



/FINE & SPECIALTY CHEMICALS

IN THE PURSUIT OF PROGRESS

FINE & SPECIALTY CHEMICALS

Progress isn't made by doing things the way they have always been done.

At heart we are chemists, driven by an insatiable curiosity to learn more. To do things differently. It's our deep understanding of chemistry that unlocks the best solutions for our clients. Our chemicals division offers fine chemicals, intermediates and additives for a diverse range of industries as well as bespoke product development and sourcing services.



SUPPLY CHAIN SOLUTIONS

Our supply chain and logistics expertise in documentation; customs; transport; and warehousing allow us to deliver product swiftly and on time. Our in-house expertise allows our clients to navigate today's uncertain and volatile supply chains with maximum information and minimum disruption.



IN-HOUSE TECHNICAL EXCELLENCE

We have a team of technical experts and our own laboratory infrastructure, tailoring solutions for our clients and adapting products to new addressable markets. Tell us your desired reaction and use our expertise to provide the best solution.



CUSTOMER CENTRICITY

We pride ourselves on responsiveness, communication, and aftersales service. We are easy to deal with, providing a frictionless trading experience for our customers.



AUDITED & APPROVED SUPPLIERS

We deliver our customers supplier security through our long-term relationships with audited and approved suppliers.



INDUSTRIES

Pharmaceuticals

Plastics

Cosmetics

Automotive

Industrial

Agriculture

Food & Nutrition

Oil & Gas

Paper

Textiles



APPLICATIONS

Reduction Agents

Resins & Rubbers

Surface Treatments

Polymers

Solvents & Dyes

Lubricants

Flavours & Fragrance

Water Treatment

Fine Chemicals Synthesis

Performance Chemicals



/PRODUCT RANGE

Reducing Agents

CATEGORY	PRODUCT	CAS
Reducing Agents	Lithium borohydride	16949-15-8
	Potassium borohydride	13762-51-1
	Sodium borohydride	16940-66-2
	Sodium cyano-borohydride	25895-60-7
	Sodium triacetoxy-borohydride (STAB 95%)	56553-60-7
	Synhydrid®	22722-98-1
	Piperhydride®	71128-61-5

Acids & Derivatives

CATEGORY	PRODUCT	CAS
Acetic Acids & Derivatives	Trifluoroacetic acid	76-05-1
	Ethyl trifluoroacetate	383-63-1
	Monochloroacetic acid	79-11-8
	Sodium chloroacetate	3926-62-3
	Trisodium nitriloacetate	5064-31-3
Acyl chlorides	Benzoyl chloride	98-88-4
	4-Methoxybenzoyl chloride	100-07-2
	Methanesulfonyl chloride	124-63-0
	Dimethylcarbamoyl chloride (DMCC)	79-44-7
Aldehydes	2-chlorobenzaldehyde	89-98-5
	4-chlorobenzaldehyde	104-88-1
	4-methoxybenzaldehyde	123-11-5
	3-nitrobenzaldehyde	99-61-6
	2-nitrobenzaldehyde	552-89-6
Anhydrides	Phtalic anhydride	85-44-9
	Succinic anhydride	108-30-5
	Maleic anhydride	108-31-6
Benzoic Acids	Trifluoromethanesulfonic anhydride	358-23-6
	m-Nitrobenzoic acid	121-92-6
	p-Nitrobenzoic acid	62-23-7

REACH Registered

CATEGORY	PRODUCT	CAS
Resolution Agents (tartaric acids)	Di-p-toluoyl-L-tartaric acid	32634-66-5
	Di-p-toluoyl-D-tartaric acid	32634-68-7
Sulfonic Acids and Sulfonates	Methanesulfonic acid	75-75-2
	Trifluoromethanesulfonic acid	1493-13-6
	5-Sulfosalicylic acid	97-05-2
	Sodium m-nitrobenzenesulfonic acid	127-68-4
	Potassium methanedisulfonate	6291-65-2
	Sodium methanedisulfonate	5799-70-2
	3-(1-Pyridinio)-1-propanesulfonate sol. 35% in water	15471-17-7

Pyridines and Piperidines

CATEGORY	PRODUCT	CAS
Pyridines and piperidines	2-amino-3-pyridinol	16867-03-1
	4-Chloro-1-methylpiperidine*HCl	5382-23-0
	1-Methyl-2-(2-hydroxyethyl piperidine)	533-15-3
	2-Pyridine-carboxyaldehyde	1121-60-4
	4-Dimethylaminopyridine (DMAP)	1122-58-3
	2-Vinylpyridine	100-69-6

Amines and Amino Compounds

CATEGORY	PRODUCT	CAS
Anilines	Aniline	62-53-3
	N,N-diethylaniline	91-66-7
	N,N-dimethylaniline	121-69-7
	p-Anisidine	104-94-9
Quaternary ammonium compounds	Tetramethylammonium chloride	75-57-0
	Triethylbenzylammonium chloride	56-37-1
Hydroxylamines	Hydroxylamine hydrochloride	5470-11-1
	Bis (hydroxylammonium sulphate)	10039-54-0

Phenol and Derivates

CATEGORY	PRODUCT	CAS
Phenol and Derivates	2-Chlorophenol	95-57-8
	2-Aminophenol	95-55-6
	3-Aminophenol	591-27-5
	4-Aminophenol	123-30-8

REACH Registered

CATEGORY	PRODUCT	CAS
Phenol and Derivates	2-Methyl resorcinol	608-25-3
	1-Naphthol	90-15-3
	2-Naphthol	135-19-3
	Pyrogallol (1,2,3-Trihydroxybenzene)	87-66-1
	Resorcinol (1,3-Dihydroxybenzene)	108-46-3

Iodo Derivates

CATEGORY	PRODUCT	CAS
Iodo derivates	1-Bromo-2-iodobenzene	583-55-1
	Chloriodomethane	593-71-5
	Diiodomethane	75-11-6
	Iodoethane	75-03-6
	2-Iodopropane	75-30-9
	N-Iodosuccinimide	516-12-1
	Iodobenzene	591-50-4
	Stabilized 2-Iodoxybenzoic acid	61717-82-6
	(Diacetoxy)iodobenzene	3240-34-4
	Bis(trifluoroacetoxy)iodo]benzene	2712-78-9
	Trimethyl sulfonium iodide	2181-42-2
	Trimethyl sulfoxonium iodide	1774-47-6

Inorganic Compounds

CATEGORY	PRODUCT	CAS
Inorganic Compounds	Aluminium chlorides anhydrous	7446-70-0
	Potassium iodide	7681-11-0
	Sodium iodide	7681-82-5
	Sodium amide	7782-92-5
	Sodium bromate	7789-38-0
	Sodium hydride	7646-69-7
	Sodium metaperiodate	7790-28-5
	Zinc oxide (34% min.)	1314-13-2
	Sodium tert-butoxide	865-48-5
	Sodium metal	7440-23-5

REACH Registered

Sorbyl Chemistry

CATEGORY	PRODUCT	CAS
Sorbyl Chemistry	Sorbyl Alcohol	17102-64-6
	Sorbyl Acetate	57006-69-6

Coupling Reagents

CATEGORY	PRODUCT	CAS
Coupling reagents	CDMT (2-Chloro-4,6-dimethoxy-1,3,5-triazine)	3140-73-6
	DMTMM (4-(4,6-Dimethoxy-1,3,5-triazin-2-yl)-4-methyl-morpholinium chloride)	3945-69-5

Miscellaneous

CATEGORY	PRODUCT	CAS
Miscellaneous	Dilactamate and Dilactamate S	64663-20-3
	Ambroxide	6790-58-5
	Glycerol monostearate	123-94-4
	Phenylacetonitrile	140-29-4
	Nitrobenzene	98-95-3
	1-Chloro-2,3-propanediol	96-24-2
	Dithiothreitol	3483-12-3
	Trimedlure	12002-53-8
	Paraformaldehyde (CH ₂ O)	30525-89-4
	L-Lysine sol. 50%	56-87-1
	Trichloromethyl Silane	75-79-6

ThioChemicals

CATEGORY	PRODUCT	CAS
ThioChemicals	Dimethyl disulfide (DMDS)	624-92-0

REACH Registered

PRODUCT EXPERTS

SYNHYDRID[®]

PIPERHYDRIDE[®]

REDUCTION STEP
OPTIMISATION

SODIUM
BOROHYDRIDE

SORBYL
CHEMISTRY

DILACTAMATE &
DILACTAMATE S

REDUCING AGENTS

100/1.25
160/0

CAS: 22722-98-1

SYNHYDRID[®]

Replace dangerous reagents such as DIBAL and LAH with Synhydrid[®]. Discover the safer alternative for reduction reactions. Request a sample today.



HIGHER YIELD

The higher grade of Synhydrid[®] gives it a superior yield to its competitor products.



EXTREMELY STABLE

Synhydrid[®] is stable making it the safe choice for people and manufacturing equipment.



EXPANDING SUPPLY

A newly expanded, dual plant manufacturing facility means our supply capacities are expanding satisfying our customers with continuous product supply and no disruptions.



MODIFICATION & DEVELOPMENT

Our expertise includes a team of technical experts to support your product modification and development.

KEY REACTIONS

Reduction Reactions

Synhydrid® performs reduction reactions, transforming functional groups by means of hydride addition. It can reduce esters and acids to alcohols or aldehydes, ketones to alcohols, amides and nitriles to amines, lactones to diols or lactols.

A Versatile Initiator

Synhydrid® is also a versatile initiator in anionic polymerisation of Caprolactam. It can also be used to initiate Grignard reactions smoothly and effectively.

To Alcohols

ESTER \longrightarrow ALCOHOL

ALDEHYDE \longrightarrow ALCOHOL

ACID CHLORIDE \longrightarrow ALCOHOL

KETONE \longrightarrow ALCOHOL

ANHYDRIDE \longrightarrow ALCOHOL

To Aldehydes

ESTER \longrightarrow ALDEHYDE

NITRILE \longrightarrow ALDEHYDE

ACID CHLORIDE \longrightarrow ALDEHYDE

To Amines

NITRILE \longrightarrow AMINE

AMIDE \longrightarrow AMINE

IMINE \longrightarrow AMINE

AN INTRODUCTION TO SYNHYDRID® APIS

EXAMPLE API	APPLICATION
AGOMELATINE	ANTIDEPRESSANT
ALFENTANIL	ANALGESIC
APREPITANT	ANTI VOMITING
ARTENIMOL	ANTI MALARIA
ASENAPINE	ANTIPSYCHOTIC
ATAZANAVIR	ANTIRETROVIRAL
ATOMOXETINE	ADHD
ATORVASTATIN	ANTI CHOLESTEROL

and many more...

This is just a snapshot of our full API selection. Get in touch today to find out about our full range.

Alongside our current APIs, we're also working hand-in-hand with customers and partners to expand the Synhydrid® API universe.

WORK WITH US

In-house R&D and a team of PHD qualified chemists across two laboratories, dedicated to supporting Synhydrid® developments

Our fully integrated laboratory infrastructure allows for product optimisation at any stage of production.

Work with us to find out how we can deliver you desired reduction reactions.



CAS: 22722-98-1

REDUCING AGENTS

SYNHYDRID[®]

Clear Liquid

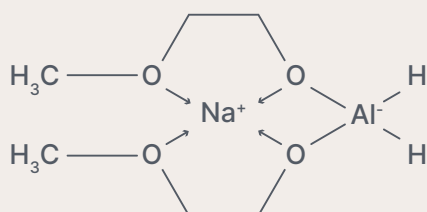
PRODUCT DESCRIPTION

Chemical Name	Sodium bis(2-methoxyethoxy) aluminium hydride in toluene
CAS Number	22722-98-1
Linear Formula	$\text{NaAlH}_2(\text{OCH}_2\text{CH}_2\text{OCH}_3)_2$
Molecular Weight	202.16

SPECIFICATION

Appearance	Liquid
Colour	Clear
Purity	70% min
Density (20°C)	1,03 g/cm ³

MOLECULAR STRUCTURE



APPLICATIONS

- Highly versatile organometallic reducing agent best known for a number of classic transformations and for its ability to replace more reactive and hazardous chemicals such as Lithium Aluminium Hydride (LAH).

PACKAGING

- 200g lab samples;
- 15kg; 25kg; 50kg and
- 200kg steel drums.
- 1000kg returnable pressurized containers.

STORAGE

- 24 months in original unopened packaging, at temperatures below +45 °C.

SDS:

regs@chematek.com

Sales Enquiries

synhydrid@chematek.com

www.chematek.com

PIPERHYDRIDE®

Piperhydride® focuses on selective reductions based on modification of the ligand to replace reagents such as DIBAL and TBLAH. With customers and research institutions alike, Chematek are developing new molecule pathways to meet specific demands.



SAFETY

Very stable over temperature extremes and long time periods.



R&D FACILITIES

Dedicated laboratory to assist product development.



YIELD

Highly selective with no side reactions.



COST

Reduce safety and energy budgets.

PIPERHYDRIDE[®]

Colourless Liquid

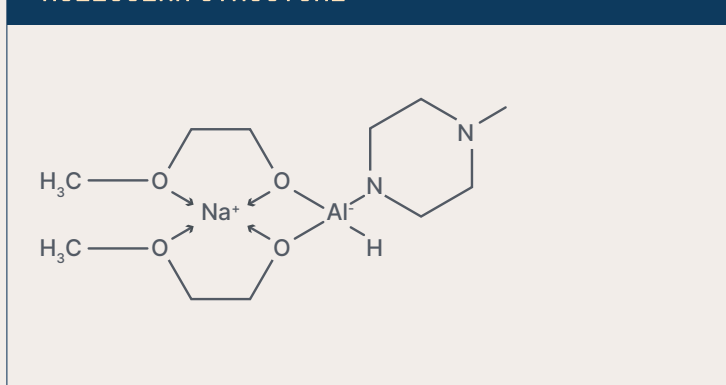
PRODUCT DESCRIPTION

Chemical Name	Solution of sodium bis(2-methoxyethoxy)(4-methylpiperazin-1-yl)aluminium hydride and sodium bis(2-methoxyethoxy)bis(4-methylpiperazin-1-yl)aluminate in toluene
CAS Number	71128-61-5

SPECIFICATION

Appearance	Liquid
Colour	Colourless
Water Solubility	Reacts violently
Content of Active Ingredient	(sodium bis(2-methoxyethoxy)(4-methylpiperazin-1-yl)aluminium hydride: min 50% wt (by gas-volumetry)

MOLECULAR STRUCTURE



APPLICATIONS

- Versatile and selective reducing agent for partial reductions.

PACKAGING

- 200g lab samples;
- 15kg; 25kg; 50kg and
- 200kg steel drums.
- 1000kg returnable pressurized containers.

STORAGE

- 6 months, at temperatures below +40 °C.

SAFETY

- UN Number: 3399
- ADR Class: 4.3 (3)
- Packaging Group: I

POTASSIUM BOROHYDRIDE

Potassium borohydride is used in synthesis as a selective reducing agent.

A very selective reducing agent, it will only reduce ketones or aldehydes to their corresponding alcohols.

It is used to synthesize chloramphenicol, vitamin A, thiopenicol, atropine, and scopolamine. It differs from other borohydrides as it is insoluble in ethanol, ether, and THF.

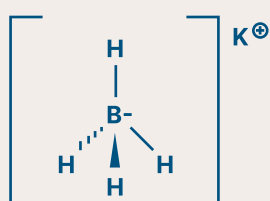
PRODUCT DESCRIPTION

Commercial Name	Potassium Borohydride
Chemical Name	Potassium Tetrahydroborate
Reach Registration	01-2120769730-49-0001
CAS Number	13762-51-1
Formula	KBH_4
M.W.	53.94
Un Number	1870
ADR Class	4.3
Packing Group	I

SPECIFICATION

Assay	97% min.
Appearance	White Crystalline Powder
Moisture	0.4% max

MOLECULAR STRUCTURE



PACKAGING

- 20kg iron drum within
- 10kg bags inside

STORAGE

- At room temperature
- Avoid any contact with water

SODIUM BOROHYDRIDE

Sodium Borohydride is a very strong reducing agent used in organic and biochemical reactions.

Nanocrystalline superlattices in gold colloid solution have been prepared by ligand-induction using AuCl_3 reduced with sodium borohydride.

Nucleophilic addition of hydride ion from sodium borohydride is an inexpensive alternative method for the Baylis-Hillman reaction to form [E]- α -methylcinnamic acids.

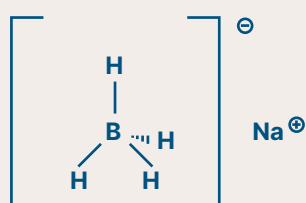
PRODUCT DESCRIPTION

Commercial Name	Sodium Borohydride Powder
Chemical Name	Sodium Tetrahydroborate
Reach Registration	01-2119485016-39-0004
CAS Number	16940-66-2
Formula	NaBH_4
M.W.	37.83
Un Number	1426
ADR Class	4.3
Packing Group	I

SPECIFICATION

Assay	98% min.
Appearance	White Crystalline Powder*
Moisture	0.3% max

MOLECULAR STRUCTURE



PACKAGING

- 25kg Iron Drum

STORAGE

- At room temperature
- Avoid any contact with water

*Also available in granular form or in aqueous caustic solution (12%, 20% or tailor-made)

REDUCTION STEP OPTIMISATION

CUSTOMISED REDUCTION STEP OPTIMISATION SERVICES

Identify, develop & use the most effective reducing agent for your needs.

Our integrated service focuses on optimising your reduction step; and supplying a range of reducing agents either selected or developed explicitly for that step.

Use our team of specialists and extensive reactions database and apply over 40 years of learned experiences to your project.

EXPERIENCE THE ADVANTAGES OF:



SAFETY

Replace hazardous reducing agents with safer options.



INFORMATION

Use our knowledge and experience to fast-track results.



SAVINGS

Save money with increased safety and selectivity.



EFFICIENCY

Save time and use our experience.



ACCESS

Locally stocked products in all continents.

SORBYL ACETATE

>98.0% Transparent Liquid

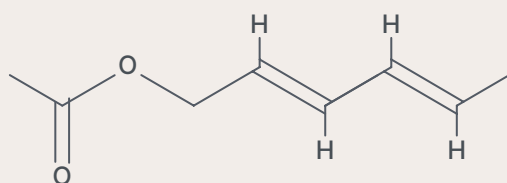
PRODUCT DESCRIPTION

Chemical Name	(2E,4E)-hexa-2,4-dien-1-yl acetate, 2,4-Hexadienyl acetate
CAS Number	57006-69-6
Linear Formula	C ₈ H ₁₂ O ₂
Molecular Weight	140.18

SPECIFICATION

Appearance	Liquid
Colour	Clear
Purity (GC Area%)	>98.0%
α-Tocopherol	@ 0.10%

MOLECULAR STRUCTURE



APPLICATIONS

- Use as an intermediate in strictly controlled conditions (SCC)

PACKAGING

- Iron drum 5 Kg - 25 Kg

SDS:

regs@chematek.com

Sales Enquiries

synhydrid@chematek.com

www.chematek.com

SORBYL ALCOHOL

>98.0% White Solid

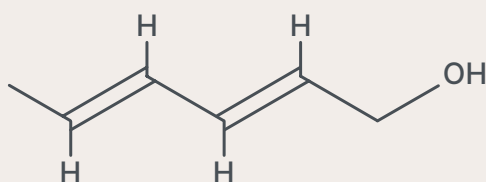
PRODUCT DESCRIPTION

Chemical Name	(E,E)-hexa-2,4-dien-1-ol , 2,4-Hexadien-1-ol
CAS Number	17102-64-6
Linear Formula	C ₆ H ₁₀ O
Molecular Weight	98.14

SPECIFICATION

Appearance	Crystal
Colour	White
Purity (GC Area%)	>98.0%
α-Tocopherol	@ 0.10%

MOLECULAR STRUCTURE



APPLICATIONS

- Used as a synthetic intermediate for F&F, Pheromones, Agrochemicals.

PACKAGING

- Iron drum: 5kg - 25kg and 200kg

SDS:

regs@chematek.com

Sales Enquiries

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DILACTAMATE

80.0% Viscous Liquid

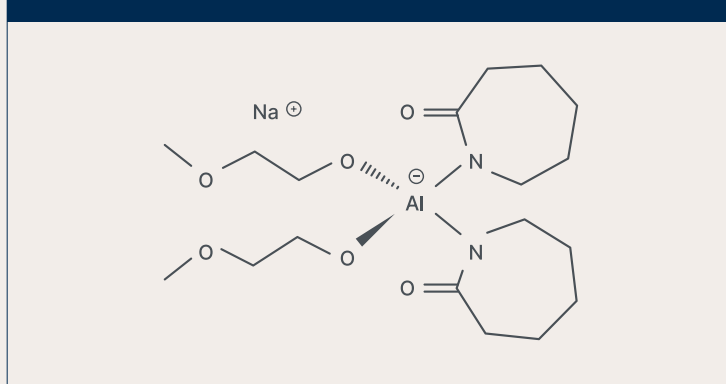
PRODUCT DESCRIPTION

Chemical Name	Sodium dicaprolactamato-bis(2-methoxyethoxy) aluminate in toluene
CAS Number	64663-20-3

SPECIFICATION

Appearance	Viscous Liquid
Colour	Light Yellow
Freezing Point	-20°C
Flash Point	22.5°C
Decomposition Point	225°C
Active Compound Content	min 80.0%
Toluene	15%
6-caprolactam	4%

MOLECULAR STRUCTURE



APPLICATIONS

- Used as initiator of anionic polymerisation and copolymerisation of lactams.

PACKAGING

- Iron drum: 50Kg

SDS:

regs@chematek.com

Sales Enquiries

synhydrid@chematek.com

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DILACTAMATE S

80.0% Viscous Liquid

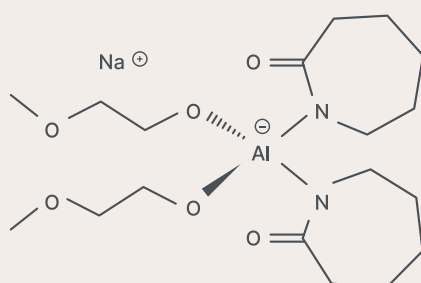
PRODUCT DESCRIPTION

Chemical Name	Sodium dicaprolactamato-bis(2-methoxyethoxy)aluminumate in toluene
CAS Number	64663-20-3

SPECIFICATION

Appearance	Viscous Liquid
Colour	Light Yellow
Freezing Point	-20°C
Flash Point	22.5°C
Decomposition Point	225°C
Active Compound Content	min 80.0%
Toluene	15%
6-caprolactam	4%
Magnesium Caprolactamate	0.2%

MOLECULAR STRUCTURE



APPLICATIONS

- Used as initiator of anionic polymerisation and copolymerisation of lactams.

PACKAGING

- Iron drum: 50Kg

SDS:

regs@chematek.com

Sales Enquiries

synhydrid@chematek.com

www.chematek.com

WELCOME TO CHEMATEK

FULLY INTEGRATED INDUSTRIAL SERVICES DISTRIBUTION

Chematek is a technically integrated product distributor. We understand the needs of our customers; work with them to source and develop specific product solutions; and support them to establish the product in the market.



FINE CHEMICALS

Safe, Reliable & Secure

Experts in distributing, customising and developing a broad range of fine chemical products.



PETROCHEMICALS

European Innovation

Developed with Europe's most advanced refineries, we offer a comprehensive range of petrochemical products and in-house services.



EPC

Tailor-Made Solutions

Tailored solutions in water treatment technology and the Oil & Gas sector delivered by our expert team of multidisciplinary engineers and operators.

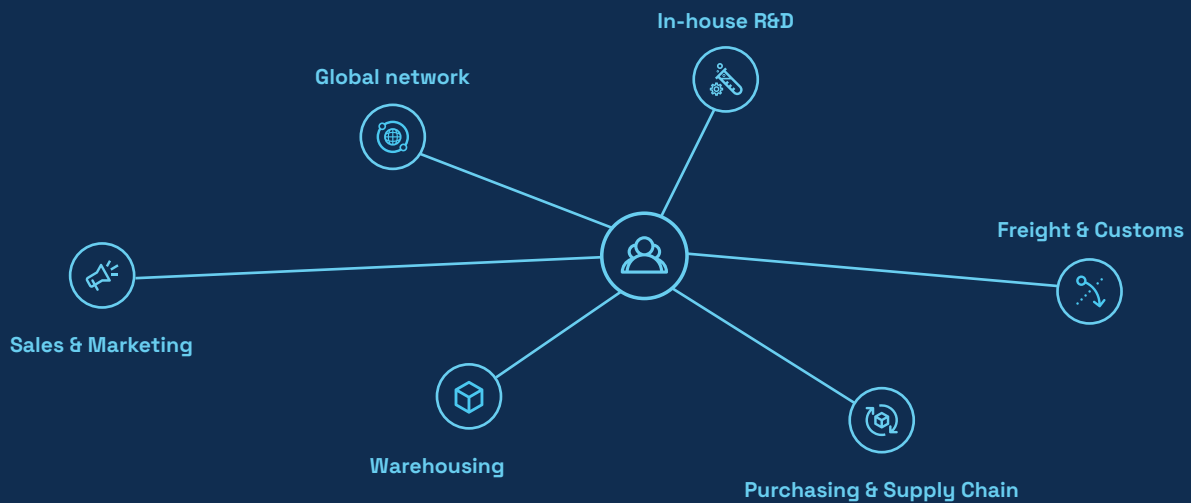


LUBRICANTS

Performance Meets Precision

The latest in international design technology, discover our range of Italian lubricants made with performance and precision in mind.

THE CHEMATEK DIFFERENCE



Global Network

Over 4 decades we have established a powerful global network. Our inter-related product divisions allow us to transfer knowledge and best practice spanning multiple sectors to the benefit of our customers.

In-house R&D

An in-house laboratory run by a team of PHD chemists. We work with customers and suppliers on product development, product testing, sampling and other analytical services.

Freight & Customs

We have a dedicated group of specialists to manage our international trade, logistics and importing. We ensure product moves seamlessly from A to B, using our global knowledge to minimize unwanted costs and costly delays.

Purchasing & Supply Chain

Our strength is a function of our global network; the early establishment of offices in India and China; and the expertise of our staff. We find it easy to navigate complex landscapes to find new suppliers; or take suppliers into new markets.

Warehousing

A state-of-the-art warehouse in Milan is complemented by a network of strategically located warehouses across the globe. We know that immediate access to key products is extremely valuable to our customers.

Sales & Marketing

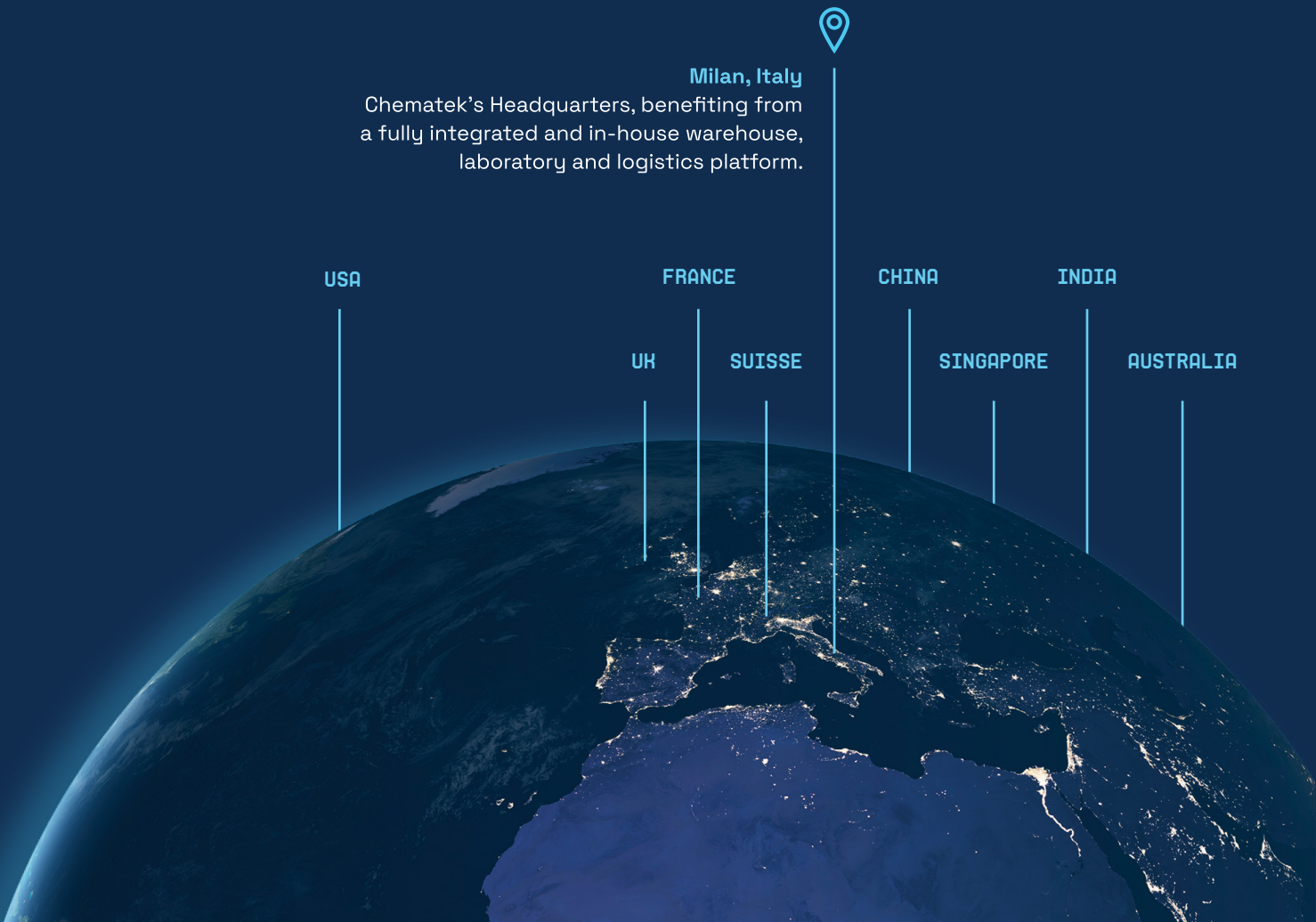
Using digitally advanced techniques and expertise we partner with our suppliers and customers to help develop new market opportunities.

A MULTI-LAYERED GLOBAL NETWORK, WORKING TO YOUR ADVANTAGE

Chematek uses its geographic diversity and spread of product sectors to give clients immediate access to diverse, cross-divisional knowledge and deep functional expertise.

We are powerful, quick and agile. Our expertise spans the breadth of the entire supply chain. We find, adapt and develop products for our markets, establish distribution systems and work with our in-market partners to successfully create ongoing demand for the product.

When it comes to our commitment to technical excellence and unrelenting drive for progression and discovery, you could argue little has changed since Giovanni Papandrea founded Chematek in 1978. We are proud to say our mantra is the same today as it was more than 40 years ago: How can we help our clients do things better?



CORPORATE GOVERNANCE

Doing Things The Right Way

Our word is our bond and we place utmost importance on our corporate governance structures. Our business is set up with the systems and processes to make sure that we comply with the strictest of regulatory frameworks.

Integrity is at the heart of our core values. Our people believe in doing business the right way – so we can build and sustain lasting relationships with our customers and suppliers to help each other develop profitable futures.



OUR HISTORY



1980

Chematek founded with Fine Chemical Division.

1990

Collaboration with ENI on Fuel Additives begins.

2005

Chematek opens in China as Topstar International.

2010

ChemProgress (Italy) is purchased.



2015

Chematek opens in India as Papa Fine Chemicals.

2022

Chematek Suisse launches, providing enhanced service and support to customers.

1994

Refinery Services Group is launched.

2006

Chematek France opens, with a focus on Synhydrid®.

2011

Verus motor oil lubricant launched in China.

2011

New Milan HQ Warehouse and chemical laboratory to produce and test products.

2014

Chematek Latam opens in Latin America, based in Panama City.

2017

Chematek Australia is born as exclusive Eni distributor for the Australian continent.

2022

Chematek Inc launches, establishing Chematek as a specialist chemical supplier in North America.



/GET IN TOUCH

For more information on any of Chematek's Fine and Specialty Chemicals range, including Reducing Agents, please contact us today.

REDUCING AGENTS & FINE CHEMICALS

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