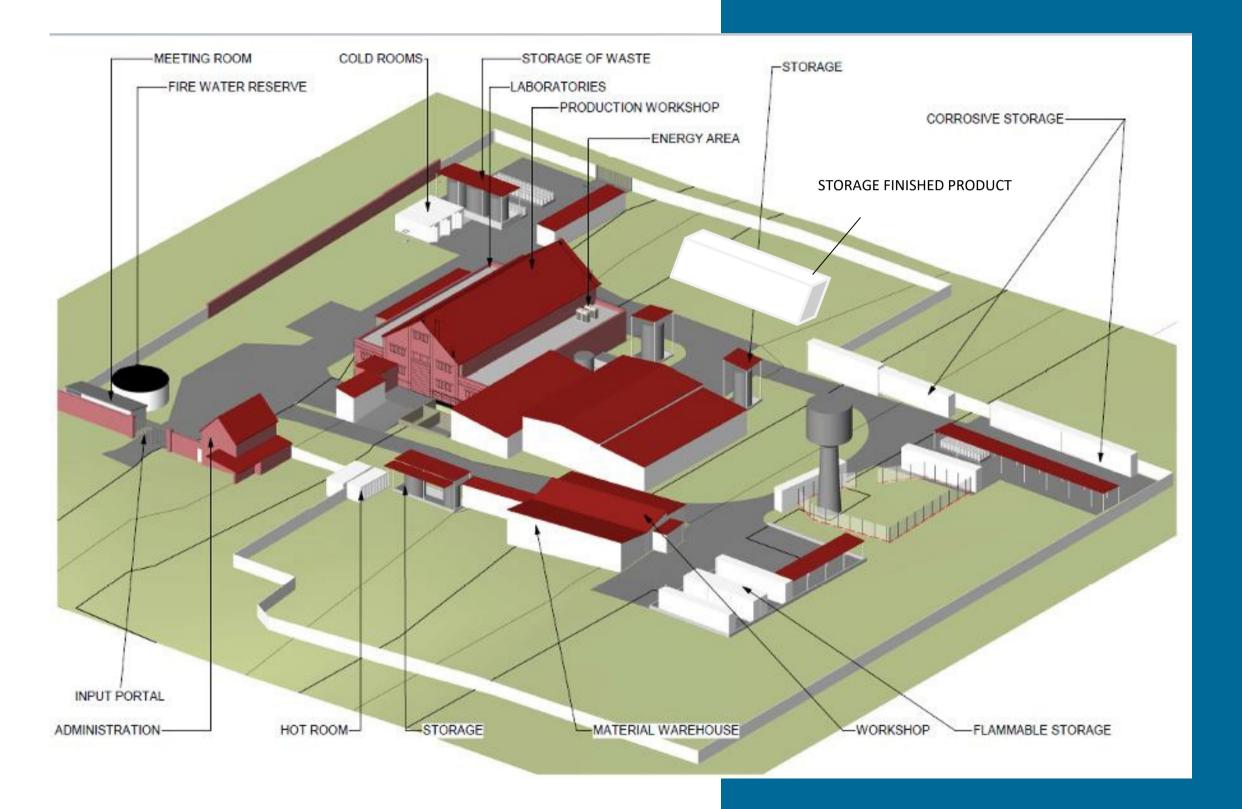
- Created in **1991**
- French independent company

- Production exported > 50%
- 34 employees





- **PALCHEM SITE** : 20 000 m²
- **PRODUCTION** : 600 m²
- **QC LAB** : 35 m²
- **R&D** : 70 m²
- **WAREHOUSE** : 400 m²



2) Confidential

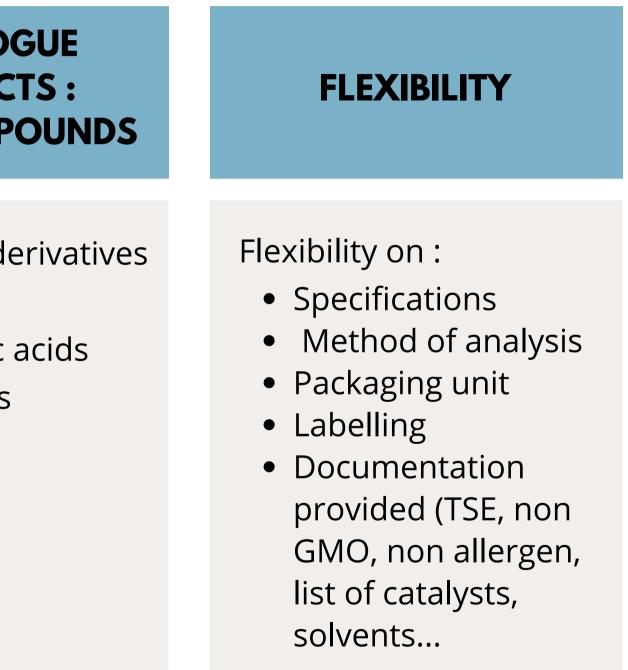
Manufacturing site



Core businesses

We are always diversifying our techniques and services to satisfy customers' needs

CUSTOM SYNTHESIS	TOLL MANUFACTURING	CATALOG PRODUCT +200 COMPO
Manufacturing process developed internally by our R&D	Process provided by customers and adapted to our facilities	 Bromide de Carboxylic a derivatives
Confidentiality Agreement	Confidentiality Agreement	

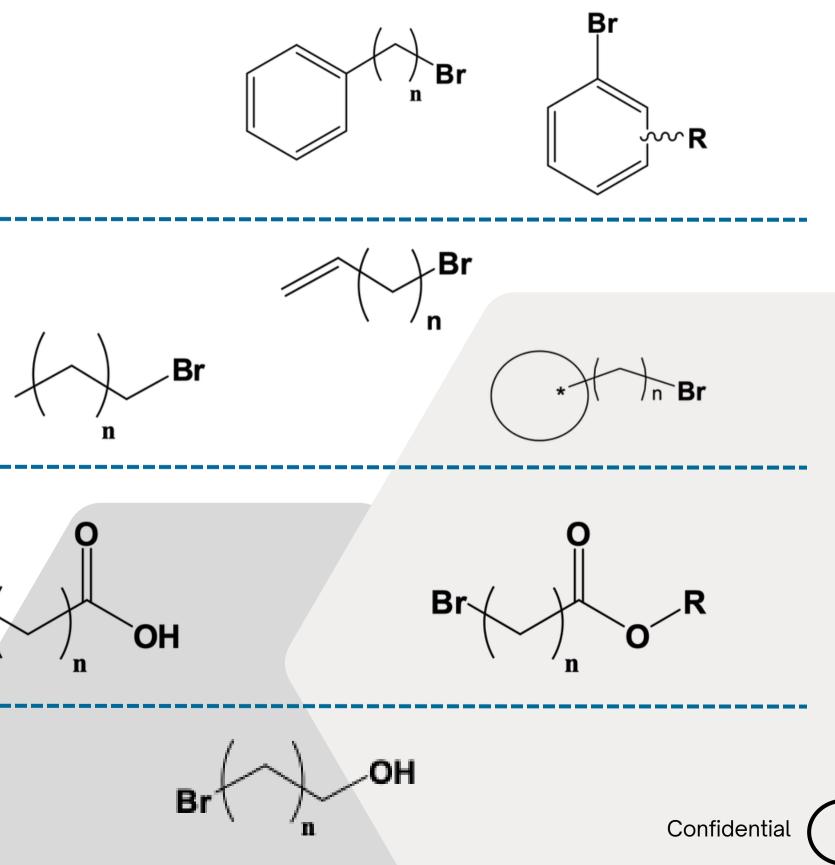




Catalogue products

• Arylalkyl bromides / Bromoaromatics n = 1, 2, 3,

• (Di)bromoalkanes / Bromoalkenes Bromocycloalkanes n = 0, 1, 2, 3,



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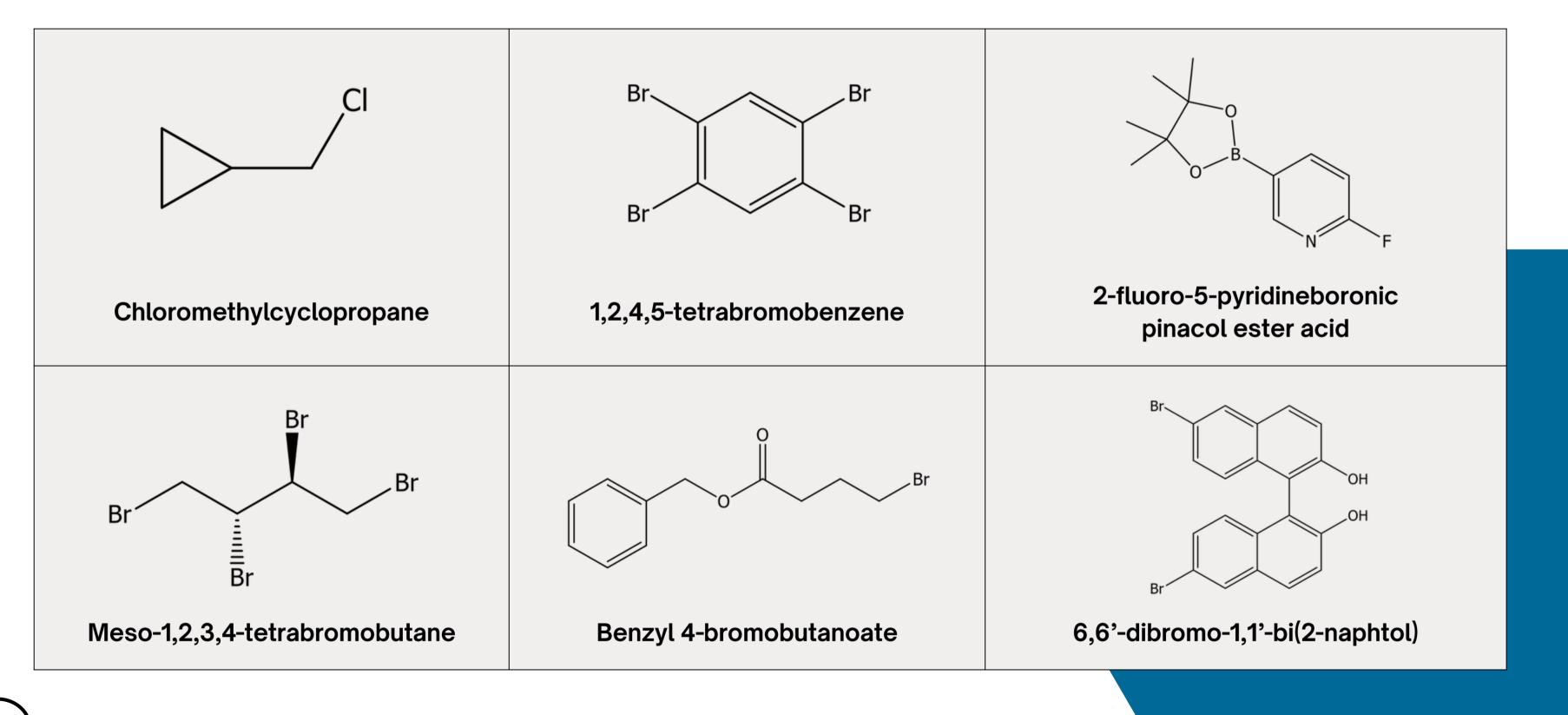
•Bromoacids /esters n = 1, 2, 3,

Br

•Bromoalcohols n = 1, 2, 3,

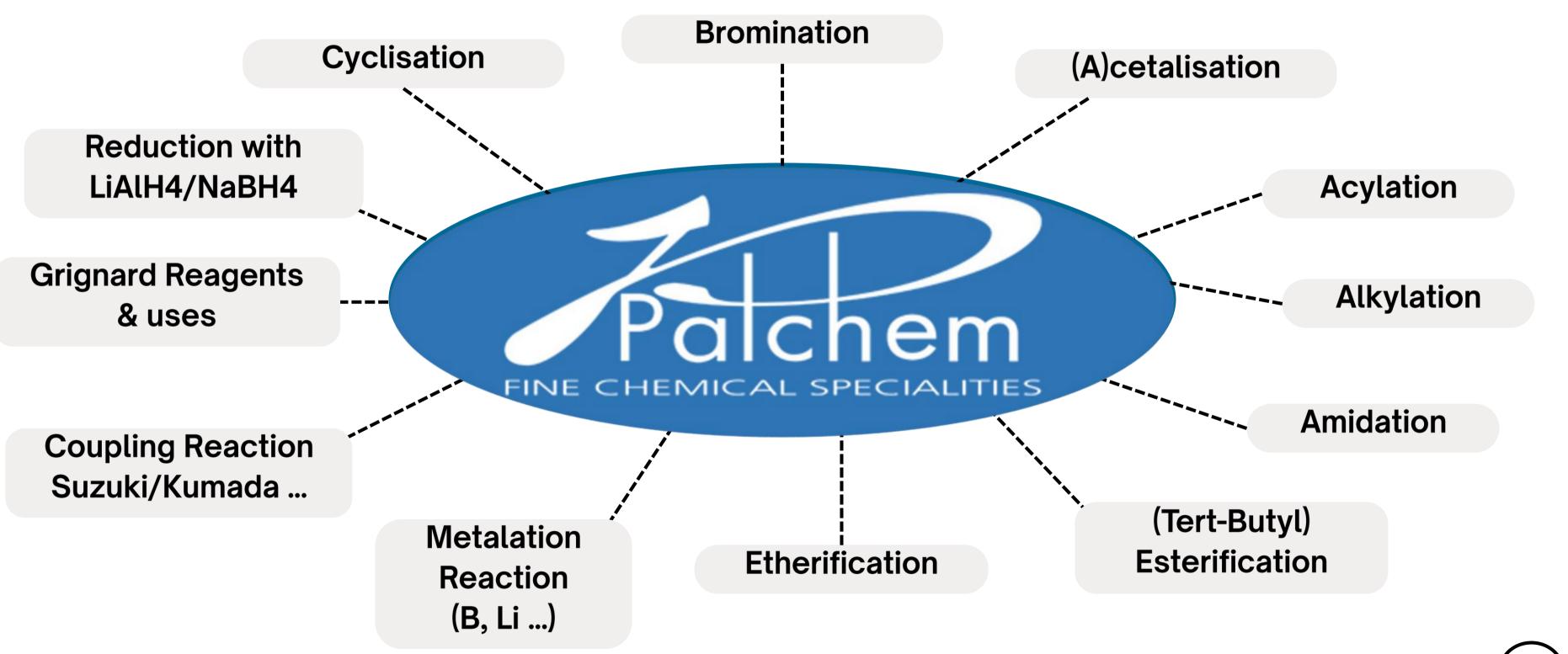


Products recently developed :





Key technologies





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Research and development



- Custom synthesis From few grams to few kg
- Optimisation of synthetic routes and process development
- 2011 : New lab equipped with 10L pilot lab reactor
 - Temperatures from 80 to +160°C
 - Vacuum until 0,5 mmHg
- Lab equipment :
 - Autoclave (700 mL / 85 bars)
 - Analytical equipment (HPLC/GC-MS/GC Headspace)
 - 25L pilot lab reactor



• Microdistillation (20-100mL) and distillation equipment (200-500mL)





• 4 multi-purpose glass lined reactors:

100, 250, 500 & 630 L (Useful Capacity: 1500 L)

• Services

Nitrogen, Argon, Vacuum until 0,5 mmHg
 Temperatures from - 80°C to + 160°C

- Fractional distillation
- Packed column with semi-automatic reflux head







Production facilities LAST INVESTMENTS





• Production capacity increase

- New reactor R14 (6300L)
- New gas scrubber
- Reactor R16 (3600L)
- Reactor R17 (500L)
- Reactor R15 (1000L)

• Safety improvements

- Renovation of the drying room dedicated to anhydrous oxalic acid
- Set up of new risk management measures for bromine handling

2 brand new reactors

- Reactor R19 (3300L)
- Reactor R21 (4500L)

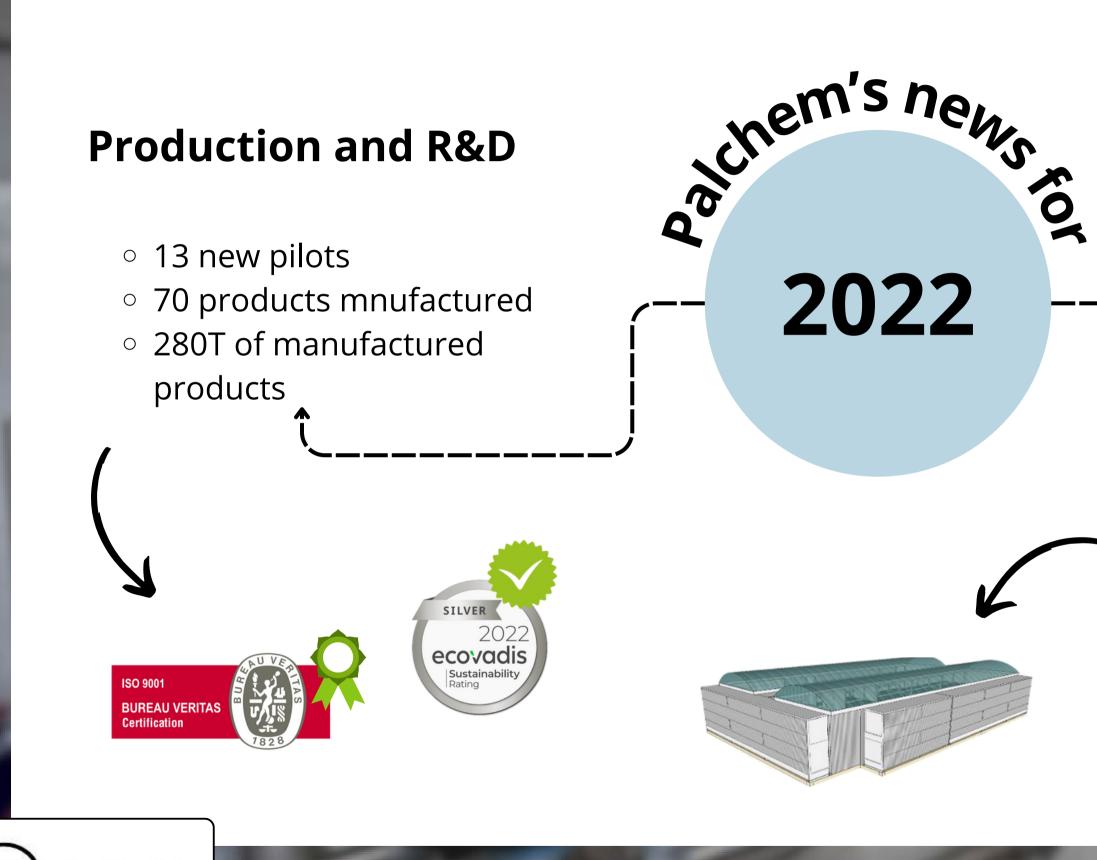
• Solids handling

- Increased capacity for solids with two dryer filters in Hastelloy
- Improvement of the containment of solids





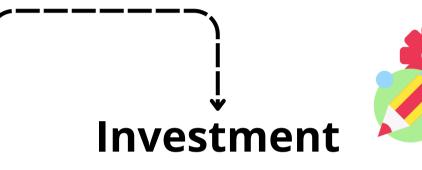
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- Increase distillation capacities in lab and production with new distillation / microdistillation facilities
- Upgrading production control lab
- New storage building





 +20 % increase of the team improved productivity with night + shift

Human

• 100% qualified chemists in production training program



- Always more projects and faster
- + 300 T of manufactured products
- + 15 new projects in 2023

CSR Corporate Social Responsibility 6

adichem com,

approach CSR approach awarded

NEWS 2023



Environment

- Willingness to recycle solvents and decrease environmental impacts
- Replacement by green solvent



Production

- New in-process control lab
- Increase cooling and heating capacities
- Increase storage capacities
- New glass-lined reactor





SILVER | Top 15%

ecovadis

Sustainability Rating

FEB 2024

Environment

- Reduce environmental impact and waste production as well as consumption of raw materials
- **Recycling and reusing of solvents**

Société Industrielle

Palchem commits to the health and well-being of its customers, its team and our planet



Youth employment & training

- 10% of trainees & 30% employees under 30 years old
- 70% had their first job at Palchem
- Sponsorship of universities and local schools to introduce careers in the chemical industry

Senior employment

support and training through to retirement

Decarbonation

Local purchases

CO2

- **Carbon footprint**
- Raising employee awareness



NEWS 2024

• 10% of employees of +55 years old

Reducing energy consumption











• IR

- GC / Headspace GC
- HPLC
- Karl Fischer

with local universities contracted



• Automatic titrator

- GC-MS
- Oven Karl Fischer

→ Complex analyses (NMR, DSC...) in collaboration

Residue on ignition and other analyses sub



A high performance team

100% chemists from R & D, **QC and Production**

QA system certified ISO 9001

Based on GMP



Multipurpose facilities

- Glass-lined reactors allowing a wide range of chemical reactions
- Large capacity of reactors from 1001 to 64001



Flexibility & Rapidity to develop New Products

- sustainable approach



Why choose

Palchem FINE CHEMICAL SPECIALITIES



• From the development (between 10-1000 kg) to the commerialization (10-100 t) • Manufacturing & development with

