

CHEMISTRY THAT MATTERS™

سابک  
sabic

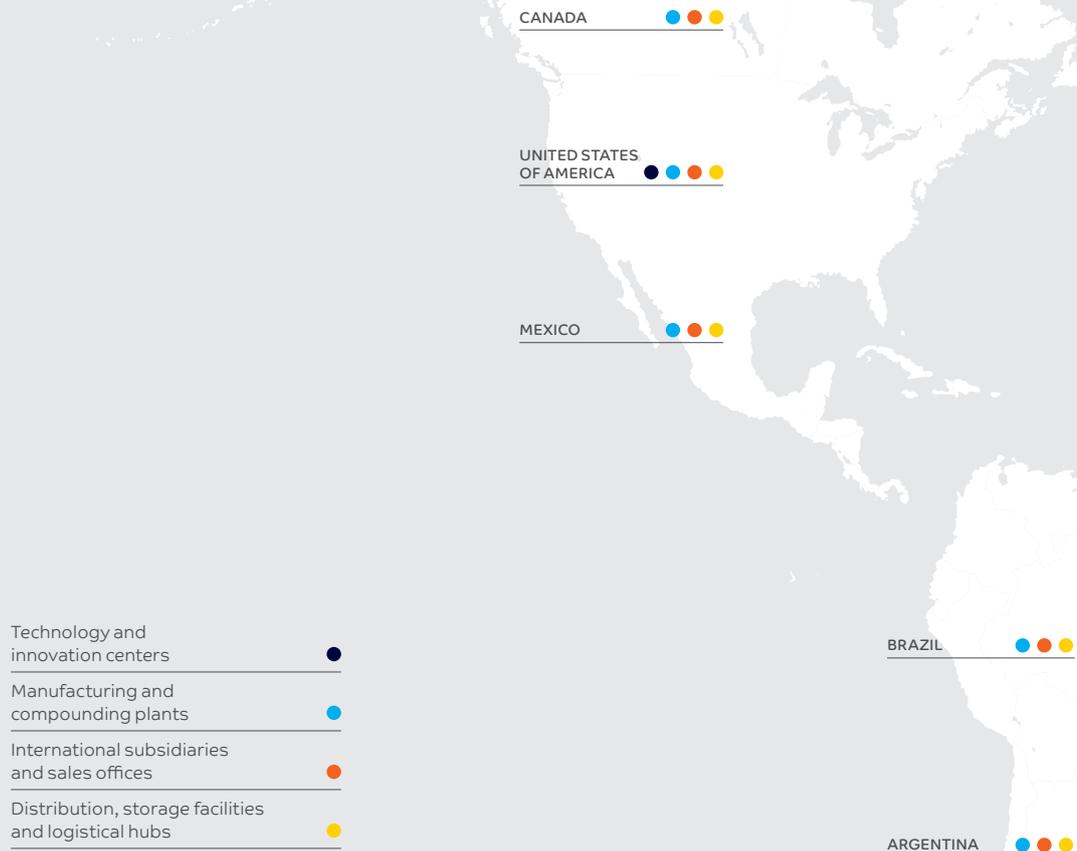
# CHEMICALS

BUSINESS OVERVIEW



# AT A GLANCE

SABIC, headquartered in Riyadh, Saudi Arabia, employs more than 32,000 people in around 50 countries, working together to make the building blocks of the modern world ever better, ever more efficiently, and ever more sustainably.



NET INCOME  
(US\$)

0.35bln

ASSETS  
(US\$)

78.5bln

SALES  
(US\$)

37.7bln

PRODUCTION  
(METRIC TONS)

53.5 mln



**AMERICAS**  
HEADQUARTERS  
Houston, USA



**EUROPE**  
HEADQUARTERS  
Amsterdam  
The Netherlands



**MIDDLE EAST  
AND AFRICA**  
HEADQUARTERS  
(GLOBAL)  
Riyadh, Saudi Arabia



**ASIA**  
GREATER CHINA  
HEADQUARTERS  
Shanghai, China  
  
REST-OF-ASIA  
HEADQUARTERS  
Singapore



**31,000+**

Employees around the world



**11,000**

Patent portfolio



**A+/A1**

One of the highest standalone credit ratings



**Top 2**

Chemical brand value

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# STRATEGIC INDUSTRIES WE SERVE



## AGRI-NUTRIENTS

Our portfolio of high quality agri-nutrients play a vital role in helping to secure adequate global food supply and make it possible to produce more food from less land.



## CLEAN ENERGY

SABIC's specialty and polymer products can help create sustainable renewable-energy solutions for the future.



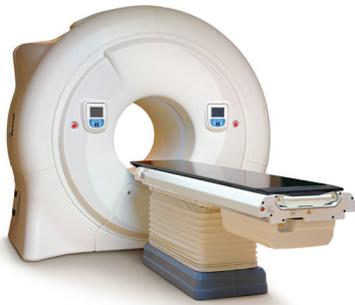
## ELECTRICAL & ELECTRONICS

Manufacturers need to make products in a cost-effective manner, yet meet consumers' expectations for style, ease of use and sustainability. Our materials are the foundation for the next generation of electronic devices.



## CONSTRUCTION

We provide products to architects and builders who seek solutions to satisfy public demand for environmentally responsible structures while providing design freedom.



## MEDICAL DEVICES

We help customers successfully address the challenges facing the industry by providing advanced technologies, a broad product portfolio, and a healthcare policy.



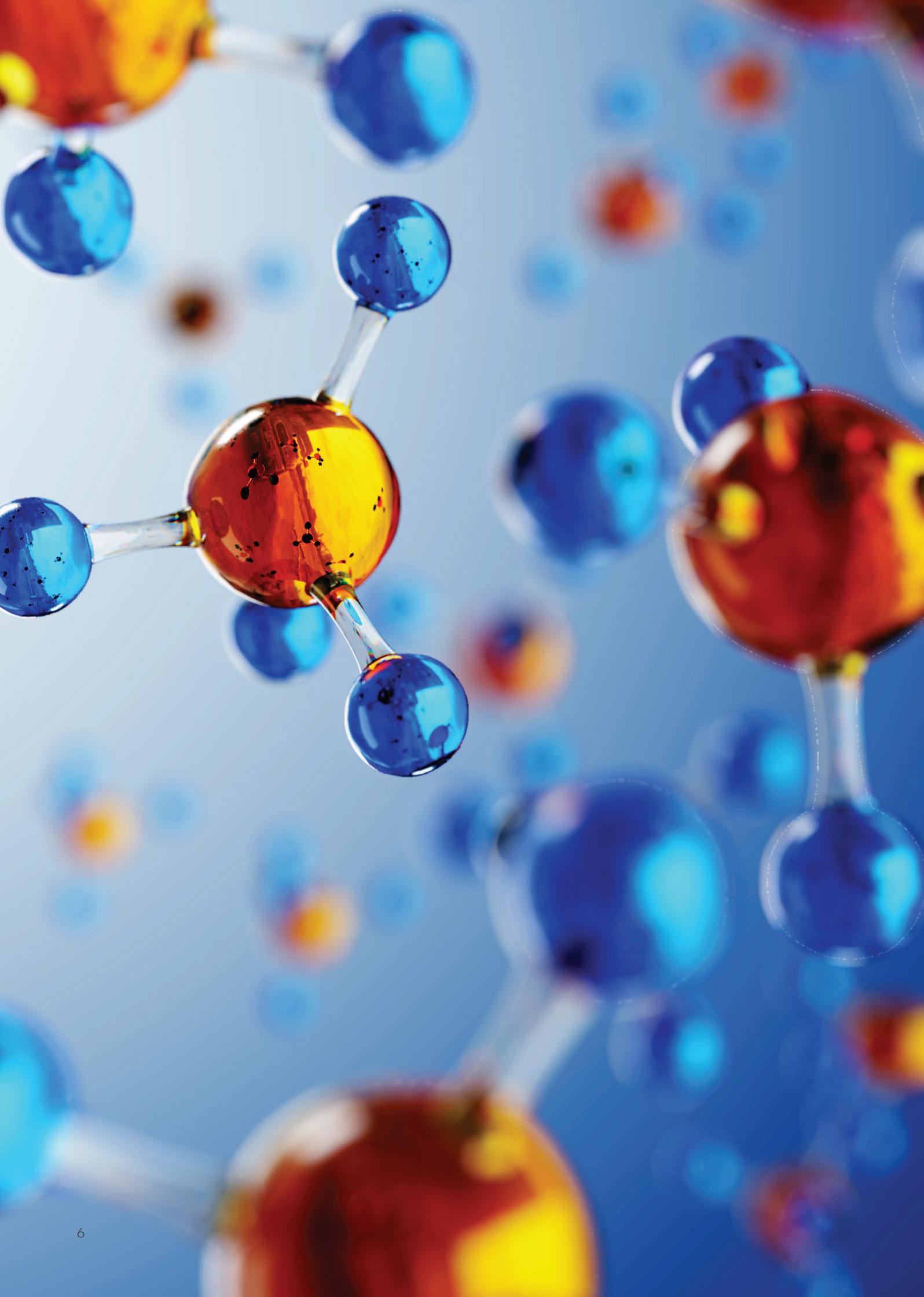
## PACKAGING

SABIC polymers seek to help food and drink producers meet their goals while still providing sustainable benefits like lightweighting and environmentally-focused initiatives.



## TRANSPORTATION

Automobiles, aircraft, rail interiors, heavy-duty trucks and other vehicles require new approaches to meet ever-rising requirements. We put our material, design and technical expertise to work to help OEMs meet this challenge and drive innovation to new levels.



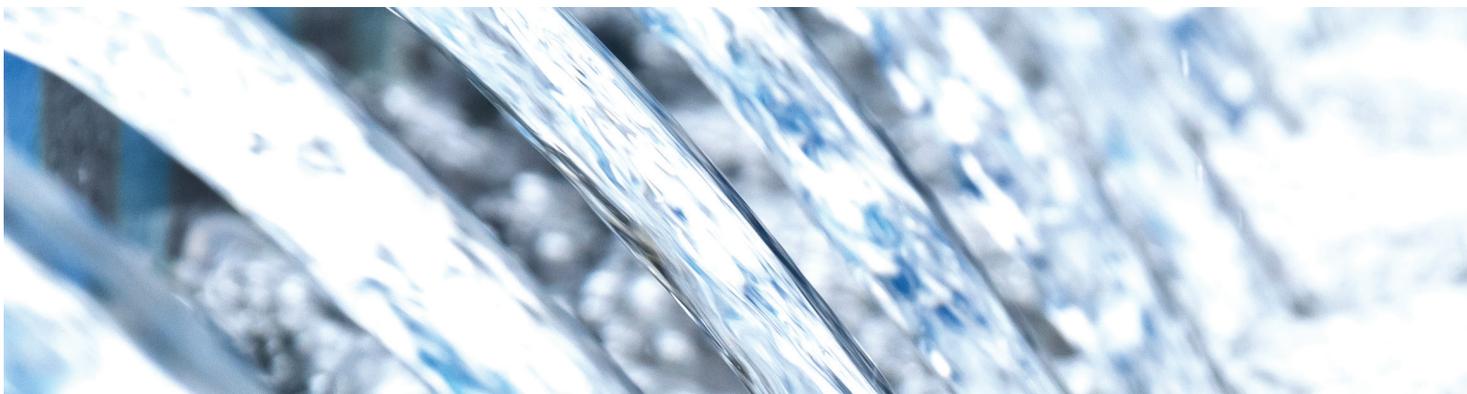
# CHEMICALS

SABIC's chemicals portfolio constitutes the most basic building blocks of a large variety of other chemicals and advanced materials, ultimately enabling the manufacture of a vast range of industrial and consumer goods.

Thanks to our global investments in the latest technology and our ambition to be the preferred world leader in chemicals, our manufacturing plants produce a wide range of world-class products –aromatics and olefins, glycols, oxygenates, catalysts and a variety of functional chemicals.

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# PRODUCT PORTFOLIO



## CHEMICALS

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### OLEFINS

- Ethylene
- Propylene
- Butadiene

### ETHANOLAMINES

- Monoethanolamine
- Diethanolamine
- Triethanolamine

### ETHYLENEAMINE

- Ethylenediamine (EDA)
- Diethylenetriamine (DETA)
- Piperazine (PIP68)

### AROMATICS

- Phenol
- Styrene Monomer
- Acetone
- Benzene

\*SABIC offers additional Aromatics products such as Pygas, Anisole, Fuel Oils etc. based on availability.

### CHLOR-ALKALI

- Ethylene Dichloride
- Caustic Soda

### GLYCOLS

- Monoethylene Glycol
- Diethylene Glycol
- Triethylene Glycol

### OXO ALCOHOLS & PERFORMANCE MONOMERS

- 2-Ethylhexanol
- Iso-butylaldehyde
- N-butanol
- Iso-butanol
- Dioctyl Phthalate
- Methyl Methacrylate

### POLYURETHANE

- TDI 0380
- MDI 2031
- Polyol 0656
- Polyol 0548
- Polyol 0434
- Polyol 1127
- Polyol 1132
- Polyol 1529
- o-TDA



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## PROPYLENE OXIDE DERIVATIVES

- Propylene Oxide
- Propylene Glycol

## LINEAR ALPHA OLEFINS

- Butene-1
- Hexene-1 (C6)
- Octene-1 (C8)
- Decene-1 (C10)
- Dodecene-1 (C12)
- C14-C18
- C20+

## GASES

- Gaseous Nitrogen
- Liquid Nitrogen
- Gaseous Oxygen
- Liquid Oxygen
- Liquid Argon
- Gaseous Hydrogen
- Liquid Carbon Dioxide
- Crude Krypton

## OXYGENATES

- Methanol
- Methyl Tertiary Butyl Ether
- Methyl Tertiary Butyl Ether - TX

## BUTYL GLYCOL ETHER (BGE)

- Butoxy Glycol Ether (EB)
- Butoxy Di Glycol Ether (DB)
- Butoxy Tri Glycol Ether (BTG)

## ETHOXYLATES

- Polyethylene Glycol PEG 200
- Polyethylene Glycol PEG 300
- Polyethylene Glycol PEG 400
- Polyethylene Glycol PEG 400 Pharma
- Polyethylene Glycol PEG 600
- Polyethylene Glycol PEG 600 Pharma
- Natural Alcohol Ethoxylate L1
- Natural Alcohol Ethoxylate L2
- Natural Alcohol Ethoxylate L3
- Natural Alcohol Ethoxylate L7
- Natural Alcohol Ethoxylate L9
- Castor Oil Ethoxylate EL 30
- Castor Oil Ethoxylate EL 40
- Synthetic Alcohol Ethoxylate TA 5
- Synthetic Alcohol Ethoxylate TA 6
- Synthetic Alcohol Ethoxylate TA 7
- Synthetic Alcohol Ethoxylate TA 8
- Synthetic Alcohol Ethoxylate TA 9
- Synthetic Alcohol Ethoxylate TA 10
- Synthetic Alcohol Ethoxylate TA 3070
- Synthetic Alcohol Ethoxylate TA 4070

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# AROMATICS AT A GLANCE

SABIC is recognized as a global leader in Styrene with a sizeable production and global reach.



## PRODUCT PORTFOLIO

Styrene  
Benzene  
Phenol  
Acetone



## NAMEPLATE CAPACITY

Styrene	2175 Kt/a
Benzene	890 Kt/a
Phenol	845 Kt/a
Acetone	517 Kt/a



## MANUFACTURING FOOTPRINT

**KSA Jubail:** PETROKEMYA,  
SAUDI KAYAN

**KSA Yanbu:** YANSAB

**KSA Rabigh:** Petro Rabigh

**USA:** COSMAR, MOUNT VERNON

**Europe:** GELEEN

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# OLEFINS AT A GLANCE

SABIC is one of the largest producers of Ethylene around the globe with annual capacity of 15MMT



## PRODUCT PORTFOLIO

Ethylene  
Propylene  
Butadiene  
Alpha Olefins  
Butene-1



## NAMEPLATE CAPACITY

29 MMT/A



## MANUFACTURING FOOTPRINT

KSA Jubail: PETROKEMYA, UNITED,  
SAUDI KAYAN, SHARQ

KSA Yanbu: YANSAB, YANPET

USA: GCGV

Europe: GELEEN, TEESIDE

China: SSTPC

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# GLYCOLS AT A GLANCE

SABIC is recognized as a global leader in Glycols with a sizeable production and global reach.



## PRODUCT PORTFOLIO

MEG  
DEG  
TEG



## NAMEPLATE CAPACITY

7.85 MMt/A  
MEG

650 Kt/A  
DEG  
TEG



## MANUFACTURING FOOTPRINT

KSA Rabigh: PRC

KSA Jubail: UNITED, SAUDI  
KAYAN, SHARQ

KSA Yanbu: YANSAB, YANPET

China: SSTPC

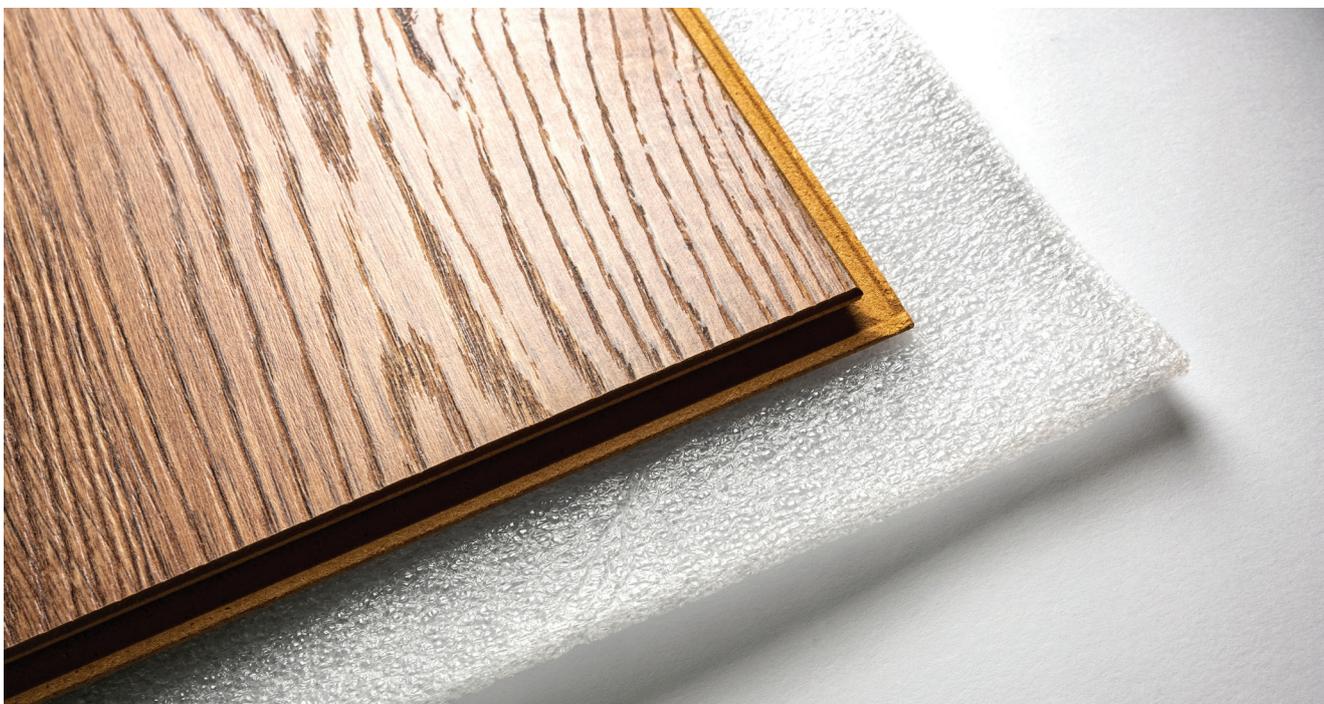
USA: GCGV

Malaysia: Prefchem

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# OXYGENATES AT A GLANCE

SABIC is recognized as a global leader in Methanol and MTBE with a sizeable production and global reach.



## PRODUCT PORTFOLIO

MeOH  
MTBE



## NAMEPLATE CAPACITY

5.4 MMt/A  
MeOH

3.2 MMt/A  
MTBE



## MANUFACTURING FOOTPRINT

MeOH:  
KSA Jubail: ARRAZI, IBN SINA  
Bahrain: GPIC

MTBE:  
KSA Jubail:  
IBN-ZAHR, IBN-SINA, PETROKEMYA  
KSA Yanbu: YANSAB  
Europe: GELEEN  
China: SSTPC

# FUNCTIONAL CHEMICALS AT A GLANCE

SABIC is recognized as a global leader in Styrene with a sizeable production and global reach.



## PRODUCT PORTFOLIO

### Functional Chemicals:

Chlor Alkali, Oxo, MMA, Ethanolamine, Ethyleneamine, Ethoxylate, Butyl Glycol Ether, Propylene Oxide, Propylene Glycol, Polyurethane



## NAMEPLATE CAPACITY

### Functional Chemicals:

TDI:	200 Kt/a
MDI:	400Kt/a
Polyols:	400Kt/a
Chlor Alkali	1,510 Kt/a
Oxo	325 Kt/a
MMA	250 Kt/a
Ethanolamine	215 Kt/a
Ethyleneamine	30 Kt/A
Ethoxylate	40 Kt/A
Butyl Glycol Ether	200Kt/a
Propylene Oxide	500 Kt/a
Propylene Glycol	90 Kt/a



## MANUFACTURING FOOTPRINT

### Functional Chemicals:

**KSA Jubail:** Petrokemya, Saudi Kayan, SAMAC, SADARA, SABUCO, Albayroni

**KSA Rabigh:** Petro Rabigh

**South Korea:** S-Oil



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# CATALYSTS AT A GLANCE

Enable petrochemicals leadership, allowing differentiation through continuous development and scaling-up capabilities.



## PRODUCT PORTFOLIO

TEAL  
BUCAT  
 $\alpha$ -SABLIN  
EO Catalyst  
1-Hexene



## NAMEPLATE CAPACITY

TEAL	6,000Mt/a
BUCAT	300Mt/a
$\alpha$ -SABLIN	400Mt/a
EO Catalyst	6,000Mt/a
1-Hexene	100Mt/a



## MANUFACTURING FOOTPRINT

KSA Jubail: Petrokemya  
KSA Riyadh: STC  
USA: New Jersey  
EU: Munich, Germany  
Dubai: (sales office)  
Shanghai: (sales office)



# PRODUCT APPLICATIONS

PRODUCT	MAIN APPLICATIONS
Linear Alpha Olefins	LLDPE
	HDPE
	Detergents
	Lubricants
	Oil Field Chemicals
Iso-butyraldehyde	Plasticizers
	Paints & Coatings
	Personal care
Diocetyl Phthalate	Perfume
	Cable & Wires
	PVC Pipes
	Hoses
N-Butanol	Roofing Materials
	Paints & Coatings
	Cosmetics
	Leather
	Perfumes
Ethanolamines	Industrial Cleaning Solutions
	Lubricants
	Surfactants & Detergents
	Agriculture
	Construction
	Metalworking
	Refineries
	Wood Preservatives
	Pharmaceuticals
	Personal Care & Cosmetics
Water treatment	
Ethyleneamine	Textile
	Oil Field
	Homecare
	Adhesives & sealants
	Asphalt additives
	Concrete admixture
	Epoxy resins for wind turbine blades
	EDA as Polyetheramines
Water treatment as Chelating agents	
Butoxy Glycol Ether (BGE)	Lubricants
	Oil field chemicals
	Active solvent for solvent-based coatings
	Coalescent for industrial water-based coatings
	Coupling agent for architectural water-borne coatings
	Coupling agent and solvent in household and industrial cleaners, rust removers, hard surface cleaners, and disinfectants
	Primary solvent in solvent-based silk screen printing inks
Coupling agent for resins and dyes in water-based printing inks	
Ethoxylates	Solvent for agricultural pesticides
	Personal Care & Cosmetics
	Surfactants & Detergents
	Textile
	Paints
	Pharmaceuticals
	Dyes
	Paints & Coatings
Agriculture	
Propylene Oxide	Plastic Lubricants
	Leather
Propylene Glycol	Automotive, Furniture, Building Insulation
	Textile lubricants & soaps, Brake Fluid, Cutting Oils

PRODUCT	MAIN APPLICATIONS
P-xylene	Terephthalic Acid
Methyl Methacrylate	Acrylic Sheet
	Molding Compounds
Glycols	Paints & Coatings
	Impact Modifier
	Polyester resins
	Adhesives
	Paints & Coatings
	Textile
	Paper
	Leather
	Antifreeze
	Construction
Industrial Gases Applications	Lubricants
	Water treatment
	Brake fluids
	Oil Field
	Chemicals
	Refining & Energy
	Metallurgy
Methanol	Healthcare
	Glass
	Electronics
	Pulp & Paper
	Raw material for manufacturing of Formaldehyde, Acetic acid, Polyacetal, MTBE, Acetaldehyde, Ethanol, Acetic Anhydride, MMA, HCN, Methyl Formate, Methyl, Amines, Polymethyl Phenol, Dimethyl Ether, H2 gas, CO gas
	Fuel
MTBE	Gasoline blending
	Synthetic Rubbers
Acetone	Methyl Methacrylate
	Personal Care
	Textile
Phenol	Surface Coatings
	Films & Adhesives
	Pharmaceuticals
	Azo dyes
Ethylene Dichloride	Wood preservatives
	Plastics
	PVC
Caustic Soda	Detergents
	Water treatment
	Paints
Olefins	Chemicals processes
	Chemicals Manufacturing
	Polymer
Styrene Monomer	Synthetic Rubbers
	Styrene homopolymers and copolymers
Iso-butanol	Packaging materials and sheets
	Paints & Coatings
2-Ethylehexanol	Personal care
	Perfume
Polyurethane	Plasticizers
	Adhesives
	Mattress and Furniture, Automotive, Home Appliances, Building and Constructions, Coatings and Adhesives, Industrial Insulation

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# SUPPLY CHAIN

SABIC has its main manufacturing bases in Saudi Arabia, while also continuing to invest in regional manufacturing sites for selected key products and markets. In line with our commitment to a sustainable future, increased focus on sustainability and expanding our TRUCIRCLE™ certified circular products portfolio is a key area of innovation. SABIC is also the marketer of chemicals produced by Aramco joint-ventures in the Middle-East and Asia. (Sadara, PRC, S-Oil, PrefChem).

This unique portfolio allows us at SABIC to leverage and continuously optimize our global network of storage terminals with Import storage & distribution terminals at key petrochemical ports worldwide. These terminals serve as breakbulk hubs, so we can ship combined parcels with significantly reduced emissions globally through partnerships with selected carriers. We are able to deliver in smaller coastal vessels, by inland barge, rail, road or intermodal transportation to optimize transport to inland customer locations. The network also ensures regional availability of selected chemical products inventory close to our customers in order to provide enhanced security of supply and agility.

Our SABIC Chemical Supply Chain teams focus on delivering the chemical products that are often classified as dangerous goods in a safe, reliable and cost-competitive way, with increased focus on Sustainability and reducing emissions including carbon footprint. We ensure this by maximizing shipment parcel sizes and using best available fuel-efficient logistics services whenever cost competitively available. The majority of our chemical products are transported and sold as bulk liquid chemicals and liquefied gases, while for specialized applications ISO tank containers, flexi-tanks and drums are also offered.

# SABIC GLOBAL CHEMICALS MANUFACTURING STORAGE & DISTRIBUTION TERMINAL NETWORK



SABIC Chemicals Manufacturing sites, Ind. Aramco Chemical JV's

Chemicals Storage & Distribution Terminals

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