



The gas specialist company

Grit values

Global vision

- We provide tailor-made solutions that satisfy the whole supply chain of our customers

Safety first

- For our customers, facilities and people safety is the main principle we accomplish

Continuous improvement

- The willingness to be better is the engine of everything we do

Our people is the core of our business

- Highly qualified and engaged colleagues that work towards a common purpose

Committed to sustainability

- We anticipate the future developing and implementing sustainable gas solutions that are environmentally responsible

Key figures - Grit



40
employees



Located in
Spain

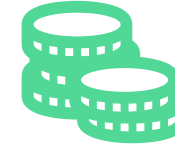


**site in Avinyó
(Barcelona)**

4
Activities:

- Aerosol
- Blowing agents
- Refrigerants
- Chemical Specialties

€37 million
in revenues for 2022



Founded in
2001



Strategic plan to
surpass **100
million €** in
revenues by 2025



Business units

Aerosol

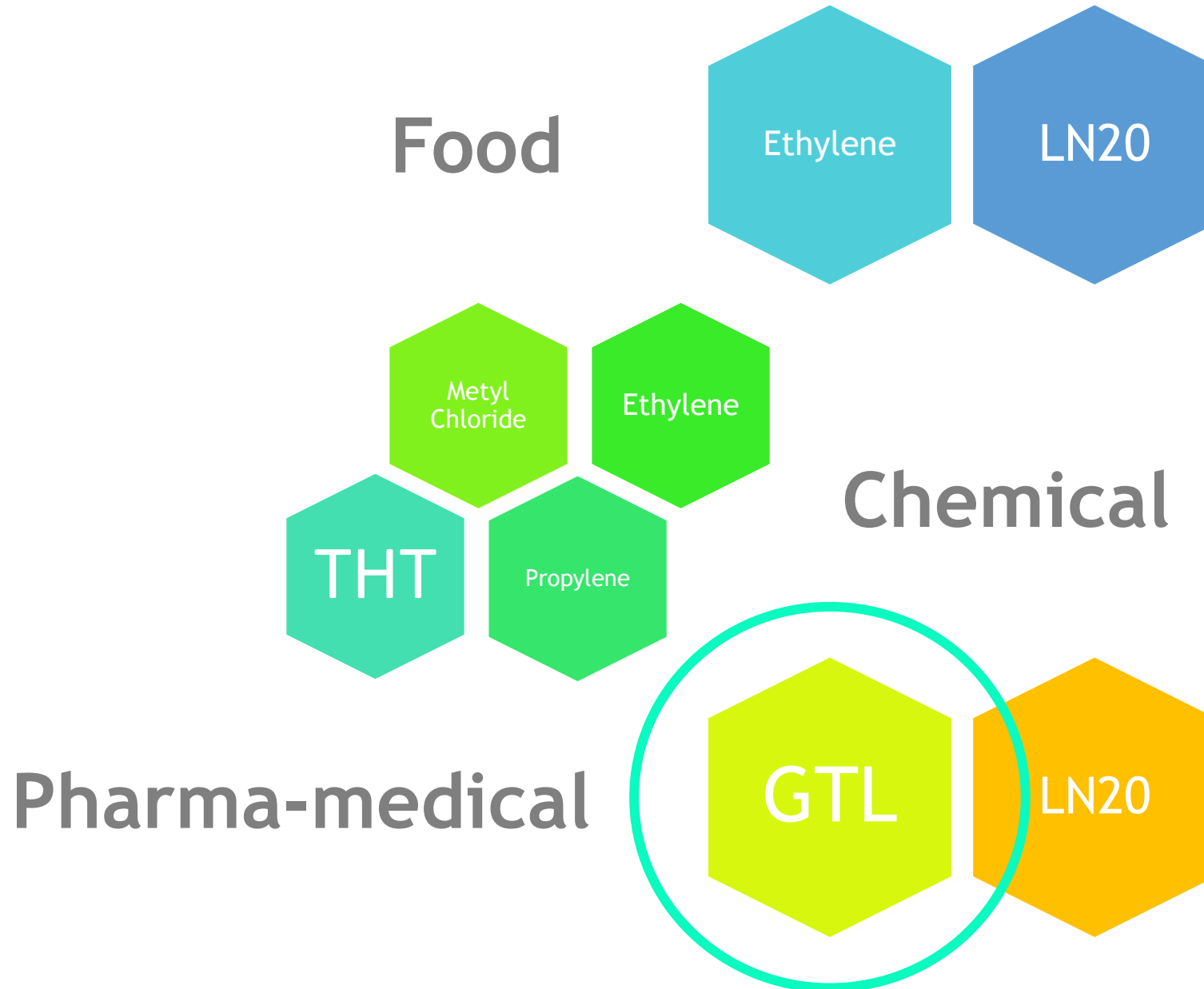
Refrigeration

Blowing Agents

Chemical
Specialties

R&D team dedicated to the 4 business units

Specialities business unit - markets



Value proposition GTL



Less Risks

- No hazardous gas handling
- No need of legalized storage by MIE-APQ-05
- No need of trained people in the hazardous gas handling
- No waste as a result of mixing gases



More Productivity

- No need of gas-use installations
- Dedicated areas for gas-use free for other added value purposes
- Non maintenance costs
- Increase reaction yield



Increased Flexibility

- Just-in-Time service
- GTL can be delivered in all the stages of the API development, from R&D to manufacturing
- Tailored mixtures of acid/basic and solvent

Our plant



GTL dedicated area

- Located in Avinyó (Barcelona, Spain)
- Remarkable investment in the last two years in the GTL facility

Driven by quality

Certificate

Standard	ISO 9001:2015
Certificate Registr. No.	0.04.04171

Certificate Holder: Gases, Research, Innovation & Technology, S.L.U. (GRIT)
 Pol. Ind. "El Punsic", parcela 8.3
 08279 Avinyo (Barcelona)
 Spain

including the locations according to annex

Scope: Filling, distribution, storage and innovation of technical gases.
 Management of residues of fluorinated gases and halogenated solvents.

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity: The certificate is valid from 2022-09-14 until 2025-09-13.
 First certification 2004

2022-08-30



TUV Rheinland Iberica Inspection,
 Certification & Testing S.A.
 Garrotxa, 10-12 – E-08820 El Prat de
 Llobregat

www.tuv.com



N° 145-95097



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Certificate

Standard	ISO 14001:2015
Certificate Registr. No.	3.00.04019

Certificate Holder: Gases, Research, Innovation & Technology, S.L.U. (GRIT SLU)
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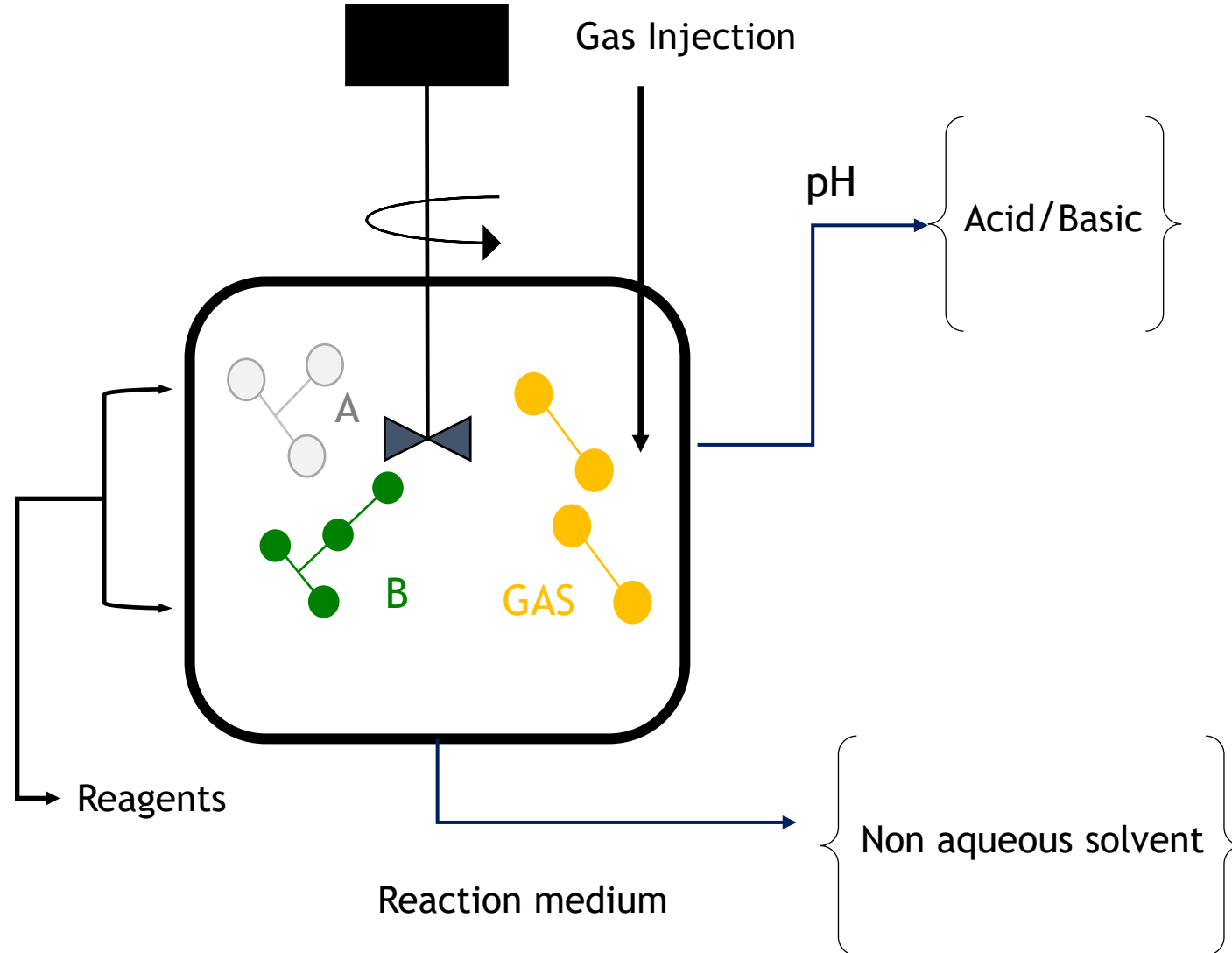
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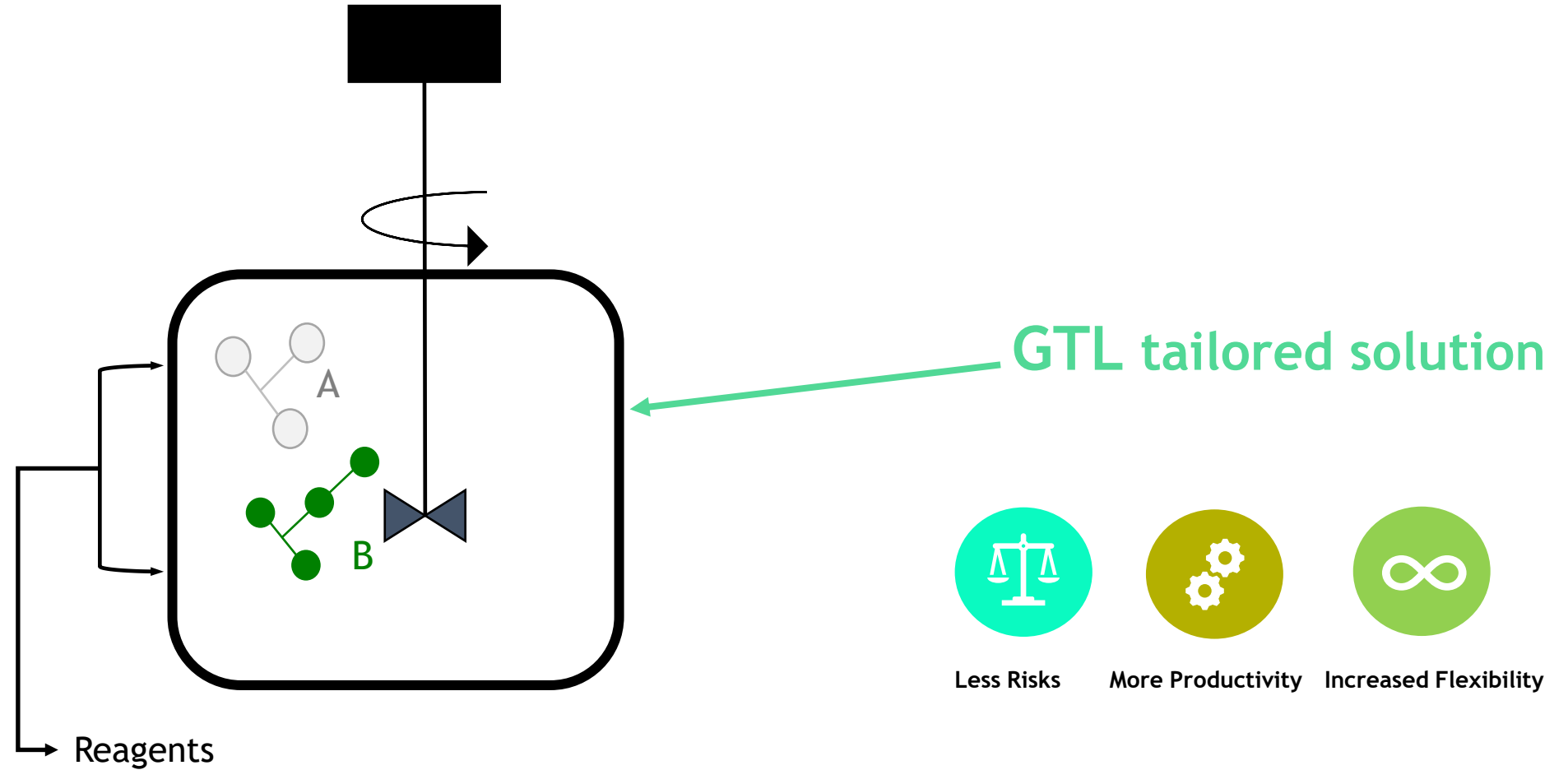
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Before Gas-to-Liquid



After Gas-to-Liquid



GTL Packaging



Special Drums of 205 L:
ADR homologation 6HA1.
Metal drums with internal
HDPE



IBC'S of 1000 L: 31HA1
ADR homologation,
ATEX certificates



Mini Stainless-steel tanks
for high pressure solutions

CoA - example



Hydrogen Chloride in Isopropyl acetate 3.5 M

Lot No.: PC17-00641/25/002
Seal No.: --
Date of analysis: 30/07/2019

UN 2924 Flammable liquid, Corrosive N.O.S.

Parameter	Specification	Units	Result	Method
Aspect	Colourless, transparent liquid	--	Pass	Visual
Density (at 20° C)	0,89-0,91	kg/l	0,89	Pycnometer
HCl Concentration	3,3-3,7	Molar	3,5	Acid-base titration
Moisture	≤ 0,05	%	0,01	Karl - Fisher

Certificate of analysis according to sales specification hydrogen chloride in isopropyl acetate 3.5M v. 2 to GRIT S.L.U.

Gabriel M.
Quality manager

Traceability and lots

Cloruro de hidrógeno en 2-propanol 6N

H225 Líquido y vapores muy inflamables.
 H290 Puede ser corrosivo para los metales.
 H314 Provoca quemaduras graves en la piel y lesiones oculares graves.
 H335 Puede irritar las vías respiratorias.
 H336 Puede provocar somnolencia o vértigo.
 P210 Mantener alejado de fuentes de calor — No fumar.
 P260 No respirar los vapores.
 P280 Utilizar indumentaria de protección y proteger el rostro.
 P303+P361+P353 EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitarse inmediatamente las prendas contaminadas. Aclararse la piel con agua o ducharse.
 P305+P351+P338 EN CASO DE CONTACTO CON LOS OJOS: Aclarar cuidadosamente con agua durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando.
 P310 Llamar inmediatamente a un CENTRO DE INFORMACION TOXICOLOGICA o a un médico.
 P370+P378 En caso de incendio, utilizar agua para apagarlo.

Contiene: propan-2-ol y cloruro de hidrógeno

Lote: **PC19-00709/40/003**
 GASES:RESEARCH, INNOVATION & TECHNOLOGY SLU
 P.I. El Puncic parcela 8.3 08279 Avinyó BCN (Spain)
 Telf: +34 / 93 272 14 00 Telf Emergencia: 34 / 630 21 59 10

UN 2924
Peso Neto: 165 kg

PELIGRO


GRIT
 gases research innovation
 & technology

Purchase order
of the solvent

Production
week

Correlative
number

- Each container has a single batch and is a single batch of manufacturing
- The original documentation of each delivery (CoA raw materials, production order, packing slips and COA of each lot) are stored for 5 years

Standard homologation process



Our tailor-made gas mixtures

Gas	Solvent	Concentration (% weight)
HCl	CPME	12
HCl	EtAc	8
HCl	EtOH	29
HCl	IPA	24
HCl	IPA	18
HCl	IPA	15
HCl	IPA	13
HCl	IPA	10
HCl	1,4-dioxane	14
HCl	IProAc	14
HCl	MeOH	6
HCl	MeOH	14
MMA	EtOH	33
MMA	MeOH	33
MMA	MeOH	8,5
NH3	MEG	15
NH3	MeOH	15

All gas-to-liquid solutions are tailor-made to our customers production needs in terms of components and solution concentration



THANK YOU

**GRACIAS GRÀCIES TACK DANKE
OBRIGADO HVALA TAK GRAZIE MERCI
KIITOS DÍK PALDIES KÖSZÖNÖM**