

# DYES & CHEMICAL MARKET

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DYES CHEMICALS PHARMACEUTICALS API TEXTILE AUXILIARIES PAINTS SOLVENTS COSMETICS

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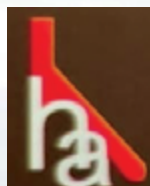
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Ammonium Aluminium Sulphate	7784-25-0
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Calcium Chloride Di Hydrated,	10035-04-8
Copper Sulphate Pentahydrate	7758-99-8
Dicalcium Phosphate Anhydrous	7757-93-9
Dicalcium Phosphate Dihydrate	7789-77-7
Ferrous Sulphate Heptahydrate	7782-63-0
Magnesium Chloride Hexahydrated	7791-18-6
Magnesium Sulphate Heptahydrate	10034-99-8
Potassium Acetate	127-08-2
Potassium Aluminium Sulphate	7784-24-9
Potassium Chloride	7447-40-7
Potassium Sulphate	7778-80-5
Sodium Acetate	127-09-3
Sodium Bicarbonate	144-55-8
Sodium Carbonate Anhydrous	497-19-8
Sodium Chloride	7647-14-5
Tricalcium Phosphate	7785-87-4
Zinc Sulphate Heptahydrate	7446-20-0
Zinc Sulphate Monohydrate	7446-19-7

**76238 75624  
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## INVENTYS RESEARCH COMPANY PVT. LTD.

Products	CAS
• 3,4-Dimethylpyrazole [DMP]	2820-37-3
• 3,4-Dimethylpyrazole Phosphate	2820-37-3
• Sucralfate	202842-98-6
• Isatoic Anhydride	54182-58-0
• 3-Chloroaniline [MCA]	118-48-9
• 5-Chloro Thiophene-2-Carboxylic Acid [5CTA]	108-42-9
• 2,6-Dimethyl-1-Indanone	24065-33-6
• 2-Amino-4-methoxy-6-methyl-1,3,5-triazine [AMT]	66309-83-9
• Di-Bromo-5-Methyl 5-Phenyl Hydantoin [DBH]	1668-54-8
• 5-tert-Butyl-m-Xylene	98-19-1
• 1-Chlor-2-methoxy naphthalene	13101-92-3
• 2-Bromo-6-methoxy naphthalene	5111-65-9

Products	CAS
• 3-Ethyl-4-methyl-3-pyrrolin-2-one [EMPO]	766-36-9
• Acetonitrile	75-05-8
• 4-Fluorophenol	371-41-5
• Benzethonium Chloride (BTC)	121-54-0
• 2-Amino-5-chlorobenzoic Acid [ACBA]	635-21-2
• Decanenitrile (DCN)	1975-78-6
• 5-Methyl 5-Phenyl Hydantoin [MPH]	6843-49-8

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**Product Inquiry:**

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CHENNAI PRICE TREND – 8.01.2023		
Inorganic Chemicals	No of Units Per Pack	Price (Rs/Kg)
Acid Slurry (Soft)	50 Kgs	152.00
Alum- Ferric	50 Kgs	22.00
Ammonium Bicarbonate	25 Kgs	35.00
Ammonium Bi fluoride [sugar-grade]	50 Kgs	178.00
Ammonium Carbonate	50 Kgs	81.00
Ammonium Chloride	50 Kgs	52.00
Ammonium Nitrate	50 Kgs	30.00
Ammonium Phosphate (Mono)	50 Kgs	135.00
Ammonium Sulphate	50 Kgs	29.00
Antimony Trioxide	50 Kgs	1150.00
Barium Chloride	50 Kgs	58.00
Bleaching Powder (33% Cl)	25 Kgs	22.00
Borax (Granular)	50 Kgs	84.00
Boric Acid (Tech.)	50 Kgs	130.00
Calcium Carbonate ( Activate)	50Kgs	18.00
Calcium Carbonate (Precipitated)	50 Kgs	17.00
Calcium Chloride Lump 70%	50 Kgs	14.00
Calcium Chloride-Anhydrous	50 Kgs	24.00
Camphor Oil	200 Litres	135.00
Caustic Potash (Flakes)	50 Kgs	143.00
Caustic Soda (Flakes)	25 Kgs	62.00
Caustic Soda (Prills)	50 Kgs	98.00
Chromic Acid Flakes	50 Kgs	345.00
Chlorinated Xylene	25 Kgs	85.00
Copper Sulphate	180 Kgs	220.00
Di ammonium Phosphate	50 Kgs	34.00
Diocetylmalite	180 Kgs	82.00
Ferric Chloride (Anhydrous)	Naked	45.00
Ferrous Sulphate – crystals	50 Kgs	16.00
Hydrochloric Acid	Naked	6.00
Hydrogen Peroxide 50%	50 Kgs	37.00
Hyflosupercell	22.7 Kgs	138.00

Litharge	50 Kgs	220.00
Lithopone B301(China)	25 Kgs	112.00
Magnesium Carbonate (Indian)	50 Kgs	130.00
Magnesium Sulphate	50 Kgs	18.00
Mercury	34.5 Kgs	7800.00
Napthaline Balls	50 Kgs	130.00
Nickel Chloride	25 Kgs	725.00
Phosphoric Acid (85% Tech)	50 Kgs	125.00
Potassium Carbonate (Powder)	25 Kgs	178.00
Potassium Carbonate (Granules)	25 Kgs	145.00
Potassium Nitrate	50 Kgs	150.00
Potassium Permanganate [Tech]	50 Kgs	190.00
Potassium Permanganate [Pure]	50 Kgs	230.00
Potassium Phosphate (Di)	50 Kgs	158.00
S.L.E.S	50 Kgs	64.00
Soda Ash Light	50 Kgs	45.00
Sodium Bicarbonate	50 Kgs	42.00
Sodium Bichromate	50 Kgs	190.00
Sodium Bisulphite	50 Kgs	54.00
Sodium Chlorite 50% (India)	50 Kgs	265.00
Sodium Chlorite 80% (India)	50 Kgs	310.00
Sodium Cyanide	50 Kgs	650.00
Sodium Fluoride	50 Kgs	150.00
Sodium Formate	50 Kgs	65.00
Sodium Hexameta Phosphate 68%	50 Kgs	148.00
Sodium Hydrosulphite [China]	50 Kgs	180.00
Sodium Metabisulphite	50 Kgs	43.00
Sodium Nitrate	50 Kgs	110.00
Sodium Nitrite (China)	50 Kgs	105.00
Sodium Silicate	Noted	28.50
Sodium Sulphate (Anhydrous)	50 Kgs	17.00
Sodium Sulphide 50-52% (Flakes)	50 Kgs	58.00
Sodium Sulphite 92%	50 Kgs	56.00

Above prices are given in good faith by : **MR. SUBHASH GHORAWAT**

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MUMBAI PRICE TREND – 8.01.2023	
Organic & Inorganic Chemicals	Price (Rs/Kg)
ACRYLIC ACID	118+
DCDA	300+
NBA	102+
BUTYL ACETATE	106+
CAUSTIC POTASH	125+
ACETONE	76+
MDI	165+
BAM	120+
EDC	46+
DA	100.00
IPA	99+
MEK	126.00
OCT	125.00
NPAC	125.00
PG	122.00
CYCLO	132.00
TEA	95+

BC	110+
CL	40+
MPD	185.00
N.PROPANOL	145.00
HEXAMINE	110.00
DMC	100.00
MDI	165.00
THF	220.00
ETHYL ACETATE	90+
FORMAL	20.25+
TOLUENE	88+
GLYCERINE	69+
PINE OIL	110+ INDL
SMBS	39+ KG
P.G TECH	115+
OXYLENE	116*
MEG	58+
DEG	75+
METHANOL	37.50+

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# Buy Enquiries


Post your BUY Enquiries:

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Product Name	Qty	Grade
Potassium Aluminium Fluoride Lumps //	12 Grams	Industrial 
Details :		


Product Name	Qty	Grade
MELFLUX 2651 F // Polycarboxylic Ether - PCE - Powder // 39072090 // BASF CONSTRUCTION POLYMERS GmbH	33 Lbs	Any 


Details : Would like to know the cost per bag of this material. Is there a minimum order size? I'm in Brockville Canada


Product Name	Qty	Grade
CAUSTIC SODA FLAKES // LYE // Sodium hydroxide // 1310-73-2	250 gms	Technical 


Details : Please quote for Caustic Soda Flakes 99% on ex Mhapse basis.


Product Name	Qty	Grade
Corium Z190 // Corium - ITW	150	Any 
Details : Supply of corium Z-190		

Product Name	Qty	Grade
n-Butyllithium solution 2.5 M in THF // 109-72-8 // B016	3 Litres	Industrial 
Details : kindly quote for 3 lit of n-Butyllithium solution 2.5 M in THF for Price and lead time		


Product Name	Qty	Grade
Triethylsilane 98% // 617-86-7 // T36710	500 Grams	Industrial 
Details : Triethylsilane 98% / 617-86-7 / T36710, Grade, 0.0000 g/500g		


Product Name	Qty	Grade
Plast Retard PE // Powder Retarding Agent // 38244000 // Sicit Group SPA	100 Kgs	Industrial 
Details : Need to increase setting time		


Product Name	Qty	Grade
Nigrosine Black Dyes // 101357-32-8 // Acid Black 2	1 Cans	Industrial 
Details : For Test Purpose		


Product Name	Qty	Grade
n Butyllithium 23% in Hexane // 109-72-8 // B66730	5 Tonnes	Chemical 


Details : I want to know the information of COA, MSDS, TDS, Quotation and if your factory have ISO certificate, ISO9001 certification. Thank you.

Product Name	Qty	Grade
Corium 4040 // Corium - ITW	150 Kgs	Industrial 
Details : I need Corium 4040 and quantity 150 set . Please give me price. Including shipping cost to Dhaka -1229, Bangladesh		

Product Name	Qty	Grade
Plast Retard PE // Powder Retarding Agent // 38244000 // Sicit Group SPA	200 Kgs	Chemical 
Details : Need to increase setting time		

Product Name	Qty	Grade
Potassium iodide-IP-BP-USP // KI // CAS# 7681-11-0 // 28276010 // Infinium	1 Kgs	VirginPure 
Details : Multi compendial IP BP USP		

Product Name	Qty	Grade
2-Phenoxyethanol // 122-99-6 // P12030	220 Kgs	Industrial 
Details : Required Phenoxyethanol CAS No-122-99-6 1 Barrel on urgent basis plz contact me only local supplier Bangalore		

Product Name	Qty	Grade
Caustic Soda Flakes 98% // sodium hydroxide // 1310-73-2 // 281511	2 Tonnes	Technical 
Caustic Soda	1 Tonnes	Technical
Details : ASAP		



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Product Name	Qty	Grade
Corium Z190 // Corium - ITW	150	Any
Details : Supply of corium Z-190		

Product Name	Qty	Grade
Ethylbenzene LR // 100-41-4 // E03232	1 Litres	Industrial
Details : Ethylbenzene LR / 100-41-4 / E03232, Grade, 0.0000 LTR/2.5LTR		

Product Name	Qty	Grade
Sulphur Granules	30 Tonnes	Industrial
Details : GRANULATED SULPHUR		

Product Name	Qty	Grade
Violet FRL // Disperse Violet 26 // 12217-95-7	1 Kgs	Technical
Details : Please Quote 1 kg of 12217-95-7 including freight to Pasadena, California, USA		

Product Name	Qty	Grade
Phthalimide // 85-41-6	1000 Kgs	Industrial
Details : Pls quote for Phthalimide Acid		

Product Name	Qty	Grade
Ethyl Trifluoroacetate // Ethyl Trifluoroacetate // 383-63-1	3000 Kgs	Technical
Details : please quote price of ETFA for 3000 kgs.		

Product Name	Qty	Grade
Potassium Carbonate Granular	750 Kgs	Industrial
Sodium Nitrate	1500 Kgs	Industrial
Caustic Soda Flakes	2000 Kgs	Industrial
Details : GACL Rayon Grade Potassium Carbonate - Equal to UBID Korea		

Product Name	Qty	Grade
Glycerine	5000 Kgs	Industrial
Details : Please quote your best price		

**Did you know? In Whatsapp version, click on the URL link to visit website or click on the email link to send an email**

Product Name	Qty	Grade
Rangday Beta Blue 604 // PB 15:3	40 Tonnes	Industrial

Details : My name is Milton Ribeiro and I am representing the company Vivacor Indústria de Tintas Brazil and we are looking for new suppliers for organic pigments for printing inks water and solvent based. Vivacor is a very traditional ink producer in Brazil with more than 50 years in the market. Nowadays we are importing pigments from India, around 60 ton/year of PB 15:0 and PB 15:3. If you are interested in starting a business relationship with us, please let me know and we can provide more details about of our needs and consumption. I am looking forward to hearing from you. Best Regards, Milton Ribeiro

Product Name	Qty	Grade
2-Aminobenzotrifluoride / CAS 88-17-5.	500 Kgs	Technical
5-acetylacetamidobenzimidazolone /CAS: 26576-46-5 .	2 Tonnes	Technical
Details : 1) We need 500 kilos for pigment production 2) We need 2 Tonnes		

Product Name	Qty	Grade
Succinic Acid 99%-food grade	80 Tonnes	Chemical
Details : My Client Required Succinic Acid 99%-food grade Please provide me Quotation along with Coa & MSDS Qty: 80MT Delivery Location: Mumbai, INDIA Payment under LUT Make : Imported/Domestic Please do the needful		

Product Name	Qty	Grade
Corium Z202R // Corium - ITW	24 Cans	None
Details : Corium Z202R Package size: 500 ml/ bottle Manufactured by: ITW performance polymer & fluid Korea or China Composition: Synthetic Alkyd Oxidizing Insulating Enamel Appearance: Red liquid spray Odour: Solvent Dielectric strength: 1400 V/ mil Tack free dry: 60 minutes Heat resistance: >72 hrs. at 135 degree centigrade.		

Product Name	Qty	Grade
n-Butyllithium solution 2.5 M in THF // n-Butyllithium solution 2.5 M in THF // 109-72-8 // B016	1 Mililitres	Chemical
Details : Research		







# Buy Enquiries

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Product Name	Qty	Grade
Strontium Carbonate Powder Imported	100 Kgs	Industrial
Metaldehyde	100 Kgs	Technical
Azidotetrazole	100 Kgs	Technical
Strontium Carbonate	1000 Kgs	Technical
Phenolic Resins	1000 Kgs	Technical 


Details : 1) We are interested to buy strontium carbonate powder imported solvay material 2) We are interested to buy metaldehyde and Azidotetrazole in bulk for industrial applications 3) we are interested to buy metaldehyde and Azidotetrazole in bulk for industrial applications 4) we are interested to buy strontium carbonate powder imported 5) we are interested to buy phenolic resins

Product Name	Qty	Grade
Epoxy Novolc Resin	200 Kgs	Chemical
N75 Hardner	600 Kgs	Chemical
PGE Epoxy Diluent	400 Kgs	Chemical
Cycloaliphatic Amine Epoxy Hardner	500 Kgs	Chemical
Ancamine 2753	500 Kgs	Chemical 
Epoxy Silane 6040	50 Kgs	Chemical


Details : Require Quotation

Product Name	Qty	Grade
861229-15-4	1000 Tonnes	Industrial 


Details : This is an additive for waterproofing membrane and purity more than 90%

Product Name	Qty	Grade
Hydroxyzine HCL // 1244-76-4	1 Grams	Not Applicable 


Details : qty 1 gm; CAS 1244-76-4 for R&D use

Product Name	Qty	Grade
Violet FRL // Disperse Violet 26 // 12217-95-7	1 Kgs	Technical 


Details : please quote 1 kg of 12217-95-7 including freight to Pasadena, California, USA

Product Name	Qty	Grade
Violet FRL // Disperse Violet 26 // 12217-95-7	1 Kgs	Technical 


Details : please quote 1 kg of 12217-95-7 including freight to Pasadena, California, USA

Product Name	Qty	Grade
861229-15-4	1000 Tonnes	Industrial 


Details : This is an additive for waterproofing membrane and purity more than 90%

Product Name	Qty	Grade
Hydroxyzine HCL // 1244-76-4	1 Gram	Not Applicable 


Details : qty 1 gm; CAS 1244-76-4 for R&D use

Product Name	Qty	Grade
Potassium Carbonate Granular	750 Kgs	Industrial
Sodium Nitrate	1500 Kgs	Industrial
Caustic Soda Flakes	2000 Kgs	Industrial 


Details : Require following grade Caustic - GACL Rayon Grade Potassium Carbonate - Equal to UBID Korea

Product Name	Qty	Grade
CAS NO 112-12-7 FISCHER'S BASE	2000 Litres	Any 


Details : Required On Regular Basis. Min Qty 2000 Ltr.

Product Name	Qty	Grade
861229-15-4	200 Litres	None 

Details : For construction material

Product Name	Qty	Grade
Modified starch	1 Tonnes	Technical 

Details : For our won purpose

Product Name	Qty	Grade
Trifluoromethyl benzene (CAS 98-08-8)	300 Kgs	Industrial 

Details : I Need Trifluoromethyl benzene (CAS 98-08-8) Quantity : 300 KGS



# Buy Enquiries

Post your BUY Enquiries:

<https://www.chemicalmarket.net/search>

Product Name	Qty	Grade
Adipic Acid LR // 124-04-9 // A06830	1 Kgs	Any

Details : Reliable producers of Adipic Acid and another chemical products worldwide. Please feel free to contact me in order to see if we could work together

Product Name	Qty	Grade
TRANS, TRANS-2,4-HEXA-DIENYL ACETATE CAS:1516-17-2 HS CODE:29153900	2 Tonnes	Chemical

Calcium Stearate // 29157090 // Broadways Chemtech	10 Tonnes	Any
--	-----------	-----

DEFOAMER // 126-86-3 // 38111900 // LL 9900	10 Tonnes	Any
---	-----------	-----

Details : • 2 tons stock TRANS,TRANS-2,4-HEXADIE-NYL ACETATE CAS:1516-17-2 HS CODE:29153900 10 TONS PER YEAR by partial shipments. need provide MSDS/Packing certificate

• Need CAS:1516-17-2 HSN:29153900 Please contact me if could provide thanks  
• Inquiry CAS:1516-17-2

Product Name	Qty	Grade
MELFLUX 2651 F // Poly-carboxylic Ether - PCE - Powder // 39072090 // BASF CONSTRUCTION POLYMERS GmbH	100 Cans	Industrial

"	150 Drums	Industrial
"	150 Drums	Industrial

Details : 1) We need 150 sets(Part A & B), 500 ML Cans, Corium 4040  
2) Need Corium 4040. Qty-150 sets.  
3) We need Curium 4040. Qty-150 sets.

Product Name	Qty	Grade
N-ETHYL ORTHO// PARA TOLUENE SULFONAMIDE // 8047-99-2	100 Tonnes	-

Details : PL SEND MORE DETAILS WITH PRICE

Product Name	Qty	Grade
Pyridine - 3 - Sulfonic Acid // (P3SA) // 636-73-7 Virgin Pure	100 Grams	-

Details : P3SA High Purity

Product Name	Qty	Grade
Strontium carbonate powder imported	1000 Kgs	Industrial
Metaldehyde	100 Kgs	Technical
Azidotetrazole	100 Kgs	Technical
Strontium Carbonate	1000 Kgs	Technical
Phenolic Resins	1000 Kgs	Technical

Details : 1) We are interested to buy strontium carbonate powder imported solvay material  
2) We are interested to buy metaldehyde and Azido-tetrazole in bulk for industrial applications  
3) We are interested to buy metaldehyde and Azido-tetrazole in bulk for industrial  
4) We are interested to buy strontium carbonate powder imported  
5) We are interested to buy phenolic resins

Product Name	Qty	Grade
Corium 4040 // Corium - ITW	150 Set	None

Details : We are interested to buy corium 4040 150 set

Product Name	Qty	Grade
2-Butoxy Ethanol LR // 111-76-2 // B13132	3000Kgs	Chemical

Details : Share the contact details for take it further

Product Name	Qty	Grade
Poraver // Light Weight Aggregates // 32074085	10 Kgs	Technical

Details : grain size in mm : 0.1-0.4

Product Name	Qty	Grade
2-Thiophene Ethanol // 5402-55-1	500 Kgs	Technical

Details : Please offer your best quote, purity & lead time for below. 1) Product Name: Thiophene-2-ethanol CAS No. : 5402-55-1 Qty. : 500 Kgs

Product Name	Qty	Grade
Talc	5 Tonnes	Industrial

Details : We EXPORTS PARTNER are Buyer Rep. in India for sourcing and shipping all activities in India. Presently Buyer is looking to buy following product PRODUCT : Indian Origin -Purified Talc BP (Pharma Grade ) HS Code NO. : 25262000 Packing : 25KG Nett. Qty Required : 05 Tons. Port of Delivery : Tema Port, Ghana. Quotes Required : US \$/Ton CIF - Tema Port, Ghana.



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# CHEMICAL MARKET

A MONTHLY MAGAZINE DEVOTED TO THE DYES, CHEMICALS, PHARMACEUTICALS, TRADE & INDUSTRY SINCE 1982

## *Trends and Challenges Facing the Chemical Industry!*

The chemical industry is a vital part of the global economy, with products ranging from everyday household items to advanced materials used in a variety of industries. As the world continues to change and evolve, the chemical industry must adapt and innovate in order to meet the demands of a rapidly changing market. In this editorial, we will take a closer look at some of the trends and challenges facing the chemical industry today.

In the chemical industry,

- innovation is key trend in driving progress and meeting the evolving needs of consumers and businesses. From advancements in pharmaceuticals and materials science, to breakthroughs in renewable energy and sustainable production methods, the chemical industry is constantly pushing the boundaries of what is possible.

However, as with any industry, there are also challenges and controversies to address. One major issue is the potential for chemical products to have negative impacts on human health and the environment. This is why it is important for companies in the chemical industry to prioritize safety and sustainability in their operations, and to be transparent about the products they produce and their potential risks.

Another challenge facing the chemical industry is the need to balance the demand for progress and innovation with the need for regulatory oversight and responsible decision-making. This requires a nuanced approach that takes into account the potential risks and benefits of new technologies, and involves collaboration between industry, government, and other stakeholders.

Overall, the chemical industry has the potential to drive significant positive change in the world, but it is important for companies to approach their work with a sense of responsibility and a commitment to ethical practices. By doing so, they can help to ensure that the industry continues to thrive and make a positive contribution to society.

- Another trend that has been making waves in the chemical industry in recent years is the increasing focus on sustainability. With concerns about climate change and the environment at an all-time high, consumers and businesses alike are looking for ways to reduce their carbon footprint and minimize their impact on the planet. Companies are starting to recognize the importance of minimizing their impact on the environment and are working to develop eco-friendlier products and processes. This shift towards sustainability is not only good for the planet, but it is also good for business, as consumers are becoming more aware of the environmental impact of the products they buy.

To meet this growing demand for eco-friendly products, companies in the chemical industry are investing in research and development to develop more sustainable technologies and processes. This includes the use of renewable energy sources, the recycling of waste materials, and the development of biodegradable and compostable products.

Another trend that is shaping the chemical industry is the growing demand for specialty chemicals. As the global population continues to grow and urbanize, there is an increasing need for advanced materials and chemicals that can meet the unique needs of various industries. From pharmaceuticals and cosmetics to construction and transportation, the demand for specialized chemicals is only set to increase in the coming years.

- The chemical industry is also being impacted by the rise of digital technologies. From automation and data analytics to the use of artificial intelligence, companies are finding new ways to streamline their operations and improve efficiency. As these technologies become more prevalent, it will be important for companies in the chemical industry to stay up-to-date and consider how they can use them to their advantage. For example, the use of advanced analytics can help companies optimize their production processes, reduce waste, and increase efficiency. The use of artificial intelligence can also help companies to improve their supply chain management, predict demand, and develop new products.

To meet this demand, companies in the chemical industry are investing in research and development to develop new and innovative products. This includes the use of advanced technologies such as 3D printing and nanotechnology to create new materials with unique properties. It also involves the use of data analytics and machine learning to identify new market opportunities and develop targeted products.

In conclusion, the chemical industry is facing a range of exciting challenges and opportunities. From the increasing focus on sustainability to the growth of specialty chemicals and the rise of digital technologies, there is no shortage of exciting developments to keep an eye on. It is an exciting time to be a part of this dynamic and constantly evolving industry.

Finally, the chemical industry must also grapple with the challenge of global economic uncertainty. The impact of trade tensions, geopolitical instability, and other economic factors can create uncertainty and volatility in the market, making it difficult for companies to plan for the future.

**-Rajiv Parikh**



# Segmenting the Polymer 3D Printing Materials Market - IDTechEx Report 17 Different Ways

BOSTON, Dec. 21, 2022 /PRNews-wire/ -- "Diverse and Developing" - the only way to describe the current breadth of the polymer materials portfolio for additive manufacturing. From materials that vary in form factor (i.e., powders, resins, filaments) to material properties (i.e., flexible, reinforced, tough, etc.) to application (i.e., medical, industrial, dental, etc.), it can be difficult to define suitable enough categories that adequately cover this diverse market. This job becomes even tougher when one considers how many more polymers are being added to the AM market every year! For example, at Formnext 2022 alone, IDTechEx tracked a large number of companies announcing new polymer materials for 3D printing. Additionally, 3D printer manufacturers continue to innovate on printer technologies (i.e., reactive thermoset extrusion, selective thermoplastic electrophotographic process (STEP), etc.), which subsequently require more tailored polymer materials to suit those technologies.

To break down the market in the most comprehensive way, IDTechEx approaches this with a multi-tiered approach. The first is a high-level segmentation based on the materials' form factor: thermoplastic powders, thermoplastic filaments, and photopolymer resins. These three overwhelmingly dominate the polymer 3D printing industry. However, each of those form factor categories contains a lot of variation and diversity in materials, each of which will have different growth trends. For example, PLA (polylactide) filaments, a long-established low-cost material, have a much different market position and trajectory compared to PEEK (polyether ether ketone) filaments, a high-perfor-

mance, more expensive material. Thus, it's quite helpful to segment these three categories even further to examine the trends developing for more specific categories. IDTechEx has chosen to use a mixture of material property-based categories (i.e., Engineering (Nylon), Flexible, Reinforced, etc.) and application-based categories (i.e., General Purpose, Support, Healthcare, etc.) to define five different segments for thermoplastic powders, six for thermoplastic filaments, and six for photopolymer resins for a total of seventeen different segments of polymer additive manufacturing materials.

By developing these segments and then forecasting their 10-year outlook, IDTechEx finds that while filaments are the dominant feedstock form by revenue in 2022, they are quickly losing ground to resins and powders, which are used by higher throughput technologies with more expensive feedstock. The main example of this would be in thermoplastic powders, which benefits from being used by selective laser sintering (SLS) and multi-jet fusion (MJF), two high-throughput printing technologies targeted towards high-volume applications. Additionally, the most common thermoplastic powder material, nylon, starts at around US\$100-120 per kilo, far above the starting price for popular thermoplastic filaments like PLA, which start at US\$15-20 per kilo. These two factors result in the revenue generated by thermoplastic powder sales surpassing that of thermoplastic filaments and photopolymer resins by 2033.

Drivers Influencing Polymer Material Development for 3D Printing

While these forecasts from IDTechEx break down how polymer AM materials will evolve over the next 10 years, they do not comment on the market forces influencing polymer materials development, which are essential to fully understand the polymer AM materials industry. The two most important factors can be broadly broken down into A) the need to reduce materials cost and B) the need to increase the available polymer materials portfolio for AM.

First and foremost, materials cost continues to be a pressing concern for AM users; according to a 2021 survey by multinational materials supplier Jabil, 53% of respondents reported that a top challenge they face with 3D printing is that AM materials are too expensive to use at scale. In general, the cost of materials for a 3D-printed part makes up a much higher proportion of the final unit cost than with a traditionally manufactured part. A University of Nottingham study further exploring the economics of 3D printing found that, for a given SLS part, material costs made up nearly a third of the total unit cost. While the cost per kilo of AM polymers is expected to decrease as the AM economy scales, given the importance of cost concerns for AM users, AM materials suppliers are still exploring different approaches to reduce the costs inherent in producing AM materials. One approach involves the reduction of initial feedstock costs to reduce the cost of the final AM material; some look at converting waste or recycled materials into filaments to accomplish this, while Polish start-up AlphaPowders is developing equipment that converts cheaply synthesized thermoplastic powder into AM-grade



powder. Another approach involves the development of lower-cost AM-material production equipment; the DLR Institute of Composite Structures and Adaptive Systems sought to make continuous fiber polymer composite materials cheaper to produce by making lower-cost production equipment. Yet another approach centers on using additive design techniques, like generative design and lattice structures, to reduce materials consumption compared to traditionally manufactured parts; while this does not change the base cost of the material per kilo, it does help lower the total materials cost per part.

Secondly, the lack of necessary materials is another concern for AM users, with the same 2021 Jabil survey finding that one-third of AM user respondents cite as a key challenge that the needed materials are not available for 3D printing. That challenge is also compounded

by the fact that the high-performance polymers most desired for end-use applications tend to be the most expensive. Still, 3D printing companies continue to address this challenge with their new materials releases, which often target specific high-performance industries. For example, multiple companies like Desktop Metal and PrintFoam have developed "true" foam materials for 3D printing, which aim to improve upon the "digital" foam common in 3D printing, which emulates foam not by using actual foaming material but through printing an open-cell lattice structure. Another example would be the development of dielectric materials for radio-frequency applications by companies like Fortify (in collaboration with Rogers Corporation) and Nanoe. Other materials coming to market that look to address demanding applications include room-temperature-cure polyurethanes, like those developed by Chro-

matic 3D Materials and PPG Industries, and viscous photopolymer resins, like those developed by Cubicure, BCN3D (in collaboration with Arkema), and Quantica. Still, much work is needed for the high-performance materials portfolio of 3D printing to come even close to matching that of injection molding or extrusion.

Overall, IDTechEx finds that these two concerns play a big role in the development of each of the seventeen polymer AM material segments over the next decade; what will be interesting to watch is which other challenges will rise as a major influencing factor.

Read the full report : [www.IDTechEx.com/polymerAM](http://www.IDTechEx.com/polymerAM).

If you want your report abstract to be published please contact [info@chemicalmarket.net](mailto:info@chemicalmarket.net)

## \$26 Billion Worldwide Propylene Oxide Industry to 2027 - Featuring Air Liquide, BASF, Dow and Eastman Chemical Among Others

DUBLIN, Dec. 16, 2022 /PRNewswire/ -- The "Propylene Oxide Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027" report has been added to ResearchAndMarkets.com's offering. The global propylene oxide market reached a value of US\$ 18.8 Billion in 2021. Looking forward, the publisher expects the market to reach US\$ 26 Billion by 2027, exhibiting a CAGR of 5.55% during 2021-2027.

Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

Propylene oxide (C<sub>3</sub>H<sub>6</sub>O), also known as epoxypropane, is a synthetic cyclic ether majorly produced by either the dehydrochlorination of propylene chlorohydrin or the indirect oxidation of propylene. It is a clear, volatile liquid that is flammable, non-corrosive to metals, and soluble in water and alcohol. As a result, it is extensively utilized in the automotive, electronics, textile & furnishing, and as a precursor in the production of various chemicals. It is also applied as a fumigant for controlling bacterial contamination and insect infestations in soil and packaged food products. Besides this, minor quantities of propylene oxide are used for sterilizing medical equipment.

The market growth can be attributed to the expanding applications of propylene

oxide in various end use industries. For instance, polyether polyols and propylene glycol ethers produced from propylene oxide, are widely utilized in the textile, automotive, construction and aerospace industries. It is also used as a transition fluid in tissue processing for transmission electron microscopy (TEM). Apart from this, changing lifestyles, burgeoning food and beverage (F&B) industry and the growing health consciousness among individuals are escalating the demand for packaged food products, which, in turn, is contributing to the market growth.

Read the full report : <https://www.researchandmarkets.com/r/e4dnbo>

If you want your report abstract to be published please contact [info@chemicalmarket.net](mailto:info@chemicalmarket.net)





# Printing Inks and PTFE: Are You Ahead of The Evolving Regulatory Environment?

**M**UTTENZ, December 19, 2022 - New and stricter regulations on the use of certain chemicals can pose significant operational challenges for industry. In printing inks, the use of PTFE is being impacted by new PFOA regulations in Europe as well as Japan and the United States.

Valued at almost 20-billion USD annually in 2020, traditionally, printing inks were used for the most part in newspaper and magazine production, but this has expanded exponentially into the packaging industry in a bid to powerfully brand and market products, making them attractive to customers. As the flexible and customized packaging landscape evolves the printing ink market will need to change with it.

Part of this evolution is already underway and it's in response to more stringent regulatory frameworks on the use of various chemicals, inorganic solvents and heavy metals. Many in the printing industry know that PTFE historically was used as an additive at times by certain market sectors, for example, to protect packaging labels as products move through supply chains and onto shelves.

Yet, PTFE's reported relationship with PFAS related compounds, in particular PFOA, classified by some as Persistent Organic Pollutants, means that PTFE is coming under scrutiny and is increasingly subject to regulations across the globe. PFOA-related compounds have been regulated in the European Union since July 2020. Since July 5th, 2022,

there has been a 25 parts per billion limit of PFOA in place while in February 2023 a 25 parts per billion limit of C9-C14 of PFCAs will come into force. As well, the European Commission has released a Restrictions Roadmap as part of the Chemicals Strategy for Sustainability. This is a key part of the EU's zero pollution ambition under the European Green Deal. The Restrictions Roadmap lists PFAS; of which PTFE can be a source as being in the current pipeline for further restriction.

This year Japan's environment agency approved a ban on the manufacture, import and use of 56 PFOA-related compounds under the country's Chemical Substance and Control Law while just this September, the U.S. EPA released a proposed rule seeking, for the first time, to designate PFOAs and PFOS as "hazardous substances" under the federal Superfund law. This comes as multiple states petition for federal bans on other chemicals.

Companies should consider replacing traditional PTFE with PTFE-free alternatives. At Clariant, we know that modern printing demands flexible, high-quality solutions which is why we have developed PTFE-free alternatives that play a crucial role for surface variations within inks and coatings, such as scratch resistance, modification of slip properties, matting effects and more.

In addition to Polyethylene wax-based additives like Ceridust® 3610 and Ceridust 3030 which have shown success in

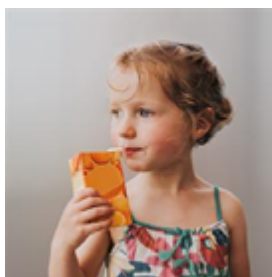
replacing PE/PTFE blends, Clariant also offers additives based on renewable and sustainable raw materials, with a continued focus on performance and cost optimization.

Made from a renewable resource, our Ceridust 8330 renewable polymer/wax compound is one of these alternatives and can replace PE/PTFE additives in printing inks. It achieves more with less additive, is sustainable and compliant to upcoming legislation requirements.

It's a revolutionary, predominantly bio-based additive for all kind of printing inks with a mean particle size diameter of approximately 5.5 µm. Its mix of flexible, yet tough polymeric characteristics makes it a powerful rub resistance additive for all types of ink systems. With superior rub resistance properties versus PTFE containing material, even higher mechanical resistance can be achieved. This lengthens the durability of finished goods which look more beautiful.

**The uncertainty around the details of regulatory changes that are to come, at the same time as knowing they will come, can make it challenging for businesses to address these issues. With an advanced, forward-looking portfolio of bio-based, sustainable additives for printing inks, paints and coatings, Clariant takes a proactive, pro-safety and pro-environment approach to help customers navigate this uncertain and fast-changing landscape.**

Source : Press Release



## SK TO SHOWCASE 40 CARBON REDUCTION TECHNOLOGIES AT CES 2023

- SK and its partner companies will exhibit at CES 2023 products and technologies, such as electric vehicle (EV) batteries and next-generation energy sources, that aim to reduce carbon emissions
- Technology will reinforce the steps SK Group is taking to meet its goal of reducing 200 million tons of carbon emissions by 2030

SEOUL, South Korea, December 20, 2022, SK Group, South Korea's second-largest conglomerate, will showcase at CES 2023 a broad range of products and technologies from its companies and partners designed to help cut global carbon emissions. CES 2023, a global technology event, will be held January 5-8 in Las Vegas.

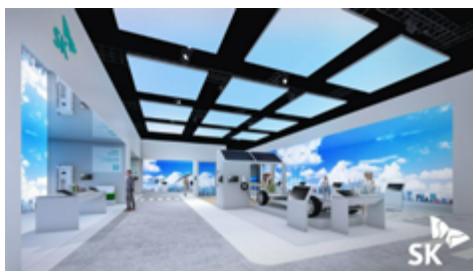
SK's booth will include products and technologies from eight of its companies – SK Inc., SK Innovation, SK E&S, SK Hynix, SK Telecom, SK Ecoplant, SKC and SK Biopharmaceuticals – along with 10 U.S.-based partner companies. The exhibit will reinforce SK's commitment to investing in and growing sustainable businesses.

### Action: Moving Toward a Carbon-Free Future Together

SK's 2023 CES exhibit builds upon the commitment SK Group made at CES 2022 of reducing carbon emissions by 200 million tons by 2030, or 1% of the global carbon reduction targets needed

to address climate change. This year's exhibit will also encourage others to take action towards creating a more sustainable future.

The SK booth will be divided into two segments – the first which tangibly emphasizes how the world will be negatively impacted by extreme environmental issues if individuals and businesses do not address climate change. Viewers will then be guided into a second segment of the exhibit that will display how future cities can thrive if built around sustainable technologies. This segment will be broken into several zones including: Clean Mobility, Zero Carbon Lifestyle, Waste to Resources, Air Mobility and Future Energy.



"We've designed the SK exhibition hall in a way that visitors can clearly compare and experience the two futures that people on Earth might face when they actively engage in carbon reduction activities and when they do not," said Hyunho Son,

Vice President of Strategy Support Team for the SK SUPLEX Council, a coordinating body across SK companies.

### The Companies and Technologies

The carbon reduction technologies and products that SK and its partner companies will showcase span a wide range of applications including: electric vehicle (EV) batteries, renewable energy, high-efficiency semiconductors, waste-to-energy technology, carbon capture, utilization and storage (CCUS), nuclear small module reactors (SMR), urban air mobility (UAM), and advanced healthcare technology.

For 2023 CES, all of the participating SK companies and partner companies will

come together with a goal of providing visitors a chance to experience how they are leading the charge towards a more sustainable, carbon-neutral future.

"We see achieving 'Net Zero' as providing new momentum in the era of 'energy transition,'" Son said. "At this year's CES, we will demonstrate the strides our operating companies have made in R&D and business competitiveness as they further develop eco-friendly technologies and solutions."

Source : SK Innovation

## UMICORE AND NANO ONE ENTER INTO JOINT DEVELOPMENT AGREEMENT FOR BATTERY MATERIALS PROCESS TECHNOLOGY

Umicore, a circular materials technology company, and Nano One® Materials Corp. ("Nano One"), a clean technology company, announce the signing of a non-exclusive Joint Development Agreement (JDA) on production process technologies for cathode active materials (CAM) for lithium-ion batteries. Under the agreement, Umicore will evaluate Nano One's patented M2CAM® One-Pot process technology with the intention to integrate it with Umicore's proprietary process technology for the production of high nickel NMC (nickel, manganese, cobalt) CAM. With the agreement both parties aim to leverage their respective technologies and know-how to further increase the throughput rate while reducing the costs and environmental footprint of CAM production.



Dr. Stephen Campbell, CTO of Nano One, said “With Umicore, we share a common goal to improve the environmental footprint, cost, and performance of lithium-ion batteries, through materials and process innovation. We are aligned with emerging global imperatives to create secure, resilient, and long-lasting supply chains. We look forward to developing an enduring collaborative partnership with Umicore, building on our common strengths and combined know-how.”



**“Innovating for a sustainable future is at the core of our business, both through organic developments and by forging research partnerships or jointly developing technologies with third parties. Our development agreement with Nano One allows us to study the feasibility of their technology with the potential and ambition to further decrease the carbon footprint and costs of CAM production. We look forward to fostering a collaborative working relationship with the Nano One team.” Yves Van Rompaey, Senior Vice President Corporate Research and Development at Umicore**

Source : Umicore

## SPINOFF FROM ARGONNE-LED INNOVATION HUB OPENS NEW FRONTIER FOR BATTERIES

Research by the Joint Center for Energy Storage Research has enabled spinoff company Blue Current to develop a safe, solid-state battery that is ready for megawatt-scale manufacturing. JCESR is an Energy Innovation Hub led by the U.S. Department of Energy’s Argonne National Laboratory. An arm of Koch Industries has invested \$30 million in Blue Current to build its first pilot factory in Hayward, California. Blue Current’s target market is electric vehicles. Solid-state batteries, which contain solid electrolytes, are much less flammable than liquid batteries, potentially making them safer. But solid electrolytes face technical challenges.

A crystalline class of solids known as glass ceramics have good conductivity. But they lack the ability to stick to the chemically active materials in battery electrodes that store lithium ions. Another class of materials known as polymers is effective at sticking to electrodes. But they have low conductivity.

In 2015, as part of JCESR-sponsored research, Lawrence Berkeley National Laboratory addressed the shortcomings of glass ceramics and polymers by bonding them together. The resulting composite solid electrolyte demonstrated good conductivity and good stickiness. Inspired by the composite’s potential, Blue Current developed it further.

Since then, the company has refined its components and addressed technical challenges common with solid-state batteries. For example, to help solid electrolytes stick to electrodes, some companies add heavy metal plates and bolts that put battery cells under high

pressure. These fixtures increase manufacturing costs. Blue Current’s composite can maintain good contact with electrodes without the use of plates.

As part of rigorous safety testing, the company subjected its cells to harsh conditions that electric vehicles could encounter in the real world. Thermal runaway—an overheating event that can lead to fires—never occurred.

“JCESR creates and proves the ideas that eventually go commercial,” said George Crabtree, JCESR’s director and an Argonne senior scientist. “These are the riskier ideas that no investors would fund—and that companies are unlikely to pursue—because the outcome is so uncertain.”

**“The idea of using composites in batteries was new and unproven prior to the JCESR program,” said Kevin Wujcik, Blue Current’s Chief Technology Officer. “JCESR put resources behind composites because the materials had potential to address a market need for safe, solid-state batteries while solving important technical challenges.”**

JCESR’s science has also enabled the success of two other startups: Sepion Technologies and Form Energy.

Source : Automotive Technology

## INDIE LAUNCHES GROUND-BREAKING AUTOMOTIVE





## CONTROLLER FOR EXTERIOR LIGHTING APPLICATIONS

Indie Semiconductor an Autotech Solutions innovator, has announced its first system-on-chip for external automotive lighting. The new iND83080 is a highly integrated LED matrix controller that simplifies the design and reduces the cost of advanced, high-definition exterior lighting applications where individual LEDs are turned on and off to deliver pixel-level control. LEDs are becoming the predominant lighting technology in automotive applications due to their inherent power efficiency, high light intensity, increased lifetime and ruggedness, design flexibility and lower overall costs. Vehicle OEMs are increasingly deploying front lighting and turn signal implementations based on matrix-based LED designs that allow individual LEDs to be controlled independently. For front headlights, this enables highly controllable and precise illumination, and in combination with beam-forming creates an adaptive driving beam (ADB) that can accurately illuminate the path ahead, while minimizing the light that causes dangerous glare for oncoming drivers. Adaptive headlights are available on select vehicles in Europe and Japan, and earlier this year, the National Highway and Traffic Safety Administration (NHTSA) announced a ruling that permits automakers to add ADB for U.S. vehicles.

Delivering pixel-level LED management requires LED matrix control semiconductors. The iND83080 matrix controller SoC is specifically designed to provide pixel-level control for ADB, dynamic turn signal and dynamic positioning lighting applications. indie's differentiated SoC features modes that reduce data bus traffic to the lighting control unit by automatically generating on-chip pulse width modulation control ("Smart Mode"), as well as allowing the device to support two pre-programma-

ble modes ("Standalone Mode") without need for external control. On-chip integration of a high-accuracy, high-speed clock further simplifies system design, enables multi-chip synchronization and removes the need for external clock generation, thereby reducing component count.

**"Pixel-level control of matrix LEDs can enhance road safety and the overall driver experience," said Michael Wittmann, senior vice president of product marketing at indie Semiconductor. "Features such as ADB have been available to car buyers in Europe and Asia for a number of years and will soon become commonplace in the U.S. given the latest changes in federal regulations. By offering industry-leading performance and integration for automotive LED matrix deployments, indie's first SoC for external automotive lighting provides leading vehicle OEMs and tier one's significant flexibility, while speeding design and achieving substantial overall system-level cost savings."**

The iND83080 is sampling now, qualified for AEC-Q100 Grade 1, with evaluation kits available that combine the device with all necessary components to speed the rapid development and testing of advanced lighting prototypes.

Source : Automotive Technology

## MANASI TATA APPOINTED DIRECTOR ON BOARDS OF KIRLOSKAR'S JV COMPANIES WITH TOYOTA

Kirloskar Systems on Monday announced the appointment of Manasi Tata as director on the boards of its joint-venture companies, including Toyota Industries Engine, Kirloskar Toyota Textile Machinery, Toyota Material Handling India, and Denso Kirloskar Industries.

Her appointment comes after the untimely death of her father Vikram S. Kirloskar, former Chairman & Managing Director, Kirloskar Systems. His wife Geetanjali Kirloskar has taken charge of the company.

Manasi Tata, a graduate from the Rhode Island School of Design, US, is trained in Toyota manufacturing processes and the Japanese work culture, a press release from Kirloskar Systems said.

A fifth-generation scion of the Kirloskar empire, she holds art very close to her heart and her nonprofit, "Caring with Colour" leverages this passion of hers, works with government schools in three districts of Karnataka.

Source : The Economic Times

## BASF SELECTED AS STRATEGIC SUPPLIER OF HIGH-PERFORMANCE CATHODE ACTIVE MATERIALS



## FOR BATTERY MANUFACTURER PPES

- BASF TODA Battery Materials delivers first customized product in Japan for PPES's safe, secure and high-quality batteries
- Strategic collaboration enables both companies to further explore global growth opportunities for a more sustainable battery supply chain

BASF has delivered the first batch of nickel-cobalt-manganese (NCM) cathode active materials (CAM) via its majority-owned joint venture BASF TODA Battery Materials LLC (BTBM) to Prime Planet Energy & Solutions (PPES), a joint venture between Toyota Motor Corporation (Toyota) and Panasonic Holdings Corporation (Panasonic).

BTBM provided a newly developed product from its high-performance CAM portfolio for PPES's innovative battery cell solutions to serve the electric vehicle market. The first batch was produced at BTBM's Onoda site, one of the world's largest calcination facilities for CAM. BASF is further advancing its already announced expansion project at the Onoda site, which is planned to start production in the second half of 2024. Through the expansion, the annual CAM supply will be increased to up to 45 GWh cell capacity per year.

BASF and PPES have already been working together for several years. Combining PPES's industrial expertise with BTBM's deep manufacturing know-how, a tailor-made product has been developed to meet the requirements of higher power, longer life cycle and improved efficiency.

"This is a great joint achievement by the BASF and PPES teams in Japan and a powerful step for the growing cooperation between both companies," said Dr. Michael Baier, Senior Vice President,

BASF Battery Materials. "It fits well into BASF's strategy to develop CAM together with leading battery manufacturers in their respective home markets and expand the business for more growth globally."

**"PPES is committed to provide batteries and to offer a wide range of added value and solutions based on these vital energy devices for the sake of protecting the environment and resources of our precious planet," added Yasuo Ikeda, 65D Project Leader of PPES. "Together with BTBM, we have tackled many difficulties and developed a solution to serve our customers' needs for superior electric powertrain solutions. We are looking forward to continually strengthening our partnership with BASF."**

"We appreciate the seamless joint efforts with PPES, which have been very successful," said Masanobu Hibino, CEO of BTBM. "While working together with PPES in developing a customized solution, we have further broadened our product offerings. We are excited to support our customers' global growth plans in the fast-growing e-mobility market."

Source : BASF

## INEOS STYROLUTION INTRODUCES NEW BENCHMARK FOR

## WEATHER RESISTANCE FOR ITS LURAN® S

Frankfurt, January 4, 2023 - INEOS Styrolution, the global leader in styrenics, has today announced that it has improved its leading additive package for weather resistance. The new Luran S "SPF60" elevates the UV stabilisation of Luran S to an all new level.

Luran S provides all the product properties needed for a demanding outdoor application, e.g. in the automotive or construction industries. The ASA thermoplastic offers a high surface quality, good impact strength including enhanced colour deepness, when exposed to UV irradiation and heat, and an excellent chemical resistance.

**"SPF60", a new additive package specifically designed for Luran S, enhances the UV resistance even further. "SPF60" reveals its superior properties particularly with applications requiring high gloss surfaces. This is making Luran S SPF60 a material of choice for most demanding outdoor applications such as exterior trims, rear-view-mirrors or dual-design front grilles in the automotive industry.**

Nils Becker, Technical Product Manager EMEA, says: "I am excited to be able to offer our customers a new solution that makes their outdoor applications even more attractive than before. I am convinced that end users will appreciate the new solution a lot."

"SPF60" will be available in addition to the already existing "SPF30" additive package.

Source : Ineos



## FOR TREATMENT OF ALS, EDARAVONE RADICUT® ORAL SUSPENSION 2.1% APPROVED IN JAPAN

Mitsubishi Tanabe Pharma Corporation (Head Office: Chuo-ku, Osaka; Representative Director: Hiroaki Ueno; hereinafter, "MTPC"), a member of the Mitsubishi Chemical Group, announced today, that MTPC obtained the regulatory approval of RADICUT® Oral Suspension 2.1% (generic name: edaravone) for the treatment of patients with amyotrophic lateral sclerosis (ALS) from the Ministry of Health, Labour and Welfare on December 23, 2022.

RADICUT® Oral Suspension 2.1% contains the same active ingredient as edaravone for intravenous infusion (Japanese product name: Radicut® Injection 30 mg and Radicut® Bag for I.V. Infusion 30 mg) for the treatment of ALS.

RADICUT® Oral Suspension 2.1% is specifically formulated for patients with ALS and provides 5 mL dose, an oral dosing syringe once a day\*.

Prior to this approval, edaravone is solely administered via intravenous infusion in Japan. MTPC Group continues working tirelessly to develop the oral suspension formulation as a new treatment option for ALS patients in order to reduce the burden on ALS patients such as injection pain and outpatient visits. In the U.S., where the same oral suspension formulation of edaravone (U.S. product name: RADICAVA ORS®) was approved on May 12, 2022, RADICAVA ORS® has been highly evaluated for its benefits of reducing burdens associated with conventional injections and enabling oral and tube administration.

MTPC Group is providing edaravone oral suspension as a new treatment option that has reduced the burden on ALS patients.

**\*RADICUT® Oral Suspension 2.1% is taken daily for 14 consecutive days followed by a 14-day drug-free period for the initial treatment cycle. For subsequent treatment cycles, RADICUT® Oral Suspension 2.1% is taken for 10 days within a 14-day period followed by a 14-day drug-free period.**

Source : Mitsubishi

**TORAY ACHIEVES  
FURTHER ADVANCE  
WITH PMMA FIBER  
NANOSTRUCTURE  
CONTROL  
TECHNOLOGY  
BY CREATING  
ADVANCED FIBER  
THAT EFFICIENTLY  
ADSORBS PATHOGENIC  
PROTEINS IN BLOOD**

Tokyo, Japan, December 20, 2022 – Toray Industries, Inc., announced today that it has combined nanotechnology and fiber technology to create a

cross-shaped polymethyl methacrylate (PMMA) nanopore fiber that efficiently adsorbs pathogenic proteins in the blood.

**The company developed this fiber by employing its PMMA hollow fiber membrane spinning technology. Changing the nanopore size on the surface and inside the fiber makes it possible to control the types of protein that this material adsorbs. This could become a fundamental blood purification technology for a range of protein adsorption columns that cause diseases.**

The fiber's cross-shaped cross section has a larger surface area than fibers with round ones. This provides much better contact between the blood and fiber and significantly enhances protein adsorption efficiency.

Toray will push forward with efforts to develop and swiftly commercialize small, patient-friendly, high-performance adsorption columns for proteins.

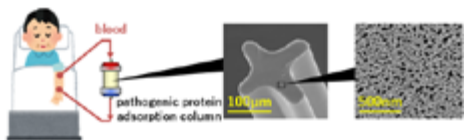
Toray is the only company in the world to have commercialized a PMMA hollow-fiber membrane artificial kidney for dialysis treatment. Its new nanopore fiber benefits from PMMA's good protein adsorption and biocompatibility.

Using the structural formation of a stereocomplex from two PMMA types entangled spirally during the spinning process to form the fiber shape, Toray made it possible for the fiber itself to





develop pores of several to dozens of nanometers. Depending on the pore size, large proteins cannot go inside the pores. If they are too small, they are not trapped. This enables selective adsorption of moderately sized proteins trapped in pores.



The fiber pore sizes are adjustable to the diameters of target proteins for a range of diseases. These include inflammatory proteins in sepsis, autoantibodies in autoimmune diseases, and causative proteins in chronic illnesses. Toray's technology is thus fundamental to developing disease-causing protein adsorption columns to purify blood.

Toray's cross-shaped cross section suppresses inter-fiber adhesion, increasing the surface area per volume and enabling highly efficient protein adsorption. For blood purification applications, higher capacity adsorption columns increase blood removal amounts from the body, which can be especially stressful for the elderly and children. The new fiber's highly efficient protein adsorption should contribute to compact, high-performance protein adsorption columns.

Toray will continue striving to materialize its corporate philosophy of contributing to social progress by delivering new value while attaining sustainable growth and helping people lead healthier, more secure lives.

Source : Toray

## ASAHI KASEI PHARMA OBTAINS APPROVAL TO MANUFACTURE

## AND SELL CRESEMBA™ CAPSULE 100 MG AND CRESEMBA™ INTRAVENOUS INFUSION 200 MG IN JAPAN

Asahi Kasei Pharma today obtained approval to manufacture and sell Cresemba™ Capsule 100 mg and Cresemba™ Intravenous Infusion 200 mg (generic name: isavuconazonium sulfate, development code: AK1820) in Japan for treatment of the fungal infections of aspergillosis, mucormycosis, and cryptococcosis.

Isavuconazonium sulfate was created as a new antifungal agent by Basilea Pharmaceutica International Ltd, Allschwil (Basilea) of Switzerland. Asahi Kasei Pharma obtained exclusive rights to develop and commercialize isavuconazonium sulfate in Japan in September 2016, and after advancing its development, applied for approval to manufacture and sell it in Japan in September 2021.

**In accordance with its mission “to sincerely care for each individual life and solve their unmet medical needs with a wealth of ideas and solid science,” Asahi Kasei Pharma aims to realize a society where “no one should have to give up doing what they love due to illness” by providing isavuconazonium sulfate as a new therapeutic solution for patients with fungal**

## infections.

Source : Asahi Kasei

## PUROLITE, AN ECOLAB COMPANY, OPENS NEW MANUFACTURING FACILITY IN KING OF PRUSSIA, PENNSYLVANIA

KING OF PRUSSIA, PA, US – (Dec. 5, 2022) Purolite, an Ecolab company, today celebrated the opening of its new pharmaceutical manufacturing facility in King of Prussia, Pa. The 74,000-square-foot plant, which includes an expected 75 new jobs, will produce ion exchange resins for vital healthcare development and pharmaceutical APIs to meet the growing demand for existing and future applications and therapies.

Gergely (GG) Sved, executive vice president and president of Global Healthcare & Life Sciences, was joined by state and local officials at a ribbon-cutting ceremony to open the new facility.

**“This expansion adds to Purolite’s multi-continent ion exchange production to further ensure the security of supply globally and demonstrates our commitment to supporting growing global demand for new healthcare applications and future drug development,” said GG Sved. “Purolite is now one of the fastest-growing global provid-**



## ers of ion exchange resins for the critical industries that helps protect people, planet and business health.”

“We are excited to open our facility in King of Prussia to enable our pharma and biopharma customers shortened lead times and security of supply to enable them to deliver life saving drugs. We are dedicated to ensuring continued

supply of high quality, innovative resin-based products to our customers that the Purolite team built its foundation on.” Said Hayley Crowe SVP and GM Purolite.

The new plant, the company’s fifth manufacturing facility globally, located at 3700 Horizon Boulevard in King of Prussia, is near Purolite’s headquarters. The facility has two new cleanrooms to manufacture active pharmaceutical in-

gredients (APIs), which will increase the company’s production of APIs by 67%. Purolite has more than four decades of experience manufacturing APIs, such as cholestyramine and sodium polystyrene sulfonate and excipients. These applications are vital to time-release formulas and provide the bioavailability necessary for medical treatments to address high cholesterol and heart disease.

Source : Ecolab

## CHEMICAL TECHNOLOGY

### PERSTORP SET TO SAVE MORE THAN ONE BILLION LITRES OF FRESH WATER YEARLY AT STENUNGSUND PLANT

Malmö December 19, 2022 - Sustainable solutions provider Perstorp is investing in a unique project that will allow it to use wastewater from a nearby municipal treatment plant for production operations in Stenungsund, Sweden. This will save 1.1 billion litres of fresh water per year.

The project will enable Perstorp to secure the future supply of water for the Stenungsund plant. It also fits with the company’s long term sustainability ambition to become Finite Material Neutral.

“This is an important development of core technology for Perstorp,” says Anna Berggren, Vice President Sustainability. “We plan to implement it at more sites around the world in the future in our drive to reduce freshwater consump-

tion. Fresh water scarcity is already a fact around the world. The chemical industry has a responsibility to reduce its use and find new solutions that can also support society as a whole.”

All Perstorp production plants use water for multiple purposes: as a solvent for chemical reactions, a carrier for products, a heat-transfer medium, and for cooling, for example. One way of reducing consumption of fresh water is to purify and recycle wastewater. The Stenungsund project will enable wastewater from the water treatment plant run by the municipality to be further purified and reused at the Perstorp Oxo production plant.



**The recycled water will also  
be used for production of  
renewable hydrogen via  
electrolysis for Perstorp’s  
game changing transition  
project Air, as well as for  
other strategic investments.**

**“This project is a key en-  
abler to combining business  
growth and sustainable de-  
velopment,” says Berggren.**

Project Air is an initiative to transform the chemical industry towards climate neutrality. Perstorp Group and partner Uniper will produce sustainable methanol for chemical manufacturing using circular production methods, reducing carbon dioxide emissions by about 500,000 tonnes per year. This is equal to the annual emissions of around 340,000 new cars running on fossil fuel.

Andreas Utbult, Global Technology & Investment, adds:

“This exciting water treatment and recycling project will involve close collaboration with several partners in the Stenungsund region. It exemplifies how Perstorp uses its technology expertise to transfer a sustainability vision into concrete investments.”

Source : Press Release



## AVIO AERO LAUNCHES HYBRID ELECTRIC TECHNOLOGY DEMONSTRATION PROGRAM IN EUROPE

- **Clean Aviation agreement reached awarding approximately €34M to consortium led by Avio Aero to develop AMBER demonstrator**
- **The demonstrator's electric motor to be powered by hydrogen fuel cells**

**R**IVALTA DI TORINO, Italy, December 15, 2022 – Avio Aero has launched a new technology demonstration program that continues to advance development of hybrid electric propulsion technologies for commercial aviation and supports efforts to make air transport more fuel efficient to reduce CO2 emissions.

The Clean Aviation Joint Undertaking of the European Commission has awarded approximately €34M million over four years to a consortium led by Avio Aero for the AMBER demonstrator in a recently finalized agreement.

Plans are to mature, integrate and validate key technologies necessary for a megawatt (MW)-class hybrid-electric propulsion system powered by hydrogen fuel cells. The AMBER demonstrator will study integration of hybrid electric components — including a motor/generator, power converters, and power transmission systems — with fuel cells for rig testing in the mid-2020s using Avio Aero's advanced Catalyst turbo-prop engine.

“We are proud to announce the launch of the AMBER hybrid-electric program, which aims to demonstrate the benefits of an innovative aircraft propulsion system coupling a turbine engine with a

fuel cell-powered electric motor. As this shows, we're looking to design, develop, and test breakthrough technologies to shape the future of more sustainable flight in Europe and we appreciate the collaboration with Clean Aviation to make this demonstrator possible,” said Giorgio Abrate, vice president of engineering for Avio Aero. “The recognition and awarding of our AMBER proposal by Clean Aviation confirms its strategic and technological value to support European Union ambitions to reach net-zero CO2 emissions from flight by 2050.”

Hybrid electric propulsion technologies can help improve engine performance, reducing fuel usage and emissions. The hybrid electric technologies Avio Aero and its parent company GE Aerospace are developing are also compatible with alternative fuels like Sustainable Aviation Fuel (SAF) and with advanced engine architectures such as open fan.

The Clean Aviation partnership with industry helps accelerate innovation of key technologies like electrification to meet these ambitions.

**“For the transformation towards climate neutral we must do more with less energy, and aviation is no exception,” Axel Krein, executive director of Clean Aviation. “Clean Aviation’s primary ambition is to drive a step-change in aircraft performance by radically boosting efficiency in aircraft and fleet performance. For regional aircraft, our goal is an improvement of at least 50% compared to a typical flight**

**today. The AMBER project, as one of our 20 daring new projects now underway, will play a key role in helping us to deliver this ambitious target.”**

The Avio Aero-led consortium consists of a total 21 members\* from Europe, including Avio Aero's European technology development network of universities and R&D centers. Other GE Aerospace sites in Europe, including in the Czech Republic, Germany, Poland, Turkey, and the United Kingdom will contribute to research of the engine, propeller, and electric powertrain systems.

H2FLY, a German-based company specializing in the development of hydrogen-electric power systems for aircraft, supplies the MW-class fuel cell system, along with the corresponding architecture, interfaces, and fuel cell controls. H2FLY is also responsible for the build-up of the MW fuel cell system as part of the powertrain validation and testing in collaboration with the project partners.

“The development of a megawatt-class hybrid-electric propulsion system for aviation marks an important step towards the realization of emission-free passenger aviation. We look forward to contributing to this development and sharing our expertise as a global technology leader in the field of hydrogen-electric aviation,” said Prof. Dr. Josef Kallo, co-founder and CEO of H2FLY.

Another key partner on the AMBER demonstrator is Leonardo, which will provide guidance on aircraft integration in the configuration of the hybrid electric propulsion system.

Source : Press Release





## SABIC ENABLES SCIENTEX GROUP IN DEVELOPING WORLD'S FIRST PP FLEXIBLE FOOD PACKAGING USING POST CONSUMER RECYCLED (PCR) OCEAN BOUND PLASTIC

- Premium brand instant noodle packaging made with 30% certified PCR plastic content launched in major retail outlets in Malaysia
- This value chain collaboration enables ocean bound plastic (OBP) to be successfully brought back into circular material stream for conversion to high-quality flexible packaging

SINGAPORE, MALAYSIA, December 21, 2022 - SABIC, a global leader in the chemical industry, collaborates with Scientex in the packaging value chain to enable the manufacturer to develop material for the world's first flexible food packaging made based on advanced recycled OBP, using SABIC® certified circular polypropylene (PP). The material is being used in a premium brand noodles packaging sold in Malaysia.

"We are proud to offer our customers circular solutions to reduce plastic waste that could otherwise end up in our rivers and oceans," says Abdullah Al Otaibi, General Manager, Engineering Thermoplastic & Market Solutions Business Unit for Petrochemicals at SABIC. "This flexible food packaging containing OBP connects with our TRUCIRCLE™ program of circular solutions designed to help protect our planet."

OBP is abandoned plastic waste found in areas up to 50 km inland from waterways that may eventually be washed into the ocean by rainfall, rivers or tides.

**"Thanks to this highly efficient collaboration with SABIC, we are able to bring the world's first advance recycled flexible PP food packaging to the Asian market, using circular OBP," states Paul Ng Kok Leong, Head of BOPP Film Division, Scientex Group. "This successful initiative demonstrates the feasibility of tackling the plastic waste issue through dedicated value chain collaborations and sets a milestone in shaping a circular plastics economy in Malaysia and across South East Asia."**

The OBP used in the project is recovered and converted to pyrolysis oil in an advanced recycling process. SABIC uses this oil as an alternative feedstock to produce certified circular PP polymer for further processing to BOPP film. Scientex then manufactures and prints the noodle packs from this film. The entire chain from the management of the collected OBP to the final packaging is seamlessly accredited under established certification[1] regimes.

With a mass balance accounted OBP content of 30%, the certified circular PP from SABIC performs the same way as incumbent fossil-based virgin PP and could be used as a direct drop-in alternative in this flexible food packaging ap-

plication, without the need to change its existing assets and processes.

SABIC's certified circular polymers form part of the company's TRUCIRCLE portfolio and services for circular solutions. The offering also includes design for recyclability, mechanically recycled products, certified renewable polymers from bio-based feedstock and closed loop initiatives to recycle plastic back into high quality applications and help prevent valuable used plastics from becoming waste.

Source : Press Release

## TORAY DEVELOPS ECO-FRIENDLY PET FILM OFFERING EXCELLENT APPLICABILITY AND ADHESION FOR WATER-BASED AND SOLVENT-FREE COATINGS IN PRINTING, MOLD RELEASE, AND ADHESIVE PROCESSING

Tokyo, Japan, December 15, 2022 – Toray Industries, Inc., announced today that it has developed a polyethylene terephthalate (PET) film that combines excellent applicability and adhesion for water-based and solvent-free coatings and can eliminate solvent-derived carbon-dioxide emissions. The company looks to produce the film at



a domestic plant by end-March 2024 to help popularize eco-friendly film products for which decarbonization during manufacturing is desirable. These items include release, adhesive, printing, packaging, and automotive films.

The environmental impacts of organic solvents in regular PET film processing have become problematic in view of global warming becoming a prime issue in recent years as a result of air pollution and carbon dioxide emissions.

This situation has driven the development of coatings free of such volatile organic compounds (VOCs) as toluene, xylene, and ethyl acetate. Such coatings eliminate carbon dioxide emissions derived from solvents. Advances include coatings in which water replaces these compounds in mold release agents, adhesives, and printing inks, as well as solvent-free versions employing monomers to dilute ingredients. Still, VOC-free coatings have downsides. They include appearance defects such as peeling when applied on PET films. Other issues are poor adhesion between coated layers and PET films after drying, resulting in lifting and peeling that reduces durability.

Toray's new PET film has both good applicability for water-based paints and good adhesion to films after it is dried. This was achieved by forming an ultra-thin layer with nanosized dispersion of hydrophilic components with high affinity to water and hydrophobic components with high affinity to the resin on the surface of the film.

This film has demonstrated outstanding applicability and adhesion for an array of water-based offerings from paint manufacturers. Coating and adhesion is also excellent with solvent-free coatings, which are also VOC-free.

**PET film processing generally emits carbon dioxide from coating and dry-**

**ing printing inks, release agents, and adhesives, as well as from consuming electricity in curing, releasing organic solvents into the atmosphere through incineration, and disposing of solvent effluents and waste.**  
**The film makes it possible to use VOC-free paints and thus eliminate the carbon dioxide emissions associated with organic solvents.**

Toray's new technology is also compatible with Ecouse®Lumirror™ offerings employing recycled PET materials. Ecouse is a brand for recycled materials and products that Toray began rolling out worldwide in 2015. Lumirror is a biaxially oriented polyester film. The company can help lower environmental impact by providing total solutions for PET film manufacturing through processing for printing, mold release, adhesion, and other coatings.

Under the Toray Group Sustainability Vision and "TORAY VISION 2030", the company helps to resolve environmental, resources, and energy issues through business. It will continue to develop advanced materials to materialize its corporate philosophy of contributing to social progress by delivering new value.

Source : Toray

- TEGO® Powder Aid D01 reduces the melt viscosity of powder coating formulations
- Supports gloss development and DOI
- Versatile use for systems with high PVC (pigment-volume-concentration)

Essen, Germany. Evonik's Coating Additives Business Line has developed a new, multifunctional polymer additive for powder coating formulations: TEGO® Powder Aid D01 makes the formulation easier to disperse during extrusion by promoting pigment wetting and effectively reducing melt viscosity.

The lower melt viscosity also leads to better degassing, which aids flow and leveling as the formulation cures and prevents pinholes in the coating. Thus, the new additive optimizes gloss development and ensures better DOI (Distinctness of Image) on the coating surface.

## ONE ADDITIVE, MANY FUNCTIONS

Another plus point of TEGO® Powder Aid D01 is its particularly versatile applicability in formulations with inorganic fillers and pigments, along with organic pigments including carbon black.

"Our new product thus offers a wide range of benefits for formulators who desire one multifunctional additive for various powder coating systems," says Maximilian Morin, head of the Industrial & Transportation Coatings market segment. "TEGO® Powder Aid D01 generates a large effect in small amounts and acts as a synergist with other additives."

## REDUCTION OF MELT VISCOSITY

TEGO® Powder Aid D01 also plays to

**NEW ADDITIVE  
TEGO® POWDER  
AID D01 IMPROVES  
POWDER COATING  
FORMULATIONS IN  
MANY WAYS**



its strengths in HAA curing systems for powder coatings with water being formed as a by-product. "The challenge during crosslinking is, that the water needs to escape from the system. This can result in pinholes or small craters in the film," explains Bernhard Resch, Scientist in Market Segment Industrial & Transportation Coatings.

To avoid this, the low melt viscosity is particularly important: homogenization of the ingredients and leveling of the surface is improved. "TEGO® Powder

Aid D01 prevents pinholes by increasing the degassing threshold and enables the application of thicker coating films," says Resch.

## DURABLE, RECOATABLE COATINGS

Powder coatings containing TEGO® Powder Aid D01 also show comparable resistance to weathering, making this additive suitable for use in exterior applications. So-called overbake yellowing, even at elevated temperatures, is

manageable. The new additive imparts these positive properties to powder coating formulations without containing surface-active waxes. As a result, overcoating is also possible without any problems.

"TEGO® Powder Aid D01 is a new addition to the additive portfolio from Evonik's Coating Additives Business Line, intended to be extruded into powder coating formulations," says Resch.

Source : Evonik

## MERGERS AND ACQUISITIONS

### WIND ENERGY FROM THE NORTH SEA: EVONIK AND ENBW SIGN LONG-TERM CONTRACT FOR POWER SUPPLY FROM OFFSHORE WIND FARM HE DREIHT

- PPA covers 25 percent of Evonik's electricity needs in Europe
- 100 megawatts of offshore wind energy as a powerful lever to reduce CO2-emissions
- Evonik provides technology for offshore wind turbines

Essen and Karlsruhe, Germany. Evonik is becoming less dependent on fossil fuels: The specialty chemicals company signed a long-term power purchase agreement (PPA) for wind energy with the energy supplier EnBW. The

PPA provides Evonik with

100 megawatts (MW) of electricity per year from the new 900-MW He Dreiht wind farm in the German North Sea. This agreement alone will enable Evonik to cover around a quarter of its electricity needs in Europe with renewable energy from 2026 on. EnBW will supply the green electricity over a period of 15 years. Since chemical production requires a constant energy supply, Evonik will compensate for fluctuations of the wind energy feed-in through its own balancing group management.

"Together with EnBW, we are accelerating the implementation of our ambitious sustainability strategy. We are becoming less dependent on fossil fuels and their price fluctuations," says Christian Kullmann, CEO of Evonik. "Clearly, the less fossil and more green energy we use, the better the future opportunities for our German and European sites will be." The PPA with EnBW is just the beginning. Evonik is working on other agreements for green electricity purchased directly from pro-

ducers to increase the company's share of renewable energy usage. "The green electricity from the new offshore wind farm is a very important lever for our goal of reducing greenhouse gas emissions," says Thomas Wessel, responsible for sustainability on the Executive Board. "Today, 27 percent of Evonik's externally purchased electricity worldwide already comes from renewable sources. Implementing the PPA with EnBW significantly increases this share to more than 40 percent."



At the same time, the co-operation reduces Evonik's Scope 2 emissions (electricity from external sources) by 100,000 metric

tons of CO2 per year. The company recently announced the goal of reducing its Scope 1 and Scope 2 emissions from the current 6.5 million tons to 4.9 million tons by 2030. About one-third of this net reduction will be achieved by switching to renewable energy sources.

The He Dreiht wind farm will be built





about 90 kilometers northwest of Borkum and 110 kilometers west of Helgoland. It is scheduled to start operating at the end of 2025. In 2017, EnBW won the first tender in Germany with a zero-cent bid and thus initiated a new trend in the offshore market. The subsidy-free offshore wind farm is currently one of Europe's largest energy transition projects. For the first time, 15-MW turbines will be deployed.

As a central instrument of the energy transition, PPAs are becoming increasingly important: "We can only achieve the energy transition together. PPAs are a tool for this. They help companies to achieve ambitious climate targets and enable developers of renewable energy projects to obtain reliable financing. This way, the economy and the climate both benefit," explains EnBW management board member Georg Stamatiopoulos. "With Evonik, we have gained another strong partner for our He Dreiht offshore wind farm," he adds. EnBW will make the final investment decision on the offshore wind farm in 2023.

Evonik offers a range of products for offshore wind turbines. Its crosslinkers ensure highly robust and long-lasting rotor blades. Silica and silanes strengthen the bonding of glass fibers and resin. Structural foam from Evonik will make the design of future rotor blades even more efficient at low weights. Coating additives and polyurethane foam parts protect wind turbine blades rotating at speeds of up to 400 kilometers per hour through rain, salt particles, and hail. Synthetic base oils from Evonik provide cost-effective lubrication of the turbines' gearboxes and protect them from wear and corrosion.

Source : Evonik

## BRASKEM ACQUIRES TAULMAN3D

## EXPANDING ITS PORTFOLIO OF MATERIALS FOR ADDITIVE MANUFACTURING APPLICATIONS

PHILADELPHIA, Pa. & LINTON, Ind. - January 4, 2023 - Braskem (B3: BRKM3, BRKM5, and BRKM6; NYSE: BAK; LATIBEX: XBRK) the largest polyolefins producer in the Americas, as well as a market leader and pioneer producer of biopolymers on an industrial scale, today announced the acquisition of taulman3D, a leading 3D filament supplier of nylon, recycled PETG, and PET filaments to aerospace, automotive, healthcare, industrial, government and higher education professionals worldwide. The acquisition of taulman3D is a perfect complement to Braskem's existing portfolio of next-generation filaments (Polyethylene (PE), Polypropylene (PP), Carbon Fiber, Glass Fiber & Recycled Polymers), pellets, and powders designed specifically for 3D printing applications.

Founded in 2012, taulman3D is trusted by thousands of professionals around the world and offers a wide portfolio of filaments and polymers designed to address specific and varying customer applications. taulman3D products are available worldwide, through a variety of exceptional distributors on 6 continents. taulman3D's headquarters, research, and development as well as production and distribution facilities are in Linton, Indiana.

**Jason Vagnozzi, Global**

**taulman3D**  
High Strength Materials



**Commercial Director of Additive Manufacturing, Braskem commented, "Braskem's acquisition of taulman3D brings a high-quality 3D filament producer with a globally diversified client list and a highly complementary product portfolio. With projections for the 3D printing industry expected to grow from \$15 billion today to \$78 billion by 2030 - growing at an estimated 20% CAGR - we see enhanced opportunities to serve this rapidly growing demand. Today's acquisition doubles Braskem's market share in the additive manufacturing market and further accelerates our growth strategy."**

Zach Lichaa, taulman3D President stated, "We're extremely proud to have built one of the leading 3d printing businesses in the world over the last decade, with private and public sector clients in dozens of countries. Braskem's significant research and development resources and their world-class production teams will enable us to serve our clients with even greater focus and product innovation as additive manufacturing becomes increasingly engrained in global supply chains."

Source : Braskem



## HOHENSTEIN OPENS NEW TESTING LAB IN SHANGHAI

**B**ÖNNIGHEIM (ivs/cs) With the opening of another laboratory in Shanghai, China, testing service provider Hohenstein is growing its international network. Starting in the first quarter of 2023, the new textile laboratory in the Pudong District industrial park will supplement the Hong Kong laboratory capacity with testing and on-site inspection services in the hot spots of textile production.



Hungary, Hong Kong, Bangladesh, India and now Shanghai, offer shortened turnaround and sample transport times. In some locations, Hohenstein offers sample pick up services from the customer to the lab for testing. Mecheels emphasizes, "Hohenstein is also aiming for customer proximity. Our mission

is responsiveness and flexibility for our customers."

Source : Chemical Market

**The new laboratory will offer suppliers, manufacturers, brands, and retailers a wide range of testing service on textile quality. "Hohenstein stands for innovation and quality. We are very pleased to celebrate another milestone in our international expansion, while following these principles," said Prof. Dr. Stefan Mecheels, who is the third generation to lead the family-run company. "No matter where the examinations, tests and analyses are carried out, all our laboratories work with state-of-the-art equipment and the same high standards."**

The laboratory locations in Germany,

## AIR LIQUIDE STRENGTHENS ITS LONG-TERM RELATIONSHIP WITH KUMHO MITSUI CHEMICAL (KMCI) IN SOUTH KOREA

**A**ir Liquide has signed a long-term contract to supply Kumho Mitsui Chemical (KMCI), a world leader in the chemical industry, with additional hydrogen and carbon monoxide in South Korea's Yeosu National Industrial Complex, where Air Liquide operates four production units. This contract will enable Air Liquide to



support KMCI's additional expansion of 200,000 tons per year production of methyl diphenyl diisocyanate (MDI). This isomer is used in the manufacture of polyurethane for high-tech materials and insulation.

Air Liquide will supply additional hydrogen and carbon monoxide to KMCI for its 50% expansion of methyl diphenyl diisocyanate (MDI) production with operations commencing in 2024. To supply KMCI, Air Liquide will leverage its fourth hydrogen and carbon monoxide unit in the Yeosu complex. This latter is coupled to a CO2 recycling facility installed this year.

**With this new partnership, both Groups reinforce their long standing relationship. Air Liquide's first agreement with KMCI was signed 20 years ago in Yeosu. Since then, Air Liquide has significantly developed its industrial footprint in the Yeosu basin, culminating in the design and construction of a fourth state-of-the-art, highly efficient hydrogen and carbon monoxide plant. This unit is integrated with the three other plants with a 40 km**

**pipeline supply network in Yeosu to ensure the highest level of safety, reliability, efficiency, and flexi-**



## bility to its customers.

François Abrial, Member of the Air Liquide Group's Executive Committee supervising Asia Pacific, said: "With this new contract, we are honored to extend our long-term relationship with KMCI, a 20-year strategic collaboration that has enabled us to steadily build our footprint in Yeosu, a major industrial complex in South Korea, to accompany KMCI's continued growth."

Source : Air Liquide

## LINDE BUYS OUT STAKE IN ONE OF THE LARGEST U.S. INDEPENDENT PACKAGED GAS DISTRIBUTORS

Working, UK, January 6, 2022 – Linde (NYSE:LIN; FWB:LIN) announced it has acquired the remaining interests in nexAir, LLC, one of the largest independent packaged gas distributors in the United States with 2022 sales of approximately \$400 million.

Linde's wholly owned subsidiary Linde Gas & Equipment Inc. (LG&E) has held a minority interest in nexAir since 2012. LG&E has now purchased the remaining 77.2%. The acquisition complements Linde's existing packaged gas business and expands its footprint in a core and fast-growing geography across the southeastern United States.

**"This consolidation is consistent with our business strategy of increasing network density and reinvesting in opportunities that meet the investment criteria," said Ben Glazer, President of LG&E. "We look forward to further strengthening our presence in the southeastern U.S.**

**while serving our customers with the same level of reliability and quality that they have come to expect."**

Source : Linde

## THE DEVNYA SITE IS THE LARGEST EUROPEAN SODA ASH PLANT, MEETING THE HIGHEST ESG AND TECHNOLOGICAL STANDARDS

Solvay Sodi, a joint-venture between Solvay and Sisecam, is hosting an event to celebrate the 25th anniversary of its presence in Devnya, Bulgaria, where considerable investments turned the plant into a global reference point for the soda ash and sodium bicarbonate industry.

The Solvay event will be attended by Mr. Rumen Radev, President of the Republic of Bulgaria; Mr. Nikola Stoyanov, Minister of Economy and Industry in Bulgaria; Mr. Frédéric Meurice, Ambassador of Belgium; other representatives of the government, Solvay leadership and employees, and other guests.

The celebration ceremony will highlight the major investments made to modernize, grow and diversify the production while improving the environmental footprint of the plant including 24% water savings achieved in 2021. Since November 2022, 20% of the greenhouse gas emissions related to energy production have been cut thanks to biomass co-firing and further CO2 emission reductions will be achieved in the coming years with the recently announced Devnya Energy project to power the plant with more non-fossil fuels.

**"We are proud of what has been achieved at our Devnya soda ash plant over the past twenty five years, and we will keep raising the bar," explained Ilham Kadri, Solvay CEO. "Devnya plays a key role in our soda ash business and we'll continue investing in its growth and in its decarbonization. We aim at serving our valued customers in a sustainable, reliable and competitive way."**

"Solvay Sodi is one of the biggest industrial companies in Bulgaria and actively supports local projects in the field of education, culture and healthcare," added Spiros Nomikos, Solvay Sodi CEO. "In order to ensure our presence in the next decades, we are working on the implementation of an ambitious energy transition roadmap to reduce our CO2 emissions by at least -30% by 2030. I'm convinced we will succeed in all this with the great support of our partners and employees."

"Thanks to the tireless management, the application of sustainable management models and the hard work of all employees, we can all be proud that Solvay Sodi is the largest soda ash plant in Europe," said Rumen Radev, President of Bulgaria. In his greeting, the head of state noted the company's high ambitions and its drive for improvement, as well as the fact that it is an example of implementing green policies. "We value your work and support your efforts," added the president.

Source : Solvay





# CJ Biomaterials Develops its First Consumer Brand Application, a Cosmetic Container Made with Bio-Sourced Materials

- CJ Olive Young to use polyhydroxyalkanoate (PHA) and polylactic acid (PLA) to make cushion container for popular "WAKEMAKE" brand in collaboration with CJ CheilJedang
- Company enters beauty market with alternative packaging solution to ABS



WOBURN, Mass., Dec. 22, 2022 /PRNewswire/ --

CJ Biomaterials, Inc., a division of South Korea-based CJ CheilJedang and a primary producer of polyhydroxyalkanoate (PHA), has successfully developed cosmetic packaging for CJ Olive Young, a market-leading health and beauty retail chain in Korea. This new cosmetic case uses CJ Biomaterials' amorphous PHA technology in combination with polylactic acid (PLA) and will be sold under Olive Young's popular private brand, WAKEMAKE. Launched in Korea on December 21st, the 'WAKEMAKE Water Velvet Vegan Cushion' uses vegan cosmetic ingredients and eco-friendly bio-based packaging. CJ Olive Young has 1,200 stores across Korea and a global network in 150 countries.

PLA has experienced significant growth as a bio-based material in a broad range of finished product applications and is currently the most widely used industrial compostable material in the world, but it has certain limitations. Blending amorphous PHA in PLA leads to significant improvements in the mechanical properties of PLA, such as toughness

and ductility leading to improved impact resistance and the creation of elegant shapes. CJ Biomaterials' amorphous PHA is a softer, more rubbery version of PHA that offers fundamentally different performance characteristics than the crystalline or semi-crystalline forms that currently dominate the PHA

market.

The 100% bio-sourced solution of amorphous PHA and PLA materials were applied to the entire outside of the WAKEMAKE container, replacing acrylonitrile butadiene styrene (ABS). Some developed countries and leading cosmetic brands are actively making efforts to replace ABS, a petroleum-based, non-biodegradable plastic that is currently widely used in cosmetic containers. This is the right time to introduce an eco-friendlier package.

**"This is an important milestone for CJ Biomaterials, and we expect that the application of bio-based materials in the consumer goods market will expand beyond the release of the WAKEMAKE cushion," says Seung-Jin Lee, Head of**

**the Biomaterials business from CJ CheilJedang. "We will widely promote the use of PHA in various markets, as it is an eco-friendly material that is effective for industrial-scale use. We are proud that our PHA products—which are derived from nature and return to nature—are helping to meet the growing demands from brands and consumers for more environmentally friendly products."**

Today's announcement caps the end of a successful year for CJ Biomaterials. Earlier this year, the company announced commercial-scale production of PHA following the inauguration of its production facility in Pasuruan, Indonesia, becoming the only company in the world that can produce aPHA at scale, which includes CJ Biomaterials' first product under its new PHACT™ brand, named PHACT A1000P. The company also expanded its biomaterials business by establishing relationships with global organizations, including NatureWorks, Yuhan-Kimberly, the ACCOR hotel chain, and the makeup brand Banilla Co., which plans to launch cosmetics with containers made from bio-sourced materials in early 2023.

Source : PRNewswire



# Si Group Launches Digital Portal for Global Performance Additives Portfolio

THE WOODLANDS, Texas, Dec. 20, 2022 /PRNewswire/ -- SI Group, a leading global performance additives company, has launched a product portal to improve and enhance its customers' product selection experience. The new online solution will transform the customer journey, simplifying product identification and enabling faster access to key product information. The new digital portal is available at <https://portal.siigroup.com/>.

The product portal contains key SI Group offerings across the wide range of end markets it serves including fuels & lubricants, polyolefins, elastomers, and coatings. Customers can view SI Group's portfolio, filtering by industry, application, or function to rapidly identify the products they need. Key resources such as technical data sheets, typical characteristics, and safety data sheets are read-

ily available to allow for a streamlined product selection and onboarding experience. The portal also has functionality for customers to order a sample or request a quote for their pack size and volume requirements.

The adoption of this cutting-edge platform reflects SI Group's drive to satisfy changing market dynamics. By meeting demands for digital channels-to-market serving the chemicals industry, SI Group is enhancing the customer journey and connecting them with the products they need to solve global challenges.

**"With the new portal, it will be easier than ever for customers to do business with SI Group and quickly identify the solutions they**

**need," said Joey Gullion, Chief Commercial Officer at SI Group. "SI Group's adoption of this online portal reflects our continued commitment to understanding and meeting customer demands directly, as well as providing top-quality performance additives."**

This launch represents SI Group's continuing journey to cement itself as the global performance additives powerhouse, expanding its presence in the digital marketplace and serving customers' growing needs across the chemicals industry.

Source : PRNewswire

# Vipul Organics Receives Iso 45001:2018 Certification For Occupational Health And Safety Management System

Vipul Organics Limited, the BSE listed (VIPULORG / 530627) leading Specialty Chemicals company in the pigments and dyes segment, has received the ISO 45001 Certification for all three manufacturing facilities at Palghar, Ambernath and Tarapur. The ISO 45001 Certification is for those organizations that are serious about improving employee safety, reducing workplace

risks and for creating better and safer working conditions.



"A healthy and safe workforce is the one which performs optimally. Today the 350 strong employee pool of Vipul Organics is one happy big family and

we are committed to providing the best working conditions for them. In this context, the ISO 45001:2018 certifica-

tion becomes very important and showcases the importance that we pay to the health and safety of our employees", says Mr. Mihir V. Shah, Executive Director, Vipul Organics Limited.

**ISO 45001:2018 is the world's first international standard on occupational health and safety (OH&S) management, containing agreed good practices from across the world. The pri-**



**mary focus of implement-  
ing an OH&S management  
system is to prevent any  
kind of work-related inju-  
ries, illness or loss of life.  
Beyond protecting workers,  
this can lead to better work-**

**force morale, improved  
products or services and a  
stable revenue flow.**

Vipul Organics has always sought to create an environment that supports and encourages employees wellbeing, personal growth, health and safety and

a high quality of life. The fact that Vipul Organics values its employees and looks out for them was showcased as part of its 50th anniversary celebrations, The company also rolled out the Employee Stock Option Scheme, earlier this year.

Source : Chemical Market

## Heubach Colorants India Limited Takes A Big Step In Its Sustainability Journey

Navi Mumbai, India, December 15, 2022 - Heubach Colorants India Ltd, a leading producer of pigments and pigment preparations, will be investing in renewable energy projects to power its sites in Maharashtra and Tamil Nadu. Upon commercialization of these projects, more than 65% of the energy for its Roha and Cuddalore sites will be supplied by renewable sources. The investment process is expected to close after customary reviews in the coming weeks.

Bharath Sessa, Managing Director of Heubach Colorants India Limited, said, "Heubach Colorants India Ltd is well aligned with India's net-zero carbon emissions goal, and we are committed to powering our growth through renewable sources of energy. Both of our projects are expected to start commercial

operations by September 2023 and will aid in reducing our manufacturing carbon emissions by over 12 tons per year."

**The Heubach group is com-  
mitted to various initiatives  
to achieve its sustainabil-  
ity goals and transition to  
sustainable manufacturing.  
Thomas Lindner, Head of  
Sustainability Heubach  
Group, states, "The pro-  
duction of pigments and  
preparations is particularly  
energy intensive. Therefore,  
the increase in energy ef-**

**iciency and the switch to  
renewable energies is one  
of our top priorities. Our  
Indian hybrid energy and  
solar projects are a great  
step toward reaching our  
sustainability goals."**

Responsible management and sustainability are key to the Heubach Group. Many of the company's products make an important contribution to resource conservation because they significantly extend the life of materials and outdoor structures.

Source : Chemical Market

## Oeko-Tex® Responsible Business Certification

BÖNNIGHEIM (aba) On December 14, 2022, Hohenstein was able to hand over the first certification certificate for OEKO-TEX® RESPONSIBLE BUSINESS to its pilot customer Weitblick GmbH & Co. KG. The certification was introduced by OEKO-TEX® in November 2022 and thus supports companies in the textile and leather industry in the implementation of human rights

and environmental due diligence obligations. The contribution to achieving the goals of the Paris Climate Agreement is another optional component.

**"We are de-  
lighted that**



**Weitblick  
is setting  
a leading  
example,"  
emphasiz-  
es Michael  
Möller, Head  
of Audits**





**and Certifications at Hohenstein. "We are also encouraging companies that have not yet taken such a close look at their supply chain. The topic of the Supply Chain Duty of Care Act will come up for everyone." In addition, certification should give companies ad-**

**vantages in public tenders, since the requirements are comparable to those of the Green Button, except for the material specifications.** Isabelle Ilori-King, shareholder at Weitblick, explains, "After OEKO-TEX® MADE IN GREEN certification, OEKO-TEX® RESPONSIBLE BUSINESS is the logical next step for us towards a sustainable future. The certification is demanding, but it is worth it." To drive

sustainability forward, Weitblick has set up a cross-departmental task force.

Only large companies that have a reporting obligation to the government are directly affected by the new supply chain law. However, small companies within the supply chain will often have to provide information to their large customers.

Source : Chemical Market

## Evonik Enters New Era of Cleaning with Launch of Rewoform® RL 100 Biosurfactant

- First commercial quantities of high-performance, fully biodegradable rhamnolipid
- Manufactured at new industrial-scale facility in Slovakia
- Sustainably sourced for "next generation" cleaning solutions

Essen, Germany. Following a triple-digit million-euro investment to build a new biosurfactant plant in Slovakia, Evonik has launched the sustainable rhamnolipid REWOFORM® RL 100. The new biosurfactant meets demand from the cleaning solutions market for low-emission, low-impact cleaning products that enable a circular economy. REWOFORM® RL 100 is produced from locally sourced, renewable feedstocks and is fully biodegradable while providing excellent cleaning performance.

Manufacturing of increased volumes of rhamnolipids will take place at Evonik's new plant in Slovenská Ľupča, Slovakia,

which is scheduled for completion at the end of 2023. Evonik's rhamnolipids are exceptionally high quality and provide Evonik a unique position in the market due to the IP-protected manufacturing process.

REWOFORM® RL 100 leverages the biotechnology platform of Nutrition & Care and supports the growth ambition of the division and the Care Solutions business line. The addition of the new rhamnolipid is a further step towards shifting the portfolio of Evonik's life science division Nutrition & Care towards system solutions. Characterized by high growth prospects and above-average margin potential, Nutrition & Care aims to increase the share of system solutions it offers

from 20 percent today, to more than 50 percent by 2030.

"With REWOFORM® RL 100 we are entering a new era of surfactants to fulfil our customer needs today and tomorrow. Our unique production process with sustainable, all-natural ingredi-

ents, yields a unique product," says Yann d'Hervé, head of Evonik's Care Solutions business line.

Rhamnolipids are a class of biosurfactants which can be sustainably manufactured via a fermentation process using European corn sugar as the main raw material. This use of biogenic carbon requires no petrochemical raw materials or tropical oils. Rhamnolipids are fully biodegradable and have a low-impact life cycle. They are very mild on the skin and have an exceptionally low toxicological and ecotoxicological profile. The outstanding foam-forming properties of REWOFORM® RL 100 make it suitable for use in a broad range of applications including laundry detergents, hard surface cleaners, vehicle care and cleaning formulations for the food and beverage industry. REWOFORM® RL 100 also reduces the complexity of cleaning formulations because it can act as a primary and secondary surfactant.

With its well-established biosurfactant portfolio, the Care Solutions business line firmly cements its position as a sustainable specialties partner, while also further strengthening Nutrition & Care's broad technology platform. The



portfolio includes RHEANCE® One for personal care applications and the sophorolipid REWOFORM® SL ONE for cleaning solutions.

**The Nutrition & Care division is one of Evonik's three growth divisions and the home of the biotechnology excellence centre. The innovation power in Nutrition**

**& Care stems from a clear focus on sustainability, which also drives its portfolio transformation. In addition to ingredients used in household, industrial, institutional, and vehicle cleaning as well as cosmetic products, Evonik's Nutrition & Care division uses**

**fermentation technologies across a range of other high growth markets including sustainable animal nutrition, medical devices, advanced food ingredients and pharmaceutical drug products.**

Source : Evonik

## DSM Starts Construction of Large Scale Production Facility for its Novel Methane-Reducing Feed Additive for Ruminants, Bovaer® in Dalry, Scotland

Royal DSM, a global purpose-led science-based company active in Health, Nutrition and Bioscience, today began construction of a new manufacturing facility at its site in Dalry, Scotland. The plant will significantly increase global production of Bovaer®, DSM's unique methane-reducing feed additive for cattle. In an official groundbreaking ceremony attended by the First Minister of Scotland, Nicola Sturgeon, and Dimitri de Vreeze, Co-CEO of DSM, the company marked the next step in its plan to use Bovaer® to reduce global methane emissions and contribute to worldwide methane reduction targets.

DSM announced that planning had started during the UN Climate Change Conference last year in Glasgow. Construction officially began today on a facility that will help DSM scale-up production of Bovaer® in the coming years and marks another milestone in the company's ambition to bring its methane-reducing feed additive to the market worldwide. This development of DSM's Dalry site has been supported by the Scottish Government through

Scottish Enterprise, the national agency supporting economic development and innovation.

Reducing methane emissions is crucial for keeping warming below the 1.5°C target outlined in the Paris Agreement. Over 100 countries have signed a Global Methane Pledge, agreeing to reduce global methane emissions by at least 30% by 2030. The addition of new signatories in recent months, such as Australia in October 2022, underscores growing recognition of the need for urgent action. Ruminants (mainly cows) emit around 20% of all methane gasses globally, so reducing emissions in ruminant herds will play a vital role in meeting global climate ambitions.

Bovaer® is a feed additive that can achieve an average enteric methane reduction of 30% in dairy cows, and 45%

in beef cattle (with some tests showing reductions of up to 90%). DSM has initial product volumes available for near term market development. The product is in the early commercialization phase in many countries around the world, including the EU/EEA, Argentina, Australia, Brazil, Chile, Pakistan, Switzerland, Turkey, and Uruguay. Since the start of the development of Bovaer® an estimate of 15,000 tons of CO<sub>2</sub>e has been saved, and reductions will accelerate further once the Dalry plant is fully operational, expected in the course of 2025.

Rt Hon Nicola Sturgeon MSP, First Minister of Scotland, said: "Just one year on from the announcement at COP26, I am very pleased to see the progress being made on site and the fact that spades are now in the ground.

We are here today to celebrate a



world-leading project and multi-million pound investment which will make Scotland the home of this innovative product, underlining that Scotland continues to lead the way in delivering a net zero future.”

**Dimitri de Vreeze, Co-CEO of DSM, commented: “After many years of hard work and dedication, it’s a wonderful feeling to attend the groundbreaking ceremony for such a large-scale pro-**

**duction facility. This is a historic moment for DSM: We are continuing to deliver on our 2030 methane pledge, one of our food systems commitments. I wish the construction team every success as they develop this plant in the coming years.”**

Scottish Enterprise’s Chief Executive, Adrian Gillespie, added: “Today’s groundbreaking ceremony is a signifi-

cant milestone and the next step in delivering such an innovative project for Ayrshire and Scotland.

Royal DSM’s Project Bovaer® has the potential to be a game-changer for emissions reductions from cattle. Scottish Enterprise has developed a close relationship with Royal DSM over many years and we were delighted to work with the company to secure Dalry as the home for this global manufacturing opportunity.”

Source : DSM

## Archroma Awarded Ecovadis Platinum Rating For 2nd Consecutive Year Consolidating Its Position Amongst Top 1 Percentage Best Rated Companies

**P**ratteln, Switzerland, 20 December 2022 - Archroma, a global leader in specialty chemicals towards sustainable solutions, today announced the renewal of its EcoVadis “Platinum” status and further improvement of its overall rating.

Following an in-depth assessment by EcoVadis, covering 21 criteria grouped into 4 themes - Environment, Labor & Human Rights, Ethics, and Sustainable Procurement - Archroma further improved its score by 4 points (from 78/100 to 82/100), thanks in particular to its ongoing efforts in sustainable procurement, focusing on supply chain transparency and best practice sharing with suppliers and industry peers.

More details on Archroma’s sustainable sourcing activities can be found in the company’s Sustainability Report for its

fiscal year 2022, just released on 8 December 2022. The Report includes an assurance report by KPMG, who conducted a limited assurance on several core ESG metrics, including CO2 emissions, water intake, occupational safety and gender diversity. Archroma passed the audit successfully, providing yet another third-party validation of the company’s deep commitment to its ESG objectives and roadmap.

**“Our purpose is to lead our industry towards a more sustainable future for our customers and markets,**

**and we are doing everything we can at Archroma to deliver on that ambition”, comments Danielle Blomert, Archroma’s Chief Sustainability Officer.**

Daniel Madueno, Global Head of Quality Management adds: “We see sustainability as a true team effort, and the renewed EcoVadis recognition as a tribute to the hard work and ambition of all my colleagues to achieve and maintain the highest ESG standards every day, everywhere.”

Source : Chemical Market





# Indorama Ventures Ranked No. 1 in The World by ChemSec for the Second Year in a Row for Best Practices in Chemical Footprints

Bangkok, Thailand – 23 December 2022 – Indorama Ventures Public Company Limited (IVL), a global sustainable chemical company, received top ranking, for the second consecutive year, among the world's 54 largest chemical companies in the ChemScore ranking by ChemSec, for its efforts to reduce its chemical footprint.

IVL is also the only chemical company that uses the Substitute It Now (SIN) List to remove hazardous substances, market safer alternatives, use bio-based and hazard-free recycled feedstocks, and develop low-carbon products. This reinforces IVL's purpose of 'reimagining chemistry together to create a better world' and underscores the company's support for the United Nations Sustainable Development Goals (SDGs).

**Yash Lohia, Chairman of ESG Council at Indorama Ventures, said, "Achieving the highest score in the**

**ChemScore ranking by ChemSec for the second consecutive year proves IVL's commitment to sustainability. To minimize the environmental impact of our products, we use safer chemistry in our raw materials and intermediaries, improve the efficiency and eco-impact of our production systems, and develop innovative products across our value chain. This supports our company's sustainable growth and the overall industry to help bring about a better future to society and the environment."**

Factors that increased IVL's score include its ambition to use 16% bio-based and 10% recycled raw materials (rPET) as feedstock by 2030, and safer green chemistry substitutions to reduce toxicity from raw materials and production processes. IVL's Deja™ brand, offering the world's first carbon-neutral PET pellet solution, is a sustainable alternative to reduce environmental impact.

The ChemScore ranking was developed by ChemSec, the non-profit International Chemical Secretariat in Sweden that advocates for safer alternatives to toxic chemicals, provide investors with better information to assess companies with strong chemical management strategies, and increased transparency. The ranking covers hazardous chemical portfolios, the development of safer chemicals and circular products, chemical management and company transparency, and responses to controversies, lawsuits, and regulations.

Source : Indorama

## GenH2 Launches Ground-Breaking Mobile Liquid Hydrogen System

GenH2, an industry leader in hydrogen infrastructure solutions, announced the launch of its ground-breaking LS20 Mobile Liquid Hydrogen System, an end-to-end liquefaction and storage system.

The innovative, mobile liquefaction unit offers a space-optimized, fully integrated liquid hydrogen solution to be used in a range of applications from trans-

portation to energy backup to accelerating the use of liquid hydrogen through pilot projects and testing. It will also be utilized as a lab setting for testing material, insulation, thermodynamic properties, and use cases for their applications.

With a mission to provide light-scale infrastructure solutions for liquid hydrogen, GenH2 designed the LS20 with the capability of producing small amounts

of liquid hydrogen in order to provide access to more hydrogen researchers and hydrogen industry players.

The LS20 can produce between two and 20kg of liquid hydrogen per day, to provide liquid hydrogen per day, to provide liquid hydrogen at-the-ready, when and where it is needed. Twenty kg of liquid hydrogen contains nearly 2400 Megajoules of energy and can be readily



stored and used within GenH2's ultra-light utility tank systems.

**"The development of the LS20 has been a culmination of decades of experience and engineering with-**

**in and in conjunction with NASA," said Jong Baik, Chief Technology Officer of GenH2. "Providing researchers and developers of hydrogen infrastructure**

**with a modular, efficient way of getting their hands on liquid hydrogen is a vital requirement to advance the hydrogen economy. "**

Source : Fuelcells Works

## Dic India Launches Mobile App for Ink Printer & Converter Customers

NEW DELHI, INDIA: DIC India said it has launched its first-ever mobile application in India called DIC India Ink Master app, to provide Indian customers a unique platform to address their day-to-day operational queries.

With physical channels of interaction witnessing a decline in the wake of the pandemic, digitization has becoming the new normal for both consumers and businesses. Hence, to offer a bilateral communication platform to its customers, DIC India has introduced a self-help mobile application, which is a part of the company's holistic digital engagement strategy.

Developed mostly to address the needs of the local ink industry, DIC India Ink Master app lists down possible operational problems and solutions related to lamination adhesive, news inks, flexographic, gravure, offset printing etc. faced by a printer or a converter.

Additionally, the app will also offer a dedicated section called 'Raising a Que-

ry' that will allow customers to request for guidance on new problems faced by them. In order to provide a seamless and timely response to the users, the app will be monitored 24X7 and 365 days by an assigned team at DIC India.

"The pandemic has forced businesses across sectors to adopt digital first approach. More than ever now, we are living in a contactless world wherein the majority of interactions with both customers and partners have now moved virtually," said Manish Bhatia, managing director & CEO, DIC India.

**"With the launch of the DIC India Ink Master mobile app, we are positive that the Indian printer & converter community will greatly benefit, thereby giving them a gain competitive edge. Through this app, we**

**will address our customer's present and future concerns w.r.t activation or maintenance of their printing presses etc," he added.**

Recently, to create mindshare of the Indian customers across Indian subcontinent about the toluene ban announced by The Bureau of Indian Standards (BIS) for food packaging, DIC India leveraged its digital initiative called DIC Konnect.

Under this flagship initiative, the company hosted a series of webinars, which were organized with an aim to guide customers about the best industry practices to restart their printing process post the lockdown, address their concerns as well as demonstrate the company's robust product portfolio. The DIC India Ink Master mobile application is an extension of the DIC Konnect initiative undertaken by the company.

Source : DIC

## Airnov Enlarges Portfolio With A New And Innovative Addition To Meet Evolving Customers' Needs

• HAT®-B, launched in July 2022, is the latest product in the HAT product line designed to protect test

strips, pharmaceuticals, and nutraceuticals from moisture

• Capacity increased in China to produce higher quantities of HAT-SNAP to answer soaring market de-



## mand in this region

- **Sustainability continues to be a key consideration for Airnov when designing new products**

December 21, 2022 – Airnov Healthcare Packaging, a global leader in controlled atmosphere packaging, continues to enhance its offering to customers with additions to its portfolio.

Launched in July 2022, HAT-B is the company's latest innovative vial, an active and ergonomic flip-top container designed to protect test strips, pharmaceuticals, and nutraceuticals from moisture. To meet a variety of needs, moisture protection is integrated as a raw desiccant at the bottom of the tube.

These vials also carry numerous other inventive and sustainable features. For example, they are made with a reduced amount of plastic, contain adjustable desiccant quantities, and comprise versatile sorbent material to fit stability requirements. The vial, suitable for the diagnostic, pharmaceutical and nutraceutical markets, is available in two sizes and is compatible with existing filling lines and desiccants to fit all customer needs.

Mélissa Plantier, Product Manager at Airnov commented: "HAT-B also

guarantees high in-use efficiency. The desiccant location at the bottom of the tube ensures the closest position to the reactive part of the test strips, or to the sensitive product, which optimizes use of space and helps our customers to be more efficient."

Airnov has also increased its manufacturing capacity in China to meet growing demand for its HAT-SNAP product. As part of the HAT portfolio, it is another type of active and ergonomic flip-top container to package and protect test strips, pharmaceuticals, and nutraceuticals from moisture. Key features include easy snapping of the closure onto the container, tamper evidence security, and customization with options such as silica gel, molecular sieve, or a combination of both to achieve desired performance.

HAT-IN Snap is another variant in the HAT family of products. The closure system allows for additional capacity inside the container, another key feature being the integration of Airnov's Advanced Desiccant Polymer (ADP®), which is embedded into the polymer matrix for direct integration into container walls.

HAT-IN also features ADP®. A major attribute of this product is that the closure system is pre-assembled to the container, which is delivered to customers closed to minimize exposure of the desiccant during filling.

**"With 2023 on the horizon, our aim is to continue**

**providing products that meet the requirements of various healthcare and packaging**

**markets," Mélissa Plantier added. "If there are ways that we can help customers to become more efficient and increase the sustainability of their operations, then Airnov is determined to make it happen. We look forward to making further strides in 2023."**

Source : Press Release Finder



## Devan Launches Purissimo® NTL, a Full Biobased, Biodegradable Allergen Control Technology

RONSE, BELGIUM – Belgian textile innovator Devan Chemicals will launch Purissimo® NTL, a biobased and readily biodegradable allergen control technology, at the upcoming Heimtextil trade show in Frankfurt (January 10-13, 2023). It is based on the well-known probiotic encapsulation technology and aims to improve the lives of people who suffer from allergies. It can be applied to

textiles during the finishing stage of the textile manufacturing process.

Worldwide, the prevalence of allergic diseases has continued to rise in the industrialised world for more than 50 years, according to the World Health Organisation. Allergies have an impact on the quality of life and are associated with other medical conditions. Devan is

now launching Purissimo® NTL, a natural allergen control technology that cleans up pet dander, pollen and house dust mite allergens in textiles throughout the home. The technology is based on encapsulated probiotics, which are natural microorganisms similar in kind to those you can find in yoghurt, cheese and other probiotic food.





Devan has many years of experience with probiotics. The company introduced probiotics in textiles already in 2010.

Purissimo® NTL is based on Devan's already well-established probiotics, incorporated into a new microcapsule shell. The shell is based on a natural crosslinked biobased polymer, which results in microcapsules that are up to 97% biobased and readily biodegradable (OECD 301B).

**Firstly, dormant probiotic bacteria (spores) are encapsulated. The microcapsule**

**product is then integrated into textiles. Friction opens the capsules and releases the spores. The spores absorb humidity, self-activate and start to multiply. The probiotic bacteria start to consume the allergens that cause allergic reactions and asthma. Due to lower allergen concentration, individuals with respiratory allergies such as house dust mite**

**matter, pet allergens and pollen allergens will have milder to no symptoms and hence a better well-being feeling.**

Purissimo® NTL can be used on a wide range of textiles such as mattresses, pillows, bedcovers, blankets but also upholstered furniture, carpets, curtains and public transportation and pet items, such as bedding. It is Oeko-tex® compliant, has a long-lasting effect and a wash durability up to 30 washes is achievable.

Source : Press Release

## Sabic Introduces New HDPE Solution with Recycled Content for Lubricant Bottles in Saudi Arabia

SABIC, a global leader in the diversified chemical industry, has introduced a new high-density polyethylene (HDPE) with mechanically recycled content as part of TRUCIRCLE™, the company's commitment to help accelerate a circular economy for plastics.

The material was custom-developed for blow molding of motor oil and lubricant bottles. It has a content in the range of 30% mechanically recycled post-consumer plastic.

The initiative aims to drive toward a full closed loop from bottle to bottle in the Saudi Arabian automotive aftermarket.

"At SABIC, we are committed to accelerating the transition toward more circular solutions for the automotive aftermarket. This transformation will not only require innovation, but also collaboration which will be taken across the value chain to bring to life feasible closed-loop initiatives such as those under our TRUCIRCLE™ program," says Abdullah Al-Otaibi, General Manager, Engineering Thermoplastics & Market

Solutions, SABIC.

**"This first mechanical recycling project aims to create a solid new sustainable business model in the Kingdom of Saudi Arabia. It demonstrates the feasibility to scale up circular solutions and the combined expertise to extend the life of plastics and regain value from post-consumer oil bottle waste," he added.**

The development of SABIC HDPE T3K01B needed to overcome several technical challenges. The final material solution with 30% post-consumer recycled content has been thoroughly tested at SABIC's Plastics Application Development Center (SPDAC) in Riyadh. It shows the same batch-to-batch consistency, process ability and in-use

properties as SABIC's all-virgin HDPE blow-molding grade. Reliable bottle performance was confirmed in comprehensive practical trials, including standard drop impact, top load and dimensional stability testing.



According to the SABIC internal life cycle assessment study, the 30% post-consumer mechanically recycled compound offers a carbon footprint reduction in the range of 20% when compared to a 100% virgin HDPE grade\*.

The launch of SABIC HDPE T3K01B further expands the growing range of SABIC's TRUCIRCLE™ circular solutions and services. In addition to mechanically recycled materials and closed-loop initiatives, the TRUCIRCLE™ offering also comprises design for recyclability services, certified circular products from advanced recycling of used plastics and certified renewable polymers from bio-based feedstock.

Source : Sabic



CpHI - Informa Group			
No	Exhibitions	Date	Place
1	<a href="#">CPhI North America</a>	Apr 25-27, 2023	PHL
2	<a href="#">CPhI Worldwide Germany</a>	Oct 24-26, 2023	Messe Frankfurt, Germany
3	CPhI Middle East & Africa 2023	TBD	TBD
4	<a href="#">CPhI China- Virtual CPhI</a>	June 19-21, 2023	Shanghai, China
5	<a href="#">CPhI Japan</a>	Apr 19-21, 2023	Tokyo, Japan
6	<a href="#">CPhI Korea</a>	30 Aug - 1 Sept, 2023	COEX, Seoul, Korea
7	<a href="#">CPhI India</a>	Nov 28-30 2023	Noida, India
MECS (Coating Show)			
1	<a href="#">Asia Pacific Coatings Show</a>	Sept 06-08, 2023	Bankok, Thailand
2	<a href="#">Saudi Arabia Coatings Show</a>	Feb 13-15 2023	Dammam Saudi Arabia
3	<a href="#">Middle East Coatings Show</a>	June 19-21, 2023	Egypt
4	<a href="#">Coatings For Africa 2024</a>	TBD	Johannesburg, South Africa
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DYE+CHEM			
1	Dye+Chem Morocco International Expo	TBD	Morocco
2	Dye+Chem Sri Lanka International Expo	TBD	Colombo Sri Lanka
3	<a href="#">Dye+Chem Bangladesh International Expo</a>	Sept 13-16 2023	Bangladesh
4	<a href="#">Dye+Chem Brazil International Expo</a>	TBD	Brazil
Red Carpet Events			
1	5th Bangladesh Int’l Dyes, Pigments and Chemicals Expo	TBD	Dhaka, Bangladesh
Turkey (Arkim Group)			
1	<a href="#">InterDye Textile Printing Eurasia</a>	TBD	Istanbul
2	<a href="#">Paint Istanbul TURKCOAT</a>	Feb 7-9, 2024	Istanbul
3	Paint Expo Eurasia	Apr 09-12, 2024	Istanbul
Other Exhibitions			
1	<a href="#">Paint India</a>	Mar 02-03, 2023	JIO World Convention Center, Mumbai
2	<a href="#">Expo Paint and Coating</a>	July 13-15, 2023	New Delhi, India
3	CIPI	TBD	Mumbai, India
4	<a href="#">Chemspec Europe</a>	May 24-25, 2023	Messe Basel, Switzerland
5	<a href="#">ChemUK Expo</a>	May 10-11, 2023	NEC, Birmingham, UK
6	American Coatings Show	TBD	Indianapolis
7	<a href="#">China Coat China</a>	Dec 06-08, 2022	China Import and Export Fair Complex, Guangzhou
8	Interdye China	TBD	China
9	<a href="#">Paint Expo Germany</a>	Apr 09-12, 2024	Messe Karlsruhe Germany
10	<a href="#">India Chem 2023</a>	TBD	Pragati Maidan, New Delhi



## EVENTS AND CONFERENCES

### SAUDI ARABIA COATINGS SHOW

**Date:** Feb 13-15, 2023

**City:** Dhahran Expo, Dammam

**Country:** Saudi Arabia

**Website:** <https://www.saudiarabiacoatingsshow.com/>

**Description:** The Saudi Arabia Coatings Show is the only dedicated coatings trade exhibition in Saudi Arabia that brings the coatings industry together. The event creates the perfect environment for manufacturers, raw materials suppliers, distributors, buyers and technical specialists like formulators from the coatings industry to meet face-to-face and do business. That's not all, the event offers the opportunity to gather insight into the latest processes, exchange ideas with industry leaders and build a strong network in the region. For three days, the trade exhibition facilitates serious business and networking opportunities for the coatings community.

### CHEMSPEC EUROPE

**Date:** May 24-25, 2023

**City:** Messe Basel, Switzerland

**Country:** Europe

**Website:** <https://www.chemspeceurope.com/>

**Description:** With a highly specialised profile, Chemspec Europe is a key event for the fine and speciality chemicals industry. The exhibition is the place to be for purchasers and agents to meet with manufacturers, suppliers and distributors of fine and speciality chemicals to source specific solutions and bespoke products.

Chemspec Europe is a powerful gateway to global business and industry knowledge, making the event appealing to its international audience. The exhibition features the full spectrum of fine and speciality chemicals for various applications and industries.

Additionally, a wide range of free conferences provides excellent opportunities to network with industry colleagues and exchange competencies on the latest market trends, technical innovations, business opportunities, and regulatory issues in an evolving market.

### CPHI NORTH AMERICA

**Date:** Apr 25-27, 2023

**City:** Pennsylvania Convention Center, Philadelphia

**Country:** Philadelphia

**Website:** <https://www.cphi.com/northamerica/en/about.html>

**Description:** CPHI organizes the most important and widespread series of global pharmaceutical events. Our gatherings are both renowned and revered—but it didn't start in North America. With massive events throughout Asia, South America, Europe, and beyond...more than 500,000 powerful and respected pharma players from every aspect of the supply chain understand that CPHI is where they connect to learn, grow, and conduct business. With a 30-year tradition and an infrastructure fine-tuned to unite buyers, sellers, and industry trailblazers, we expanded this iconic worldwide events portfolio into the most progressive mega market on earth. Enter CPHI North America.





## EVENTS AND CONFERENCES

It's true, the U.S. alone accounts for 40% of the world's pharmaceutical sales and is home to 6 of the top 11 companies. But much more than that, this is a place of community-building connections. A forum for thought leadership. The hub of innovation. And it all comes to life at CPHI North America.

### PAINT INDIA

**Date:** Mar 02 -03, 2023

**City:** Greater Noida, Delhi – NCR

**Country:** India

**Website:** <https://www.paintindia.in/>

**Description:** PaintIndia is the premier trade fair for the paints, coatings and allied industries in this part of the world, and the third largest show of its kind the world over. It has been in existence for over 25 years now, and has been the fastest growing event globally in this space. It comes from the same lineage as the magazine of the same name, which has been serving the Industry for over 70 years now. More recently, it has been fortified and strengthened globally with the joint ownership between the erstwhile owners and the owners of the European Coatings Show

### CPHI JAPAN

**Date:** Apr 19-21, 2023

**City:** Tokyo Big Sight, Tokyo

**Country:** JAPAN

**Website:** <https://www.cphi.com/japan/en/home.html>

**Description:** India's pharma industry is recognized by its high quality, accessible and cost-effective solutions. The event is known to provide a time efficient and educational environment for buyers and sellers within the Indian pharma ingredients and machinery industry. At CPHI & PMEC India, you will meet the movers and shakers from India's pharma machinery, technology and ingredients industries, giving you a competitive advantage that will help grow your business.

### CHEM UK EXPO

**Date:** MAY 10 - 11, 2023

**City:** NEC, Birmingham, UK

**Country:** UK

**Website:** <https://www.chemicalukexpo.com/>

**Description:** CHEMUK 2023 will return on the 10th & 11th May 2023 running in Hall 1 at the NEC, Birmingham. The expo will present 400+ specialist exhibitors and 150+ expert speakers split between three major show zones:

- **Chemical Industries Supply Chain**
- **Chemical, Process & Plant Engineering**
- **NEW FOR 2023: CHEMLAB**

*Event information may be out of date due to the coronavirus (COVID-19). Confirm details with event organisers.*



## Booking price as on 10/01/2023

Current Exchange rate-\$1= 82.22 INR

Chemicals name	Current Prices	Previous Price	Change	Type
Acetic Acid	450	465	-15	CFR India
Acrylonitrile	1370	1390	-20	CFR India
Benzene	870	875	-5	FOB India
Phenol	1080	1070	10	CFR India
Acetone	575	590	-15	CFR India
Butyl acrylate monomer	1220	1190	30	CFR India
C9 solvent	1060	1080	-20	CFR India
LAB	1710	1730	-20	CFR India
IPA	qq	920	-	CFR India
Methanol	330	320	10	CFR India
VAM	1060	1100	-40	CFR South Asia
Toluene	960	970	-10	CFR India
Styrene monomer	1110	1120	-10	CFR India
NBA	900-970	900-970	-	CFR India
2-eha	1170-1250	1170-1250	-	CFR India
Iso butanol	800-850	800-850	-	CFR India
MEG	NA	NA	-	CFR India
Mix xylene	990	995	-5	CFR India
Glycerine	680	700	-20	CIF India
DMF	1000	1020	-20	CFR India
Acrylic acid	1100	1050	50	CIF India
Formic Acid	NA	NA	-	CFR India
Adipic Acid	1350	1350	0	CIF India
Ethylene	865	880	-15	CIF India
PTA	740	760	-20	CFR India
Propylene	865	860	5	CIF India
THF	2350	2310	40	CIF India

## Mumbai Market Price as on 11/01/2023

Name of Chemical	Packing type	Units	Current Price	Previous Price	Changes	Exclusive of
Acetic Acid	Imported Repack	Rs/Kg	48	48	0	GST
	Domestic Intact	Rs/Kg	57	57	0	GST
	Domestic Repack	Rs/Kg	48	48	0	GST



<b>Acetone</b>	Imported Intact	Rs/Kg	NA	NA	-	GST
	Imported Repack	Rs/Kg	75	75	0	GST
	Domestic Intact	Rs/Kg	88	88	0	GST
	Domestic Repack	Rs/Kg	75	75	0	GST
<b>Acetonitrile</b>	Imported Intact	Rs/Kg	200	200	0	GST
	Domestic Intact	Rs/Kg	NA	NA	-	GST
	Domestic Repack	Rs/Kg	NA	NA	-	GST
<b>Acrylonitrile</b>	Imported Intact	Rs/Kg	165	165	0	GST
	Imported Repack	Rs/kg	155	155	0	GST
<b>Aniline</b>	Imported Intact	Rs/Kg	183	183	0	GST
	Imported Repack	Rs/Kg	NA	NA	-	GST
	Domestic Intact	Rs/Kg	184	184	0	GST
	Domestic Repack	Rs/Kg	NA	NA	-	GST
<b>Benzene</b>	Domestic Repack	Rs/Litre	84	84	0	GST
<b>Cyclohexane</b>	Imported Intact	Rs/Kg	122	122	0	GST
	Imported Repack	Rs/Kg	NA	NA	-	GST
	Domestic Intact	Rs/Kg	111	111	0	GST
	Domestic Repack	Rs/Kg	107	107	0	GST
<b>Cyclohexanone</b>	Imported Intact	Rs/Kg	139	139	0	GST
	Imported Repack	Rs/Kg	135	135	0	GST
	Domestic Intact	Rs/Kg	NA	NA	-	GST
	Domestic Repack	Rs/Kg	134	134	0	GST
<b>C9 Solvent (99.99% purity)</b>	Imported Repack	Rs/Kg	106	106	0	GST
<b>C9 Solvent (Arham Petrochem)</b>	Imported Repack	Rs/Kg	105.75	105.75	0	GST
<b>Dibutyl Phthalate</b>	Domestic Intact	Rs/Kg	136	136	0	GST
<b>Diocetyl Phthalate</b>	Imported Intact	Rs/Kg	NA	NA	-	GST
	Domestic Intact	Rs/Kg	146	146	0	GST
<b>Ethyl Acetate</b>	Domestic Intact	Rs/Kg	94	94	0	GST
	Domestic Repack	Rs/Kg	92	92	0	GST
<b>Formaldehyde(37%)</b>	Domestic Intact	Rs/Kg	21.5	21.5	0	GST
	Domestic Repack	Rs/Kg	21	21	0	GST
<b>Methanol</b>	Imported Repack	Rs/Litre	38	38	0	GST
<b>Methyl Ethyl Ketone</b>	Imported Intact	Rs/Kg	137	137	0	GST
	Imported Repack	Rs/Kg	122	122	0	GST
<b>Methyl Isobutyl Ketone</b>	Imported Intact	Rs/Kg	160	160	0	GST
	Imported Repack	Rs/Kg	158	158	0	GST
	Domestic Repack	Rs/Kg	NA	NA	-	GST
<b>Methyl Methacrylate</b>	Imported Intact	Rs/Kg	144	148	-4	GST
	Imported Repack	Rs/Kg	NA	NA	-	GST





Mixed Xylene	Imported Repack	Rs/Kg	92	92	0	GST
	Domestic Repack	Rs/Kg	92	92	0	GST
Monoeth-ylene Glycol	Imported Intact	Rs/Kg	61	61	0	GST
	Imported Repack	Rs/Kg	57	57	0	GST
	Domestic Intact	Rs/Kg	63	63	0	GST
	Domestic Repack	Rs/Kg	57	57	0	GST
Iso propyl Alcohol	Imported Intact	Rs/Kg	NA	NA	-	GST
	Imported Repack	Rs/Kg	100	100	0	GST
	Domestic Intact	Rs/Kg	118	118	0	GST
	Domestic Repack	Rs/Kg	100	100	0	GST
nButanol	Imported Intact	Rs/Kg	NA	NA	-	GST
	Imported Repack	Rs/Kg	102	102	0	GST
	Domestic Intact	Rs/Kg	110	110	0	GST
	Domestic Repack	Rs/Kg	102	102	0	GST
Ortho Xylene	Imported Repack	Rs/Kg	114	114	0	GST
Phenol	Imported Intact	Rs/Kg	123	123	0	GST
	Imported Repack	Rs/Kg	118	118	0	GST
	Domestic Intact	Rs/Kg	122	122	0	GST
	Domestic Repack	Rs/Kg	118	118	0	GST
	Phthalic Anhydride	Rs/Kg	102	102	0	GST
Purified Terethaic Acid	Domestic Intact	Rs/Kg	101	101	0	GST
	Domestic Intact	Rs/Kg	NA	NA	-	GST
Styrene Monomer	Imported Repack	Rs/Kg	111	111	0	GST
Toluene	Imported Repack	Rs/Kg	90	90	0	GST
	Domestic Repack	Rs/Kg	90	90	0	GST
Vinyl Acetate Monomer	Imported Repack	Rs/Kg	106	106	0	GST
Note-Above prices have been collected from experts and experienced outsources of the industry. Kindly verify from your end as well.						

## International market prices as on 13/01/2023

Products	Regions	Current prices	Last Price	Difference
Feedstock Prices \$/unit				
Crude Oil (\$/barrel)	WTI CRUDE	78.13	77.52	0.61
	BRENT CRUDE	83.65	82.77	0.88
	MARS US	73.89	72.91	0.98
	OPEC BASKET	78.23	77	1.23
Natural Gas	New York	3.68	3.64	0.04
Gasoline	RBOB	2.45	2.44	0.01
Heating Oil	US	3.21	3.18	0.03
Ethanol	US	2.18	2.14	0.04



<b>Naphtha (\$/mt)</b>	FOB Singapore	690	650	40.00
	European	695	655	40.00
	CFR Far East Asia	677	672	5.00
<b>Propane</b>	New York	0.79	0.78	0.01
<b>Aromatics prices \$/MT</b>				
<b>Benzene</b>	FOB Korea	885	850	35.00
	CFR Japan	910	875	35.00
<b>Styrene</b>	CFR Japan	1130	1065	65.00
	CFR South East Asia	1080	1080	0.00
	CFR China	1130	1065	65.00
	FOB Korea	1135	1065	70.00
<b>Toluene</b>	CFR China	815	800	15.00
	CFR South East Asia	790	790	0.00
	FOB Korea	775	765	10.00
	CFR Japan	815	800	15.00
<b>Iso-mix xylene</b>	CFR South East Asia	850	825	25.00
	CFR Taiwan	895	865	30.00
	FOB Korea	870	845	25.00
<b>MEG</b>	CFR China	515	500	15.00
	CFR South East Asia	520	505	15.00
<b>Methanol</b>	CFR China	317	311	6.00
	CFR Korea	362	362	0.00
	CFR South East Asia	385	382	3.00
	CFR Taiwan	348	348	0.00
<b>Solvent-MX</b>	CFR South East Asia	840	840	0.00
	FOB Korea	775	775	0.00
	CFR China	790	790	0.00
<b>Ortho xylene</b>	CFR South East Asia	990	990	0.00
	FOB Korea	990	990	0.00
	CFR China	990	990	0.00
<b>Para xylene</b>	CFR South East Asia	935	935	0.00
	FOB Korea	955	940	15.00
	CFR Taiwan	975	965	10.00
<b>Propylene</b>	FOB Japan	875	875	0.00
	FOB Korea	845	845	0.00
	CFR China	875	875	0.00
	CFR South East Asia	865	865	0.00
<b>Propylene Glycol</b>	FOB Korea	865	865	0.00
	CFR China	895	895	0.00
	CFR South East Asia	880	880	0.00
	CFR Taiwan	905	905	0.00



<b>Ethylene</b>	CFR North East Asia	805	815	-10.00
	CFR South East Asia	865	865	0.00
	FOB Japan	790	790	0.00
	FOB Korea	795	795	0.00
<b>Ethylene Di Chloride (EDC)</b>	CFR Far East Asia	275	275	0.00
	CFR South East Asia	245	245	0.00
<b>Butadiene</b>	CFR China	905	875	30.00
	CFR South East Asia	805	805	0.00
	FOB Korea	895	835	60.00
<b>FOB Rotterdam USD/MT</b>	Benzene	845	845	0.00
	Methanol	305	305	0.00
	Ortho xylene	1465	1465	0.00
	Para xylene	1165	1155	10.00
	Xylene solvent	910	910	0.00
	Styrene	1280	1310	-30.00
	Toluene	980	945	35.00
<b>USA Aromatics prices FOB US Gulf</b>	Benzene C/G	328	318	10.00
	Toluene C/G	356	351	5.00
	Styrene C/LB	49.4	54.4	-5.00
	Para xylene \$/MT	1015	1005	10.00
	Mix xylene C/G	349	349	0.00
	Methanol C/G	97.5	97.5	0.00
<b>Intermediates prices \$/MT</b>				
<b>Acrylonitrile</b>	CFR Far East Asia	1475	1475	0.00
	CFR South East Asia	1475	1475	0.00
	CFR South Asia	1370	1370	0.00
<b>EDC</b>	CFR Far East Asia	280	250	30.00
	CFR South East Asia	280	240	40.00
<b>VCM</b>	CFR Far East Asia	690	650	40.00
	CFR South East Asia	720	680	40.00
<b>MTBE</b>	FOB Singapore	831	838	-7.00
	FOB US Gulf	1027	1014	13.00
<b>Phenol</b>	CFR China	900	915	-15.00
	CFR South East Asia	1080	1095	-15.00
	FOB US Gulf	1052	1052	0.00
	FOB Rotterdam	1331	1320	11.00
<b>Acetone</b>	CFR China	620	640	-20.00
	CFR South East Asia	715	735	-20.00
	CFR Far East Asia	685	685	0.00
	FOB US Gulf	728	728	0.00
	FOB Rotterdam	977	956	21.00





<b>Caprolactum</b>	CFR Far East Asia	1595	1595	0.00
	CFR South East Asia	1595	1595	0.00
<b>Caustic Soda</b>	FOB North East Asia	535	545	-10.00
	CFR South East Asia	635	645	-10.00
<b>Ethyl acetate</b>	FOB US Gulf	2000	2000	0.00
	FOB Rotterdam	1267	1235	32.00
	FD North West Europe(Euro/mt)	1280	1270	10.00
<b>Butyl acetate</b>	FOB US Gulf	2400	2400	0.00
	FOB Rotterdam	1717	1715	2.00
	FD North West Europe(Euro/mt)	1700	1725	-25.00
<b>MEK</b>	FOB Rotterdam	1846	1805	41.00
	FD North West Europe(Euro/mt)	1820	1810	10.00
<b>IPA</b>	FOB US Gulf	1090	1090	0.00
	FOB Rotterdam	1218	1187	31.00
	FD North West Europe(Euro/mt)	1235	1225	10.00
<b>NBA</b>	CFR China	1140	1140	0.00
	CFR South East Asia	1145	1145	0.00
	CFR Far East Asia	1135	1135	0.00
<b>Octanol</b>	CFR China	1175	1220	-45.00
	CFR South East Asia	1200	1215	-15.00
	CFR Far East Asia	1170	1215	-45.00
<b>DOP</b>	CFR China	1290	1290	0.00
	CFR South East Asia	1345	1310	35.00
	CFR Far East Asia	1285	1305	-20.00
<b>Phthalic anhydride</b>	CFR China	1030	1020	10.00
	CFR South East Asia	1060	1065	-5.00
	CFR Far East Asia	1025	1015	10.00
<b>PTA</b>	CFR Far East Asia	750	725	25.00
	CFR South East Asia	770	750	20.00
<b>Acetic Acid</b>	CFR Far East Asia	430	435	-5.00
	CFR South East Asia	440	445	-5.00
	CFR South Asia	440	445	-5.00
	FOB China	340	345	-5.00
<b>VAM</b>	CFR China	1095	1135	-40.00
	CFR South East Asia	995	1070	-75.00
	CFR South Asia	1175	1175	0.00
<b>Polymers prices \$/MT</b>				



<b>PVC Suspension</b>	CFR Far East Asia	865-885	865-885	Not Available
	CFR South East Asia	830-880	830-880	Not Available
<b>ABS Injection</b>	CFR Far East Asia	1320-1380	1300-1370	Not Available
	CFR South East Asia	1350-1390	1330-1380	Not Available
Shipping term		Description		
<b>FOB</b>	Free on Board	The seller quotes a price including the cost of delivering goods to the nearest port. The buyer bears all the shipping expenses and is responsible to get the products from that port to its final destination. In simple terms, FOB price means the buyer has to bear the shipping costs completely. This is one of the most used shipping terms by international buyers and sellers.		
<b>EXW</b>	Ex-Works	The seller has no involvement with the transportation costs and risks. The buyer has to collect the goods from the seller's site and get them to the final destination. All the costs and risks are borne by the buyer. It is advisable that the buyer purchases insurance since the goods can get damaged in transit. EXW is ideal when the buyer and seller are in the same country or region.		
<b>CFR</b>	Cost and Freight	The seller pays the loading and freight costs from his premises up to the destination port. Then, the buyer has to arrange for the goods to be transported from the port to his premises. The seller is only responsible for the cost of shipping the products to the destination port. CFR is used for products transported by sea or inland waterways only. The seller does not bear the risk of loss or damage during transit.		
<b>CIF</b>	Cost, Insurance, and Freight	If the buyer opts for CIF price, the seller pays for the loading and freight costs right from his premises up to the destination port as well as insurance. In the case of damage or loss, the seller bears the risk completely. The buyer has to arrange for transportation of the goods from the port to his premises. CIF is a safer option than CFR since the goods are insured by the seller up to their arrival at the destination port.		
<b>DAP</b>	Delivered at Place	It was previously known as DDU, Delivery Duty Unpaid. In this case, the seller is responsible for getting the goods from his own factory up to the premises of the buyer. He also bears the risk in the case of loss or damage of the goods right until the products are delivered to the buyer. The buyer only has to pay the import duties or custom clearance charges.		
<b>DDP</b>	Delivery Duty Paid	The seller is responsible for shipping the goods from his factory to the destination address provided by the buyer, usually his factory or warehouse and is also liable for any damage or loss of goods during transit. The seller also takes care of the customs, VAT, or import duties levied on the products. The buyer only has to receive the products at the destination. In most cases, most sellers only offer DDP for small shipments.		
<b>FD North West Europe</b>	Free Delivered	Free Delivered North West Europe		



# Opening Ports Price (Rs/kg) of Chemicals as on 13/01/2023

USD Exchange Rate: 81.39 INR

	Chemicals Name	Current Prices (INR/kg)	Previous Price (INR/kg)	Changes (INR/kg)	Prices in USD/mt Equivalent to INR/kg	Location
<b>A</b>	Acetic Acid	40	41	-1.00	491.46	Ex-Mumbai
	Acetic Acid	39	40	-1.00	479.17	Ex-Kandla
	Acetonitrile-imported intact	200	215	-15.00	2457.30	Bhiwandi
	Acetone	66	67	-1.00	810.91	Ex-Mumbai
	Acrylic acid	NA	120	Not Available	Not Availabale	Ex-Bhiwandi
	Acrylonitrile	126-130	128	Not Available	Not Availabale	Ex- Kandla
	Adipic acid	170	NA	Not Available	2088.71	Ex-Bhiwandi
	Aniline oil	141	140	1.00	1732.40	Ex-Kandla
	ABS Resin	137	137	0.00	1683.25	Ex-Mumbai Market
<b>B</b>	Benzene	63	63	0.00	774.05	Ex- Ankle-shwar
	Butyl Acetate	97	96	1.00	1191.79	Ex-Kandla
	Butyl Acrylate monomer	116-120	120	Not Available	Not Availabale	Ex-Kandla
	Butyl Cellosolve	91	95	-4.00	1118.07	Ex-Kandla
	Butyl Glycol	91	95	-4.00	1118.07	Ex-Kandla
<b>C</b>	C10	105	107	-2.00	1290.08	Ex-Kandla
	C9	87	86	1.00	1068.93	Ex-Kandla
	Carbon Black-regular grade	65	65	0.00	798.62	Mumbai
	Caustic Soda Lye	42.5	49	-6.50	522.18	Ex-Dahej
	Caustic Soda Flack 50%	58	58	0.00	712.62	Ex-Bhiwandi
	Chloroform	29	36	-7.00	356.31	Ex-Dahej
	Citric Acid-ANHYD	90	99	-9.00	1105.79	Ex-Bhiwandi
	Citric Acid-Mono	82	95	-13.00	1007.49	Ex-Bhiwandi/ Ex- Mumbai
	Cyclohexane	90 (91 Reliance)	91 (91 Reliance)	Not Available	Not Availabale	Ex-Kandla
	Cyclohexanone	121	123	-2.00	1486.67	Ex-Kandla
<b>D</b>	DMF Drum	105	102	3.00	1290.08	Ex-Bhiwandi
	DEG	63	64	-1.00	774.05	Ex Hazira





<b>E</b>	<b>EDC</b>	33	34	-1.00	405.46	Ex-Kandla
	<b>Epoxy Resin</b>	195	210	-15.00	2395.87	Ex-Nha- va Sheva
	<b>Ethyl Acrylate</b>	NA	NA	Not Available	Not Availabale	Ex-JNPT
<b>F</b>	<b>Formic Acid</b>	60	NA	Not Available	737.19	Ex-Bhiwandi
<b>G</b>	<b>Glycerine</b>	69	70	-1.00	847.77	CIF Nha- va Sheva
<b>H</b>	<b>N-Heptane</b>	182	185	-3.00	2236.15	Ex-Bhiwandi
	<b>Hexane</b>	78	79	-1.00	958.35	Ex-Kandla
	<b>Hydrogen Perox- ide- 50%</b>	34 (35 NPL, 35 Maghmani)	NA	Not Available	Not Availabale	Ex-Bhiwandi
<b>I</b>	<b>Isobutanol</b>	98	100	-2.00	1204.08	Ex-Kandla
	<b>IsoPropyl Alcohol</b>	87/88	88/90	Not Available	Not Availabale	Ex- Kandla/ Ex- Mumbai
<b>L</b>	<b>LAB</b>	142	140	2.00	1744.69	Imported
<b>M</b>	<b>Maleic Anhydride- Drum</b>	94	95	-1.00	1154.93	Ex-Mumbai
	<b>MDC</b>	70	NA	Not Available	860.06	Ex-Dahej
	<b>MEG</b>	52	51	1.00	638.90	Ex-Mumbai
	<b>MEK</b>	108	109	-1.00	1326.94	Ex-Kandla
	<b>Melamine</b>	108	103	5.00	1326.94	Imported
	<b>Meta Para Cresol</b>	305	310	-5.00	3747.39	Ex-Bhilai
	<b>Methanol</b>	29.5-30	30.5	Not Available	Not Availabale	Ex- Kand- la/Ex- Mumbai
	<b>MIBK</b>	140	139	1.00	1720.11	Ex-Kandla
	<b>Mix Xylene-Sol- vent Grade</b>	82.5	81	1.50	1013.64	Ex-Kandla
	<b>Mix Xylene-Sol- vent Grade</b>	84.5	83	1.50	1038.21	Ex-Mumbai
	<b>Mix Xylene-Iso Grade</b>	83	82	1.00	1019.78	Ex-Kandla
	<b>Mix Xylene-Iso Grade</b>	NA	83	Not Available	Not Availabale	Ex-Mumbai
	<b>MMA</b>	138	140	-2.00	1695.54	Ex-Kandla
<b>N</b>	<b>N-Butanol</b>	93	94	-1.00	1142.65	Ex- Kandla/ Ex- Mumbai
	<b>N-Propanol</b>	119	120	-1.00	1462.10	Ex-Kandla
<b>O</b>	<b>Octanol</b>	117	118	-1.00	1437.52	Ex-Hazira
	<b>Ortho Cresol</b>	275	285	-10.00	3378.79	Ex-Bhilai
	<b>Ortho Xylene</b>	102 (103 Reliance Gujrat)	103	Not Available	Not Availabale	Ex-Mumbai



<b>P</b>	<b>Phenol</b>	99	100	-1.00	1216.37	Ex- Kandla/ Ex- Mumbai
	<b>Phenolic Resin</b>	168	165 (170 Mum.)	Not Available	2064.14	Ex-Indore
	<b>Phthalic Anhydride</b>	102	101	1.00	1253.23	Ex-Bhiwandi
	<b>Propylene Glycol</b>	96	95	1.00	1179.51	Ex-Kandla
	<b>PVC Resin</b>	105	106	-1.00	1290.08	Ex-Mum- bai Market
<b>S</b>	<b>Sodium Nitrate (25Kg Bag)</b>	98	98	0.00	1204.08	Ex-Taloja Plant(Make- Lasons)
	<b>Soda ash light</b>	38	60	-22.00	466.89	Ex-Bhiwandi
	<b>Styrene Monomer</b>	105	104	1.00	1290.08	Ex-Kanlida
	<b>Styrene Monomer</b>	105	106	-1.00	1290.08	Ex-Mumbai
	<b>Sulphuric Acid</b>	5 Vapi / 8 kolk- ata	5 Vapi / 9 kolkata	Not Available	Not Availabale	Ex-Vapi
<b>T</b>	<b>Tio2(Anatase Grade)</b>	190	190	0.00	2334.44	Ex-Bhiwandi
	<b>Tio2(Rutile Grade)</b>	210	210	0.00	2580.17	Ex-Bhiwandi
	<b>Toluene</b>	79.5	78	1.50	976.78	Ex-Kandla
	<b>Toluene</b>	80.5	79	1.50	989.06	Ex-Mumbai
<b>V</b>	<b>VAM</b>	96	97	-1.00	1179.51	Ex-Kandla
	<b>VAM</b>	97	99	-2.00	1191.79	Ex-Hazira
	<b>2,4-2,5 Xylenol</b>	220	225	-5.00	2703.03	Ex-Bhilai
	<b>2,3 Lutidine</b>	510	520	-10.00	6266.13	Ex-Bhilai
	<b>3,5 Lutidine</b>	310	320	-10.00	3808.82	Ex-Bhilai

**Note-Above prices have been collected from experts and experienced outsources of the industry. Kindly verify from your end as well. Above prices are Exclusive of GST**

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## Producer Prices (Rs/kg) of Chemicals as on 13/01/2023

Producers	Chemicals Name	Current Price (Rs/kg)	Import parity price in USD/MT	Production capacity	Location
RIL	Toluene	79.5	976.78	100,000 tonnes/year	Hazira
	Mix Xylene	80.5	989.06	120,000 tonnes/year	Dahej
	MEG	53.9	662.24	750,000 tonnes/year	Jamnagar
	DEG	64.1	787.57	65,000 tonnes/year	Jamnagar
	TEG	110.8	1361.35	NA	Jamnagar
	LAB	NA	Not Available	180,000 tonnes/year	120ktpa Patalganga, 60ktpa Vadodra
	PTA	77.6	953.43	1300000 tonnes/year	Dahej
IOCL	LAB	NA	Not Available	120,000 tonnes/year	Koyali, Gujarat
	Paraffin Wax	112	1376.09		
Deepak Phenolics	Phenol	99	1216.37	200,000 tonnes/year	Dahej
	Acetone	65	798.62	120,000 tonnes/year	Dahej
	IPA Bulk	86	1056.64	30,000 tonnes/year	Dahej
Arham Petrochem Pvt Ltd	C9	86.75	1065.86	69,000 tonnes /year	Arham - Kandla En-ergy & Chemicals Ltd Refinery
	C9	87.75	1078.14	69,000 tonnes /year	Arham - Ahmed-abad Refinery
	C10	104.5	1283.94	30,000 tonnes /year	Arham - Kandla Energy & Chemicals Ltd Refinery
	C10	104	1277.80	30,000 tonnes /year	Arham - Ahmedabad Refin-ery
	C10 - Imported Repack	117.75	1446.74	30,000 tonnes /year	Bhiwandi Ware-house
HOCL	Phenol	112	1376.09	40,000 tonnes/year	Kochi
	Acetone	63	774.05	24640 tonnes/year	Kochi



SI GROUP	Phenol	103	1265.51	39500 tonnes/year	Ratnagiri, Maharashtra
	Acetone	64	786.34	24000 tonnes/year	Ratnagiri, Maharashtra
	Phthalic Anhydride	99	1216.37	11000 tonnes/year	Ratnagiri, Maharashtra
	Benzene	NA	Not Available	NA	NA
Andhra Petrochemicals	Octanol	110	1351.52	70,000 tonnes/year	Vishakhapatna m
	N-Butanol	90	1105.79	30,000 tonnes/year	Vishakhapatna m
	Iso-Butanol	90	1105.79	4000 tonnes/year	Vishakhapatna m
Adipic acid	Ex-Deepak	NA	Not Available		
	Ex-BASF	195	2395.87	210,000 tonnes/year	Germany
NIRMA	LAB	NA	Not Available	120,000 tonnes/year	Vadodra
TATA Chemicals	Soda Ash light	40	491.46	900,000 tonnes/year	Mithapur
GACL	Soda Ash light	NA	Not Available		
GNFC	Ethyl Acetate	81	995.21	60,000 tonnes/year	Bharuch
	Acetic Acid	40	491.46	160,000 tonnes/year	Bharuch
	TDI Drum	224	2752.18	67000 tonnes/year	Bharuch
	Aniline Oil	143	1756.97		Bharuch
BPCL	Benzene	68.3	839.17	90,000 tonnes/year, Mumbai Refinery,	87000 tonnes/year, Kochi
	Toluene	79.5	976.78	16,000 tonnes/year	Kochi Refinery
	Hexane(kl)	88.1	1082.44	35,000 tonnes/year, Kochi	Mumbai Refinery
	Hexane(MT)	132.6	1629.19	35,000 tonnes/year,	Mumbai Refinery
	Paraffin Wax	111	1363.80		
	Sulphur(Molten)	19.4	238.36	19,000 tonnes/year	Kochi Refinery





	Acrylic Acid (Bulk)	92	1130.36	47000 tonnes/year	Kochi Refinery
	Acrylic Acid (Packed)	101	1240.94		Kochi Refinery
	2-Ethyl Hexanol (B)	112	1376.09	47000 tonnes/year	Kochi Refinery
	2-Ethyl Hexanol (P)	122.5	1505.10		Kochi Refinery
	N-Butanol(B)	83.5	1025.92	38000 tonnes/year	Kochi Refinery
	N-Butanol(B)	88	1081.21		Kandla Installation
	N-Butanol(P)	98.5	1210.22		Kochi Refinery
	Iso-Butanol(B)	85	1044.35	7000 tonnes/year	Kochi Refinery
	Iso-Butanol(P)	96	1179.51		Kochi Refinery
	Butyl Acrylate (B)	100	1228.65	180000 tonnes/year	Kochi Refinery
	Butyl Acrylate (B)	102	1253.23		Kandla Installation
	Butyl Acrylate (P)	110	1351.52		
	2-Ethyl Hexyl Acrylate(B)	112	1376.09	10000 tonnes/year	Kochi Refinery
	2-Ethyl Hexyl Acrylate(P)	134	1646.39		Kochi Refinery
MDC	Grasim	NA	Not Available	33000 tonnes/year	Nagda, Madhya Pradesh
	Meghmani	60	737.19	397500 kg/month	Ankleshwar, Gujarat
	GACL	61	749.48	40 tonnes/month	Bharuch, Gujarat
	GFL	60	737.19	NA	Bharuch, Gujarat
Ethyl Acetate	GNFC	81	995.21	50000 tonnes/year	Bharuch, Gujarat
	Accord	81.5	1001.35		
	Satyam	81	995.21	50 tonnes/day	Nevasa, Maharashtra
	Somaiya	82	1007.49	400ltr/day	Ahmednagar, Maharashtra
	Jubilant	81.5	1001.35	280 tonnes/day	Gajraula, U.P
	Laxmi	81.5	1001.35	100000 tonnes/annu m	Mahad, Maharashtra



Caustic Soda Lye	Meghmani	42	516.03	400000 tonnes/annu m	Bharuch, Guja-rat
	DCM	NA	Not Available	35000 tonnes/annu m	Bharuch, Guja-rat
	GACL	NA	Not Available		
	GFL	NA	Not Available	110000 tonnes/annu m	Dahej, Gujarat
	Rayalseema	NA	Not Available	69500 tonnes/annu m	Kurnool Distric, Andhra Pradesh
GSFC	Cyclohexane	92.5	1136.50	NA	Gujarat
	Cyclhexanone	NA	Not Available	NA	Gujarat

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## New Chemical Products Listed on Chemical Market Leads Platform

### PHOSPHORIC ACID / 7664-38-2



CAS-Number :-7664-38-2

Molecular Formula :- H<sub>3</sub>PO<sub>4</sub>

Molecular Weight :-97.994 mol/g

Available Qty :- Kgs

Package Size :- DRUM

Price :- Available on Request

Markets :- Basic Chemicals | Paints & Coatings |

**Description:** Liquid Grade Standard: Industrial Grade Packaging Type: Drum Appearance: White Solid Or Colorless. Finds Application In: Food items, Beverages, Dust removals, Absorbing agents.

### TANPOL CARBOMER POWDER / 9003-01-04



CAS-Number :- 9003-01-04

Molecular Formula :-(C<sub>3</sub>H<sub>4</sub>O<sub>2</sub>)N

Molecular Weight :- 72.06 mol/g

Available Qty :- Kgs

Package Size :- Bag

Price :- Available on Request

Markets :- Basic Chemicals | Paints & Coatings |

**Description :** Powder Grade Type: 940, 980, 934, 941, 974, 971, 950, 996,974P , 934P , 971G, 912G. Grade Standard: Technical Grade Packaging Type: Bag Colour: White Usage/Application: This ingredient is contained in a wide range of personal care products such as styling gel.



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# BASF Virtual Lab Launches Science Experiments in Thai on National Children's Day

- 3 games for the first time available in Thai to help kids explore chemistry anytime, anywhere
- Free of charge for children 6-12 years old with fun online experiments
- Extension of global program BASF Kids' Lab to nurture next generation of scientists

**B**angkok, Thailand – January 11, 2023 – For the first time BASF introduced three chemistry experiments in Thai language on BASF Virtual Lab, an online platform that allows children to do a variety of interactive chemistry experiments. The effort is to help students aged 6-12 explore the amazing world of chemistry through fun hands-on experiments, hence igniting their passion for natural sciences from an early age with just a click. The launch also celebrates National Children's Day, which occurs on the second Saturday of January.

From the three newly launched experiments, the "Energy from the Sun" experiment helps kids discover how a solar cell works and how it converts as much sunlight as possible into environ-

mental friendly energy sources. In the "Sweet Bread" experiment, the students will learn about enzymatic degradation and the various nutrients contained in food. Through the "Plastic Pros" experiment, children will learn about how one can use different properties of plastics to separate plastic waste, one of the major steps in the recycling process, as well as to understand the benefits of plastics and responsible use of plastics in our life.

"Children are the future of a country and investing in the next generation is everyone's responsibility. At BASF, we contribute by nurturing the young science enthusiasts and by helping them explore the amazing world of chemistry anytime, anywhere with the three science experiments in Thai language on BASF Virtual Lab. We hope our efforts will inspire children to discover the excitement of science in the virtual world and enrich their learning," said Roschan Lohakitsongkam, Group Managing Director of Thailand and Vietnam, BASF.

BASF Virtual Lab, an extension of BASF's global hands-on chemistry education program Kids' Lab, provides a wide range of interactive experiments online. Each experiment contains easy-to-understand explanations. Under the expert guidance of the animated Kids' Lab mascot Dr. Bubbles, children can explore the world of chemistry anytime, anywhere. Further, new experiments will be continuously added. The Virtual Lab is also available in German, English, and many other languages, such as Dutch, Spanish, Chinese, Korean, Japanese, Vietnamese and Indonesian at [www.kidslabthailand.com](http://www.kidslabthailand.com)

BASF in Thailand has been active in multiple community projects with a focus in education development, including school renovation, scholarship donation and public playground building. BASF Kids' Lab program was introduced in Thailand since 2004 to help more than 10,000 students explore the wonders of chemistry in daily life through safe and enjoyable hands-on experiments.

Source : BASF

# CTCI Corporation Receives EPC Project Award from Ras Laffan Petrochemicals to Build One of the World's Largest Ethylene Plants

**T**AIPEI, Jan. 9, 2023 /PRNewswire/ -- CTCI Corporation, one of the world's leading engineering, procurement, and construction (EPC) companies announced today that it was

awarded a portion of the Ras Laffan Petrochemicals Project (RLPP), which includes the ethylene unit and its utilities. This project is located in Ras Laffan Industrial City, Qatar. Once completed,

the ethylene plant will be one of the largest in the world by capacity. The project consists of the ethylene unit and two high-density polyethylene units. The total cost of the project is \$6 billion and





startup is anticipated in late 2026. CTCI is executing this project with Samsung Engineering as the "Samsung Engineering CTCI Joint Venture" (SCJV).

The client, Ras Laffan Petrochemicals (RLP), is a joint venture between QatarEnergy and Chevron Phillips Chemical. The companies are building petrochemical projects in Qatar and the United States. Michael Yang, Chairman of CTCI Corporation, said, "We appreciate the trust that Ras Laffan Petrochemicals has placed in us through this monumental opportunity for our team. We will utilize quality engineering and safety management to complete the task on time and up to standards."

The Ras Laffan Petrochemicals Project consists of two packages. The SCJV was awarded Package 1, which is to build a 2.08 million tons ethylene production unit, utilities, and office facilities. Samsung Engineering will be in charge of engineering for the major ethylene production facilities with scope of work including C2 hydrogenation, hydrogen

purification unit, and three main compressors. CTCI Corporation will be in charge of engineering for the furnaces and utility infrastructure, including steam/condensate collecting, boiler feed water, etc. Procurement and construction work will be carried out jointly by the SCJV. The ethylene produced will be delivered as feedstock to Package 2, which encompasses two high-density polyethylene units.

For over four decades, CTCI Corporation has completed numerous challenging mega-projects in the refinery, petrochemical, LNG, and chemical sectors. Notable successes in recent years include: completing the world's largest onshore modularized project for Gulf Coast Growth Ventures to produce 1.1 million tons mono-ethylene glycol annually in the US; and setting an all-time high record of 77 million man-hours without a lost-time injury in the Liwa Plastics Industries Complex petrochemical EPC project in Oman. CTCI's other successes in Qatar include completing the furnace and ethylene tank project, as

well as the Laffan Condensate Refinery expansion project.

**Thanks to the extensive experience in petrochemical facility engineering, CTCI Corporation has won the trust of RLP. The SCJV plans to provide exceptional schedule management to the client by applying innovative strategies such as modularization, automation, as well as purchasing key equipment and materials before the engineering process is finalized. The contract award is another major boost to CTCI's global presence and operations.**

Source : PRNewswire

## Pusan National University Researchers Develop Efficient Sodium-Ion Battery Anode for Energy Storage

**B**USAN, South Korea, Jan. 6, 2023 / PRNewswire/ -- Lithium is expensive and limited, necessitating the development of efficient energy storage systems beyond lithium-ion batteries. Sodium is a promising candidate. However, sodium ions, being large and sluggish, hamper sodium-ion battery (SIB) anode performance. Researchers from Korea and USA have recently developed pyrolyzed quinacridones, new carbonaceous SIB anode materials, that are efficient, easily prepared, and exhibit excellent electrochemical properties, including high sodium-ion storage performance and cycling stability.

Climate change is a major global concern of the present century. It is necessary to reduce carbon emissions by utilizing renewable energy sources and developing efficient energy storage systems. Lithium-ion batteries have high energy density and a long cycle life, making them indispensable in portable electronics as well as electric vehicles. However, the high cost and limited supply of lithium necessitate the development of alternative energy storage systems. To this end, researchers have suggested sodium-ion batteries (SIBs) as a possible candidate.

Besides having physicochemical prop-

erties similar to that of lithium, sodium is both sustainable and cost-effective. However, its ions are large with sluggish diffusion kinetics, hindering their accommodation within the carbon microstructures of the commercialized graphite anodes. Consequently, SIB anodes suffer from structural instability and poor storage performance. In this regard, carbonaceous materials doped with heteroatoms are showing promise. However, their preparation is complicated, expensive, and time-consuming.

Recently, a team of researchers, led by Professor Seung Geol Lee from Pu-



san National University in Korea, used quinacridones as precursors to prepare carbonaceous SIB anodes. "Organic pigments such as quinacridones have a variety of structures and functional groups. As a result, they develop different thermal decomposition behaviors and microstructures. When used as a precursor for energy storage materials, pyrolyzed quinacridones can greatly vary the performance of secondary batteries. Therefore, it is possible to implement a highly efficient battery by controlling the structure of organic pigments precursor," explains Prof. Lee. Their study was made available online on 17 October 2022 and will be published in Volume 453, Part 1 of the Chemical Engineering Journal on 1 February 2023.

The researchers focused on 2,9-dimethylquinacridone (2,9-DMQA) in their study. 2,9-DMQA has a parallel molecular packing configuration. Upon pyrolysis (thermal decomposition) at 600°C, 2,9-DMQA turned from reddish to black with a high char yield of 61%. The researchers next performed a com-

prehensive experimental analysis to describe the underlying pyrolysis mechanism.

**They proposed that the decomposition of methyl substituents generates free radicals at 450°C, which form polycyclic aromatic hydrocarbons with a longitudinally grown microstructure resulting from bond bridging along the parallel packing direction. Further, nitrogen- and oxygen-containing functional groups in 2,9-DMQA released gases, creating disordered domains in the microstructure. In contrast, pyrolyzed unsubstituted quinacridone developed**

**highly aggregated structures. This suggested that the morphological development was significantly affected by the crystal orientation of the precursor.**

In addition, 2,9-DMQA pyrolyzed at 600°C exhibited a high rate capability (290 mAh/g at 0.05 A/g) and excellent cycle stability (134 mAh/g at 5 A/g for 1000 cycles) as an SIB anode. The nitrogen- and oxygen-containing groups further enhanced battery storage via surface confinement and interlayer distance increment.

"Organic pigments such as quinacridones can be used as anode materials in sodium-ion batteries. Given the high efficiency, they will provide an effective strategy for mass production of large-scale energy storage systems," concludes Prof. Lee.

Source : PRNewswires

## TotalEnergies joins NEXTLOOP to Accelerate the Development of Food-Grade Recycled Polymers

**B**russels, January 9, 2023 – TotalEnergies has joined NEXTLOOP, an initiative bringing together 47 companies from the plastics value chain that aims to create food-grade recycled polymer from advanced mechanical recycling.

Launched in October 2020 by Nextek Ltd, NEXTLOOP is a global multiparticipant and award-winning project with the objective to produce high-quality recycled polypropylene that is suitable for food-grade applications and made from post-consumer

packaging material.

The project deploys pioneering technology to efficiently and cost-effectively sort food-grade polypropylene (PP) from post-consumer material and then

decontaminate the polymer to comply with stringent food-grade standards. NEXTLOOP has recently completed a landmark study of background

contamination of post-consumer PP packaging for its submissions to food safety authorities in Europe (EFSA), in

the United States (USFDA) and in the United Kingdom (UK FSA).

TotalEnergies is committed to the development of a circular economy for plastics and to meet the growing customer demand for high-quality recycled polymers. In that context, TotalEnergies will leverage this technological partnership to accelerate the feasibility review of advanced mechanical recycling projects targeting food contact and further expand its recently launched RE:use polymers range which contain mechanically recycled raw materials.

**"We are delighted to join**



**and support the NEXT-LOOPP project, alongside other major industry players,” said Nathalie Brunelle, Senior Vice President Polymers at TotalEnergies. “This initiative will allow us to go one step further in developing technolo-**

**gies to produce food-grade recycled material from advanced mechanical recycling and broaden our options for projects that contribute to our ambition to produce 30% circular polymers by 2030.”**

Professor Edward Kosior, founder and CEO of Nextek Ltd and NEXTLOOPP says: “The whole of the NEXTLOOPP project is strengthened by TotalEnergies’ adding to the programme their extensive technical capabilities in creating circular solutions for PP resins. They contribute to the growing body of expertise in controlling the properties and formulation of their range of both virgin and recycled PP for a myriad of applications.”

Source : Press Release

## Yara is Speeding Up the Hydrogen Economy in Germany

**Y**ara International plans to modify its ammonia terminals in Germany and will enable handling of up to 3 million tons of ammonia. This equates to roughly 530,000 tons of hydrogen and will help speed up the hydrogen economy in Germany.

Beyond being a vital component of fertilizers for food, clean ammonia is a sustainable source of feedstock to industries and applications. Ammonia is a hydrogen carrier of energy for use in the transport sector and as a carbon-free shipping fuel. It may also be used as an emission-reducing additive to coal-fired power plants. Yara aims to increase its production of clean ammonia globally to be able to supply Germany's emerging market.

**Yara made the announcement during Vice-Chancellor Dr. Robert Habeck's visit to Norway.**

"Dr. Habeck and other German leaders have been crystal clear in their ambitions to ramp-up the hydrogen economy. As a response, I'm proud to say that Yara has identified a substantial potential to increase ammonia imports to Germany in line with growing market demand", says CEO of Yara International, Svein Tore Holsether.

"By summer 2023 our export terminal in Brunsbüttel will be modified to import as well. In addition, the terminal in Rostock can increase the imported volumes. In total Yara would be able to deliver 3 million tons of clean ammonia if demand is there. With additional tank capacity we can expand our import capacity much further", says Yves Bauwens, Plant Manager in Brunsbüttel.



### **Clean ammonia is an effective hydrogen carrier**

Following one of the greatest German inventions in the 20th century, Yara has almost 100 years of experience using the Haber-Bosch process to produce ammonia. Today Yara is the world's largest ammonia distributor with the largest global production- and transport infrastructure. Already a major hydrogen player, Yara produces and consumes approximately 7% of European hydrogen.

Yara's subsidiary Yara Clean Ammonia is currently rolling out a portfolio of decarbonized ammonia production. Green ammonia is produced with re-

newable energy and electrolyzers. The carbon emissions from blue ammonia production are captured and permanently stored. Together they amount to clean ammonia.

"As we develop our decarbonized projects across the world, we will import clean ammonia to Germany using Yara's fleet of ammonia carriers, the largest in the world", says Magnus Krogh Ankarstrand, President of Yara Clean Ammonia.

### **Yara operates the largest ammonia storage in Germany**

New ammonia storage requires significant investments in addition to operational and safety experience. Yara's existing assets and competencies will be critical for a speedy ramp-up.

"Yara operates two deep sea terminals for ammonia in Brunsbüttel and Rostock. In Rostock Yara currently imports 600 kt of ammonia annually. This is Germany's largest ammonia storage capacity", says Thomas Schmitz, Plant Manager in Rostock.



"Yara Deutschland and Yara Clean Ammonia are excited to be working closely with the German Government on a local and federal level and with German business partners to enable the German hydrogen economy through its ammonia infrastructure and almost 100 years of operational experience", says Magnus Ankarstrand.

### **The ammonia link between Norway and Germany**

Yara was founded in Norway in 1905 to combat the famine threatening Europe at the time. Today, it is a global crop nutrition company, with operations in over 60 countries around the world. Yara Deutschland GmbH is the largest ammonia and fertilizer compa-

ny in Germany and a leading player in the German industrial nitrogen market. Yara International's subsidiary Yara Clean Ammonia is the world's largest ammonia distributor, developing multiple clean ammonia projects world-wide, including in Germany.

Source : Yara

## **QatarEnergy, Chevron Phillips Chemical to Begin Construction on Integrated Polymers Complex in Ras Laffan Industrial City, Qatar**

**Q**atarEnergy and Chevron Phillips Chemical Company LLC announced today they will proceed on construction of a \$6 billion integrated polymers complex in Ras Laffan Industrial City, Qatar.

An agreement marking the positive final investment decision for the project was signed by His Excellency Mr. Saad Sherida Al-Kaabi, the Minister of State for Energy Affairs, the President and CEO of QatarEnergy, and by Bruce Chinn, President and CEO of Chevron Phillips Chemical, at a ceremony in Doha. The companies created a joint venture, Ras Laffan Petrochemicals, in which QatarEnergy owns a 70% equity share and Chevron Phillips Chemical owns 30%.

The 435-acre project site will include an ethane cracker with a capacity of 2080 KTA of ethylene, making it the largest ethane cracker in the Middle East and one of the largest in the world. It will also include two high-density polyethylene derivative units with a total capacity of 1680 KTA.

Chevron Phillips Chemical will provide project management services. Construction began with early works at the site in June 2022, and startup is expected in late 2026. The engineering, procurement and construction of the eth-

ane cracker will be executed by a joint venture between Samsung Engineering CO., Ltd. and CTCI Corporation. Tecnimont S.p.A. will execute engineering, procurement and construction for the polyethylene units.

**The polyethylene units will use Chevron Phillips Chemical's MarTech™ loop slurry process to produce high-density polyethylene, which will primarily be exported from the state of Qatar. Polyethylene is used in the production of durable goods like pipe for natural gas and water delivery and recreational products such as kayaks and coolers. It is also used in packaging applications to protect and preserve food and keep medical supplies sterile.**

The facility will be constructed with modern, energy-saving technology and use ethane for feedstock, which along with other measures, is expected to result in lower greenhouse gas emissions than similar global facilities.

**"At Chevron Phillips Chemical, we continue to grow our global asset base where there is access to reliable, affordable feedstock. This investment will help meet global demand for polyethylene products," Chinn said. "We are excited to expand on the long and successful history we have with QatarEnergy to safely construct and operate world-scale facilities."**

Attending the signing ceremony were senior executives from QatarEnergy, Chevron Phillips Chemical and its owner companies, Chevron U.S.A. Inc. and Phillips 66.

Chevron Phillips Chemical and QatarEnergy operate joint ventures in Qatar and recently announced construction of a similar integrated polymers facility in Orange, Texas.

Source : Chevron Phillips Chemical





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