



MENADIONA

50 years
SINCE 1970



Menadiona
COMPANY PROFILE

since
1970

“ Your trusted **European** manufacturer
in specialty chemicals ”



MENADIONA

50 years
SINCE 1970



INTRODUCTION

01



Established in **1970**



Independent **privately** owned company



Leadership position in **Aziridine Chemistry** and Derivatives



Producer of **Fine Chemicals & Organic** Intermediates



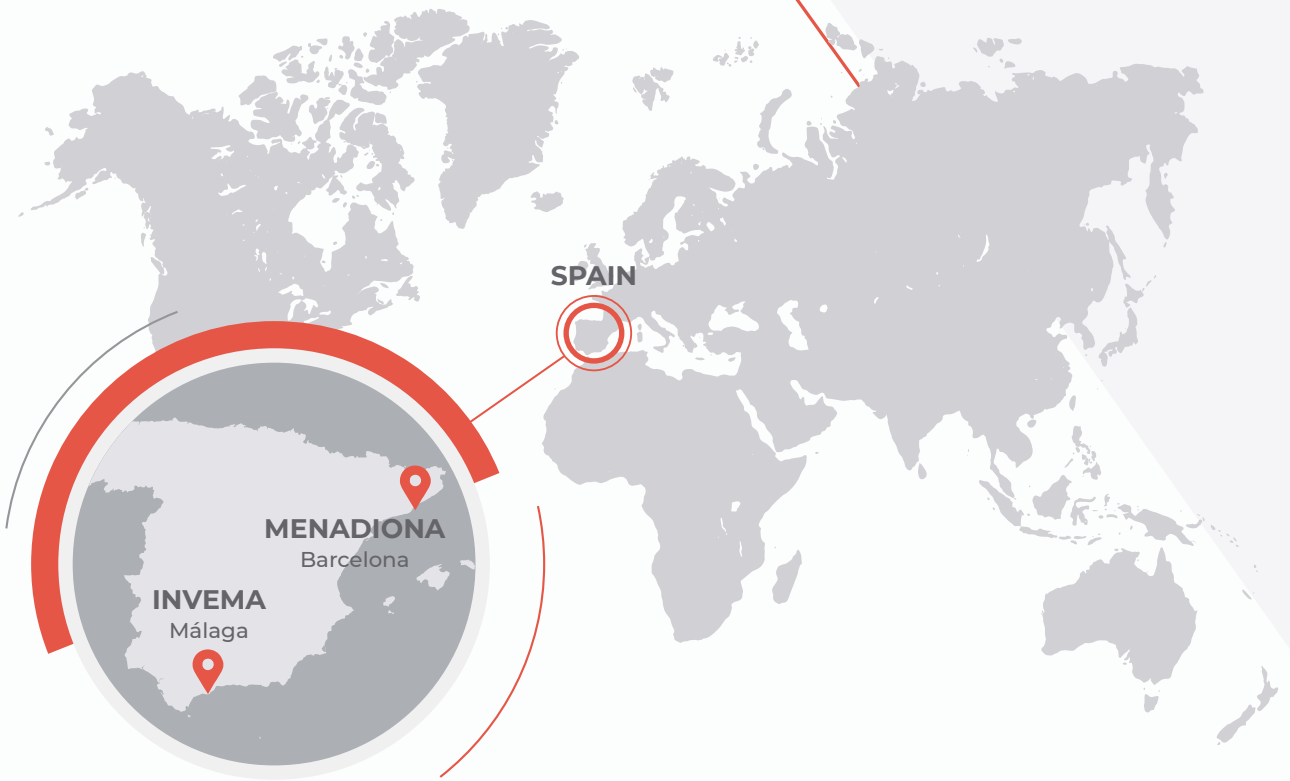
GMP-compliance and **FDA-** approved production facilities

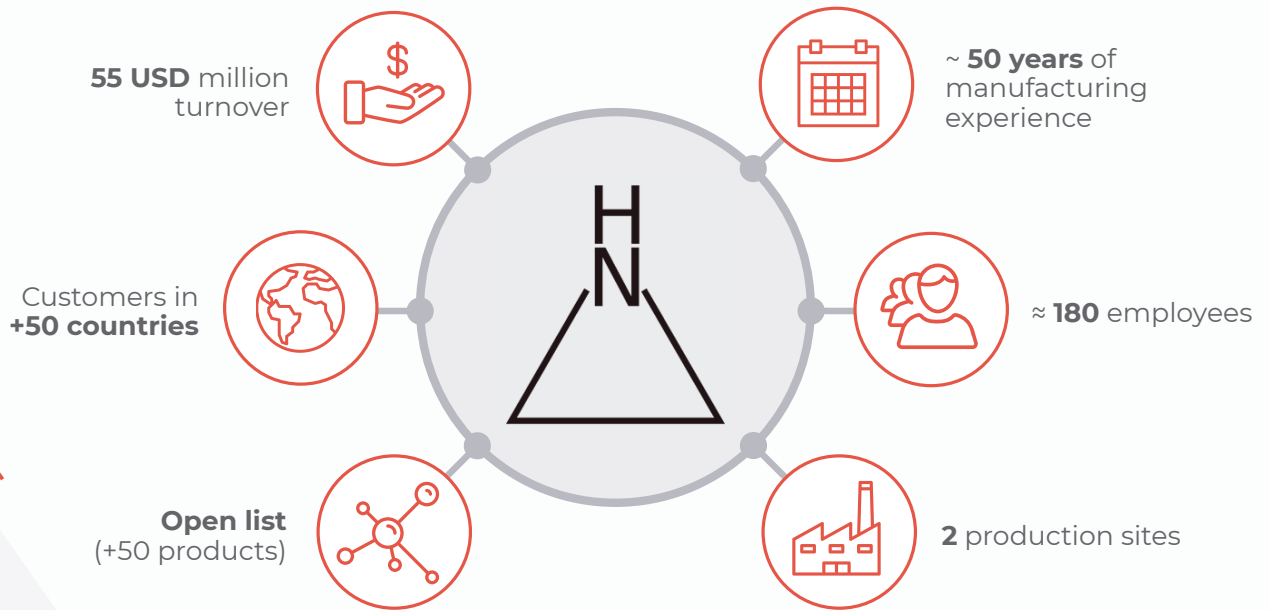


Long Term strategy

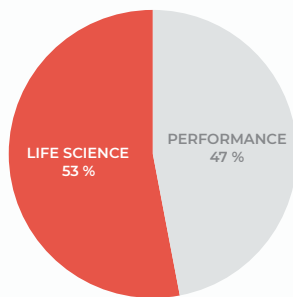


LOCATION 02

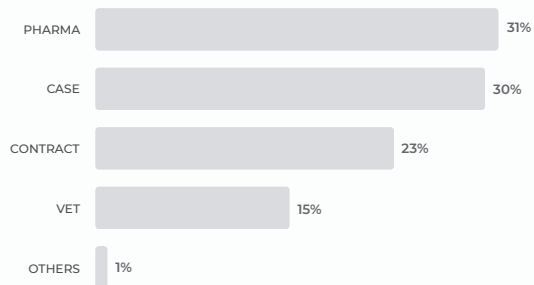




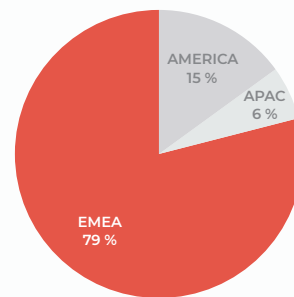
01 BY BUSINESS UNITS



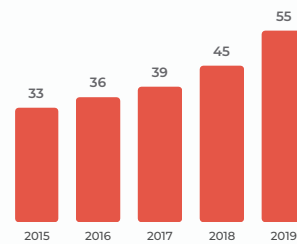
03 BY MARKET



02 BY REGION



04 SALES TREND (MILL €)





BUSINESS UNITS

05





BUSINESS UNITS 5.1

01 LIFE SCIENCE

APIS

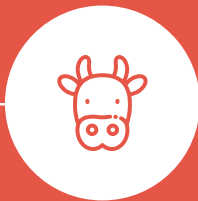
INTERMEDIATES

CUSTOM SYNTHESIS

CMO



PHARMA



VETERINARY



PLANT HEALTH



PERSONAL CARE



FOOD & FLAVOUR



BUSINESS UNITS 5.2

02 PERFORMANCE PRODUCTS

CROSSLINKERS

INTERMEDIATES

CUSTOM SYNTHESIS

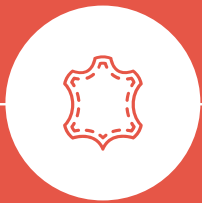
TOLLING



COATINGS
& INKS



ADHESIVES



LEATHER &
TEXTILE



PLASTIC ADDITIVES



CONVERTERS



BUSINESS UNITS 5.3

03 CONTRACT MANUFACTURING & CUSTOM SYNTHESIS

MENADIONA offers **contract development** and full **contract manufacturing** services of APIs, advanced intermediates, starting materials and industrial products.

MENADIONA delivers cost-efficient synthesis, process development and life-cycle management solutions to customers within the pharmaceutical value chain.



 Two manufacturing sites:


PALAFOLLS, Barcelona (Headquarters)

APIs production (GMP) - Specialty & Fine Chemicals – Custom Synthesis & Contract Manufacturing Services

R&D Laboratories

MALAGA

Specialty & Fine Chemicals – Custom Synthesis & Contract Manufacturing Services

 6 production buildings (2 of them dedicated to APIs manufacturing)




 Versatile Pilot Plant (60 to 1.500 litres)

 Overall reaction capacity of 400.000 litres




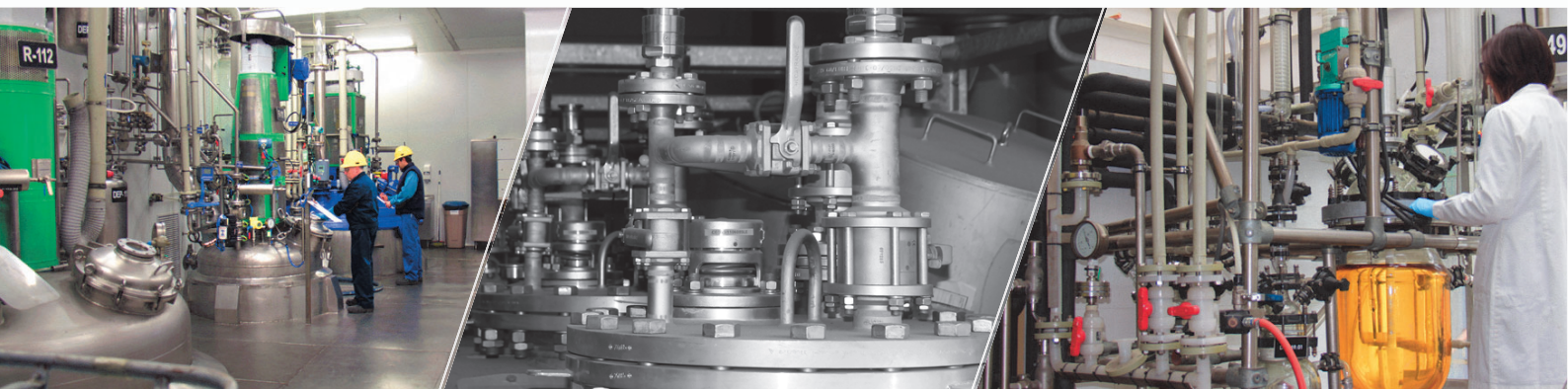


FACILITIES | PALAFOLLS 6.1

-  Hastelloy, glass-lined and stainless steel multipurpose reactors
-  Centrifuges and dryers
-  Services including water, steam, cold, pressurized air, nitrogen, vacuum and heat transfer fluid

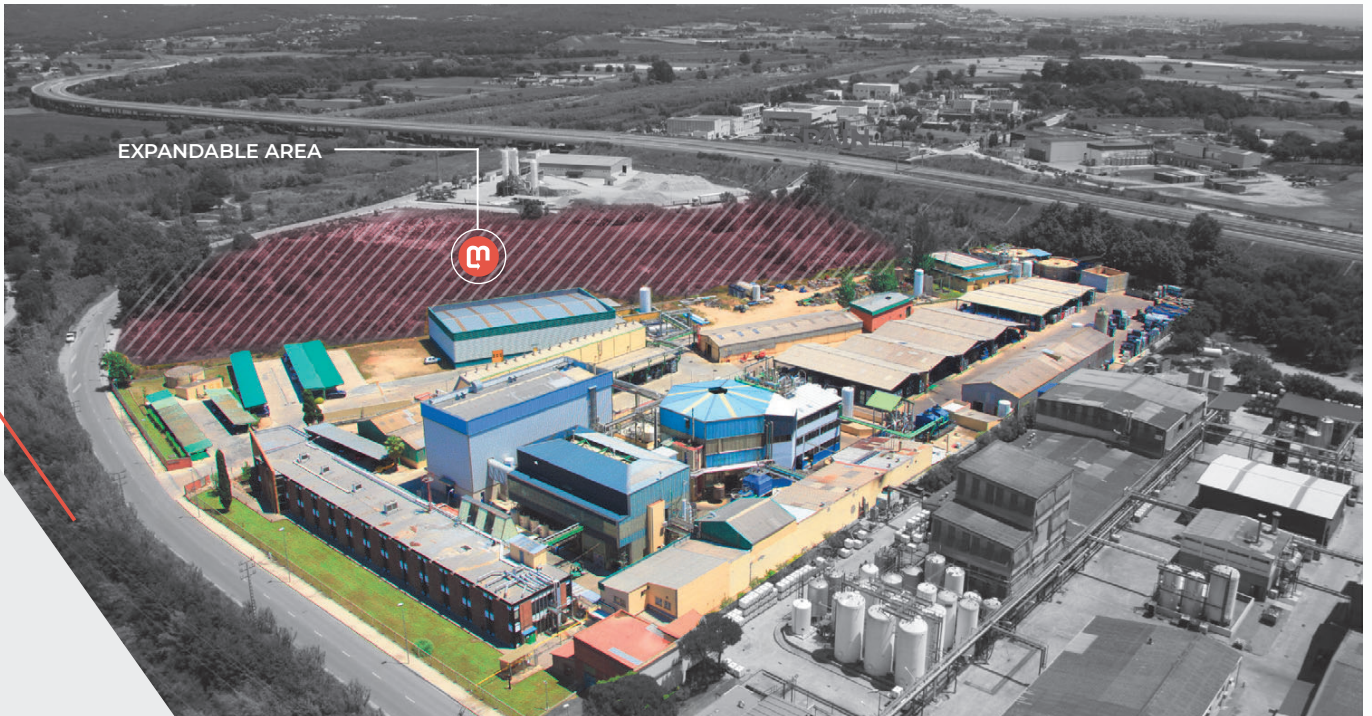
 Solvent recovery plant


 Waste water plant. Physico-chemical and tertiary treatment (MBR technology)







FACILITIES | PALAFOLLS 6.1



 Glass-lined and stainless steel multipurpose reactors

 Centrifuges and dryers

 Services including water, steam, pressurized air, nitrogen and vacuum

 Waste water plant
Physicochemical treatment





REGULATORY 07

Our expertise in **Regulatory Affairs** enables us to meet the growing standards of the world's Health Agencies and most demanding customers.

MENADIONA's **Regulatory Affairs Department** staff, has wide expertise in dealing with diverse requirement-based scenarios throughout the world, and provides on a daily basis, scientific data supporting our products safety, efficacy and quality to regulatory authorities worldwide.

- 4 Certificates of Suitability (CEPs) granted by the European Pharmacopeia
- 19 DMFs submitted to National Regulatory Authorities in 40 countries





MAIN CHEMISTRY & PROCESSES

- Expertise in Aziridine and derivatives
- Handling hazardous materials: PCl_3 , PBr_3 , Br_2 , POCl_3 , Cl_2 , Me_2SO_4 , NH_2NH_2
- Electrochemical cells
- Reaction temperatures from -80°C to 250°C
- Vacuum < 1 mbar
- Fractionated Distillations up to 15 theoretical plates
- Thin film evaporation



MAIN REACTIONS

- Bromination
- Chlorination
- Hydrogenation
- Diazotisation
- Friedel-Crafts reactions
- Methylation
- Oxidation
- Reduction
- Nitration
- Amidation
- Cyclization



EQUIPMENT

- Hastelloy, glass-lined and stainless steel multipurpose reactors
- Centrifuges
- Dryers
- Milling capacity
- Mixers
- Filling machines
- Solvent recovery plant
- Waste water treatment



MAIN STRENGTHS 09



FAST

Being a medium-sized family company allows us to be very agile in making decisions



EXPERIENCE

Manufacturer of special chemicals and APIs since 1970



CUSTOMIZATION

Able to adapt to our client requirements (packaging, specs, documentation)



MODERN FACILITIES

Regular upgrade of equipment (Production, Pilot Plant and Lab)






RELIABILITY




OTIF delivery



SUMMARY

10

-  WESTERN based manufacturer – GLOBAL reach
-  State-of-the-art technologies
-  Expertise in complex chemistry and the handling of difficult materials

-  Aziridine leadership
-  Long term commitment
-  The right partner for contract manufacturing & custom synthesis



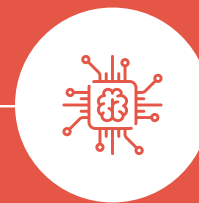
PARTNERSHIP



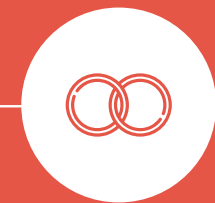
EXPERTISE



MANUFACTURER



TECHNOLOGY



COMMITMENT





“ Your trusted **European**
manufacturer in
specialty chemicals ”

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