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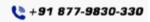
- Potassium tert-butoxide, 1M in Tert butanol & THF
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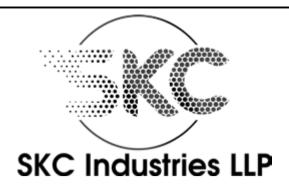
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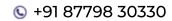
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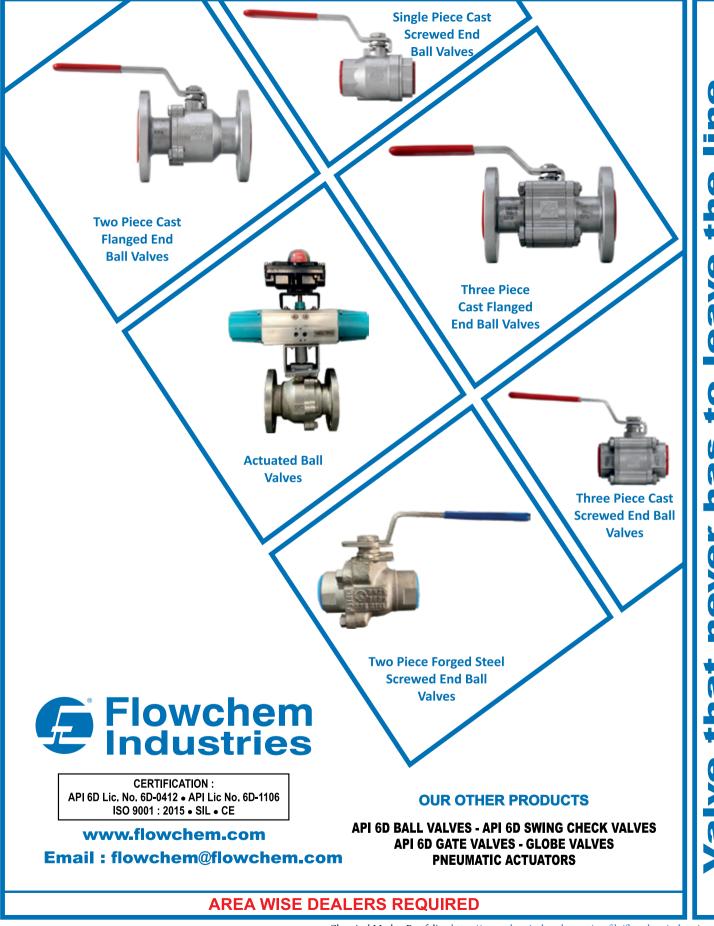












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Ammonium Nitrate	50 Kgs	30.00			
Ammonium Phosphate (Mono)	50 Kgs	135.00			
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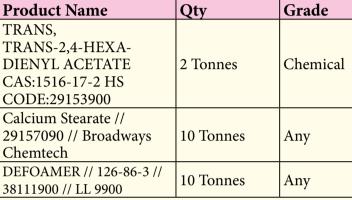
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11 	150 Drums	Industrial
"	150 Drums	Industrial

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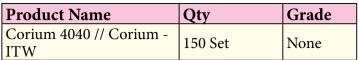
Rizve

Bangladesh

Mobile: 01771408701

Email: abi traders@gmail.com computerexplore@vahoo.com





Details: corium 4040 150 set

Rejaul Karim Sajed

Bangladesh

Mobile: +8801749606010

Email: sajed.pacific@gmail.com



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

Details: Share the contact details for take it further

Sachin Goyal

Gurgaon, Haryana, India **Mobile:** +8801749606010

Email: sachin.goyal@amway.com

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

Details: grain size in mm: 0.1-0.4

Jinzhao Wang

Shanghai

Mobile: +86 18607325634 Email: 1819337181@qq.com



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

Details: P3SA High Purity **Dr Yogesh T Naliapara** Rajkot, Gujarat, India **Mobile: 9428036310**

Email: naliaparachem@gmail.com



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

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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

Naresh Kumar

Hyderabad, Telangana, India

Email: info@orbitchempharmaceuticals.com

Mobile: 7981397566



Product Name	Qty	Grade
Potassium Aluminium Fluoride Lumps // Jain- son Chemicals	12 Grams	Industial

Chemical

Tambaram, Chennai, Tamil Nadu, India

Email: Narendradeepak54@gmail.com

Mobile: 9289394516



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

Chuck Fournier

Brockville, ON, Canada

Email: creativeconcreteind@gmail.com

Tel.: 613-340-0789



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

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

Sangita Yadav Mumbai

Email: sangitaenteprises13@gmail.com

Mobile: +7400485927

Product Name	Qty	Grade
Corium Z190 // Corium - ITW	150	Any

Details: Supply of corium Z-190

Jignesh Shah

Boisar, Maharashtra, India Email: jignesh@unimax.co.in

Tel.: 7715979989



Product Name	Qty	Grade
n-Butyllithium solution 2.5 M in THF // 109-	3 Litres	Industrial
72-8 // B016	3 Entres	IIIddotiidi

Details : kindly quote for 3 lit of n-Butyllithium solution

2.5 M in THF for Price and lead time

Jacquline

Hyderabad, Telangana, India

E-mail: <u>info@jlslabs.in</u> Mobile: +91 7032999045



Product Name	Qty	Grade
Triethylsilane 98% //	500	Industrial
617-86-7 // T36710	Grams	industriai

Details: Triethylsilane 98% / 617-86-7 / T36710, Grade,

0.0000 g/500g

HONEST TRADERS Vadodara, Gujarat, India

Email: honestchem3@gmail.com

Mobile: 6351770203



Product Name	Qty	Grade
Plast Retard PE // Powder Retarding Agent // 38244000 // Sicit Group SPA	100 Kgs	Industrial

Details: Need to increase setting time

A K Jindal

Guwahati, Assam, India

Email: jindalindustries1@rediffmail.com

Mobile: 9435047115



Product Name	Qty	Grade
Nigrosine Black Dyes // 101357-32-8 // Acid Black 2	1 Cans	Industrial

Gary Brent

Auckland, New Zealand

Email: gary.brent@washtech.co.nz









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Buy Enquiries

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.

Sook Young Yoon

Gyeonggi-do, South Korea Email: <u>syyun@jtcs.co.kr</u> Mobile: +8203180168258



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

Shahadat Hossain Dhaka, Bangladesh

Email: ahnaftrading2020@gmail.com

Mobile: 01626784224



Product Name	Qty	Grade
Plast Retard PE // Powder Retarding Agent // 38244000 // Sicit Group SPA	200 Kgs	Chemical

Details : Pawan Delhi, India

Email: puchase@sakarni.com

Mobile: 9711142077



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

Details: Multi compendial IP BP USP

Deepak Kala

Hyderabad, Telangana, India

Email: deepak.kala@vbshilpa.com

Mobile: 7060555929



To Post your enquiries contact info@chemicalmarket.net or visit

https://www.chemicalmarket.net/search

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

Nandakishore

Bangalore, Karnataka, India E-mail : <u>nkshetty@wilber.co.in</u>

Mobile: 9019650701



Product Name	Qty	Grade
Corium Z190 // Corium - ITW	150	Any

Details: Supply of corium Z-190

BHARDWAJ

Noida

Email: bhardwaj.adityaenterprises@gail.com

Mobile: 9560192984



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 Nirupam Jhanwar Jaipur, Rajasthan, India

Email: njhanwar09@gmail.com

Mobile: 9828051426



Product Name	Qty	Grade
Sulphur Granules // Jainson Chemicals	30 Tonnes	Industrial

Details: GRANULATED SULPHUR

DERRICK MWANSA

Chingola Central, Chingola, Zambia

Email: derrick.mwansa@rgpm-group.com

Mobile: +260977592183



Product Name	Qty	Grade
caustic soda flakes 98% // sodium hydroxide // 1310-73-2 // 281511 // Arax Chemistry	2 Tonnes	Technical
Caustic Soda	1 Tonnes	Technical

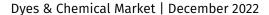
Details: ASAP

Sahil Ahmedabad

Email: SAHILBAJ28@GMAIL.COM







Buy Enquiries

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

Mike Chang

Pasadena, CA, USA

Email: production@magsphere.com

Mobile: 6265849222



Product Name	Qty	Grade
Phthalimide // 85-41-6	1000 Kgs	Industrial

Details: Pls quote for Phthalimide Acid

Pradeep Sharma

Ahmedabad, Gujarat, India

Email: gangachemic@yahoo.com

Mobile: 9725050441



Product Name	Qty	Grade
Ethyl Trifluoroacetate // Ethyl Trifluoroacetate // 383-63-1	3000 Kgs	Technical

Details: please quote price of ETFA for 3000 kgs.

KETAN MEHTA

Mumbai

Email: chempharmaindia@gmail.com

Mobile: +919833619696



Product Name	Qty	Grade
Potassium Carbonate	750	Industrial
Granular	Kgs	maustriai
Cadium Mitrata	1500	Industrial
Sodium NItrate	Kgs	mustriai
Caustic Soda Flakes	2000	Industrial
Caustic Soda Flakes	Kgs	mustral

Details: GACL Rayon Grade Potassium Carbonate -

Equal to UBID Korea Jayesh Industries Ltd

Utpal Shah

Mumbai, Maharashtra, India Email: utpal@jayeshgroup.com

Mobile: 9820144091



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
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.

EXPORTS PARTNER

Exports Partner

Mumbai, Maharashtra, India Email: <u>info@exportspartner.com</u>

Mobile: 9869652350



Product Name	Qty	Grade
Glycerine	5000 Kgs	Industrial
	10-	

Details: Please quote your best price

ASHOK ARORA

Kolkata

Email: ashokarora1@gmail.com

Mobile: 9331017553



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

Details:

Milton Ribeiro São Paulo, SP, Brasil

Emsil: miltonribeiro@vivacor.com.br

Mobile: 5511 968291990



Product Name	Qty	Grade
2-Aminobenzotrifluoride	500	Technical
/ CAS 88-17-5.	Kgs	Technical
5-acetylacetamidoben-	2	
zimidazolone /CAS:	Tonnes	Technical
26576-46-5 ·	Tonnes	

Details: 1) We need 500 kilos for pigment production

2) We need 2 Tonnes

GLOBEX LABORATORIES

PRAVIN IYER

Vadodara, Gujarat, India

Email: pravin.iyer@atpigments.com









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

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

PYRO TRADE LINK

Sunairaja. t

Sivakasi, Tamil Nadu, India Email: pyrocheme@gmail.com

Mobile: 9443164779



Product Name	Qty	Grade
Corium Z202R // Cori-	24	None
um - ITW	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

Majibur Rahman Dhaka, Bangladesh

Email: mojib.textile@gmail.com

Mobile: +8801611884448



Product Name	Qty	Grade
n-Butyllithium solution 2.5 M in THF // n-Butyl- lithium solution 2.5 M in THF // 109-72-8 // B016	1 Milil- itres	Chemical

Details: Research

AGA

Gandhinagar, Gujarat, India

Email: mailtognlabcug@yahoo.com

Mobile: 6398744197



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

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

David Ding Singapore

Email: dingzhusong1972@yahoo.com

Mobile: 006591058487



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

ABHAY HINGARH

Mumbai

Email: jovikaenterprise@gmail.com

Mobile: 09821011976



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

Sonali S

Mumbai, Maharashtra, India Email : <u>sonali.s@clearsynth.com</u>

Mobile: +91.22.45045945



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

Rajshri Waghmare

Pune, Maharashtra, India

Email: scm@demechchemical.com









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Sonam Parikh

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CHEMICAL MARKET

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

What is happening and is it too confusing?

The US stock market is bust. The world over there is turmoil, ongoing war in Ukraine, inflation, increasing interest rates, lower retail numbers in the US and the ongoing pandemic fears in China as per news reports however, the Indian Stock Market is rallying. Why is there a stark difference in the markets when things were going good with the US markets for several years? Is US losing its winning streak? Is the political game in the US affecting the people and the world? Are people happy with the way the US Fed is increasing its interest rates? Whatever US does was impacting the entire world. May be, it will still continue to dominate as the world leader but so far the Indian economy has been resilient and hasn't been red like the US stock market which has fallen to the bottoms from an all-time high. The big question is to understand how far the US market correction will go?

There has been surprising news as well. Recently there was a report on one of the news channels that mandarin (Chinese language) is being introduced in schools in Saudi Arabia. This was almost unheard of. Is Saudi Arabia using China to grow its influence and hedge against the US. According to one report, the current squabble between the US and Saudi Arabia is an opportunity to China. So it seems, it is both ways and they can work together going forward! China's increasing influence the world over is real and it has reached a stage where countries are moving away from the US and working with China. There have been several geo-political factors affecting trade in the last 2 years within India.

There have been new channels opening up for trade with Russia and China, which will be considered foul by the US as it has placed sanctions on Russia for its invasion on Ukraine and has always been at war with China in terms of trade. But in the end, the Indian government is playing it well such that the people of India benefits in all of these world political playground. The whole world story revolves around only one thing, and that's Energy. The more a country becomes energy independent, their dependence on every other country will reduce as the \$ that is spend on energy will be saved and energy will be harnessed by the renewal mode of energy generation like the sun, wind and hydro.

On another note, recently we attended the ChemLog India 2022 event at Mumbai. We met delegates from reputed companies all being a part of the logistics industry in the chemicals space. It was really a great event organized by Mr. Sharat Mishra and Mr. Shailendra Kumar and we hope this continues to reach great heights going forward.

There were several discussions and updates about how things will change or needs changes in the Chemicals Logistics sector. Over the 2 days, nearly 70 industry leaders and domain experts shared their views through several discussion sessions and teams created from different profiles. We have listed several exhibitions on our event profile page. Do review them for all your events needs in the chemical industry.

We also made several new customers on our leads platform and that continues to rise on a monthly basis. I am sure with time, chemical market leads platform will be a one source information for your needs in the chemical industry, whether it is for sourcing chemicals or sourcing technology related to the chemical industry.

-Rajiv Parikh







Research Reports Abstracts

Global Bioplastics Market Report 2022: Demand from Various End-Use Industries Including Automotive, **Packaging & Agriculture Drives Growth**

UBLIN, Dec. 13, 2022 /PRNewswire/ -- The "Bioplastics Market, by Product Type, by Application, by Region - Size, Share, Outlook, and Opportunity Analysis, 2022-2030" report has been added to Research And Markets.com's offering.

Market Dynamics

The global bioplastics market has witnessed significant growth in recent years, owing to the rising widespread awareness among consumers regarding environmental safety and benefits of bioplastics. Moreover, initiatives of regulatory bodies recommending adoptions of eco-friendly alternatives by the manufacturers, will further boost growth of the bioplastics market during the forecast period. This is expected to propel the growth of the bioplastics market all over the globe.

Major players in the global bioplastics market are increasing their investment on innovative product launchings, research & development and marketing & promotional activities from bioplastics to capitalize on emerging trends in various end-use industries such as food & beverages, packaging, automotive, consumer goods, agriculture and others. This is expected to fuel the market during the forecast period.

Increasing investment in the bioplastic for boosting production is expected to provide lucrative opportunities to the market. For instance, in January 2020, Stora Enso announced that it is investing US\$ 10 million to build an experimental plant for enabling the production of bio-based plastics as a barrier in transparent packaging.

The new plant will transform plantbased sugars into the renewable building block that is essential to make PEF, a biobased plastic, mainly targeting the food and beverage market. Increasing ban on single-use plastic especially across Europe and North America is projected to drive the bioplastics market in the near future.

Read the full report : https://www.researchandmarkets.com/r/yk6eaq If you want your report abstract to be published please contact info@chemicalmarket.net

LD Carbon Signed an MOU with Sumitomo Rubber Industries for the Commercialization of Recovered Carbon Black and Pyrolysis Oil

CEOUL, South Korea, Dec. 13, 2022 /PRNewswire/ -- Waste treatment and raw material recycling company LD Carbon (CEO Baek, Seong-mun and Hwang, Yong-kyung) announced that it had signed an MOU with 'Sumitomo Rubber Industries, Ltd.' for the commercialization of sustainable tire raw materials.

Sumitomo Rubber Industries is a global tire manufacturer head quartered in Japan, ranked global No.5 in terms of sales (approximately 7.25 billion USD) in the "2022 Global Tire Company Rankings" compiled by tirebusiness.com.

LD Carbon and Sumitomo Rubber Industries held a business agreement ceremony at the November 18 and promised to cooperate in the commercialization of recovered carbon black and pyrolysis oil.

Through this agreement, two companies will jointly develop products so that LD Carbon's GCB (Green Carbon Black) can partially replace existing carbon blacks that use fossil fuels. Based on its patented technology, LD Carbon produces Recovered Carbon Black (rCB) by utilizing the residue generated from the pyrolysis of waste tires and supplies it to tire and rubber product manufacturers.







LD Carbon and Sumitomo Rubber Industries jointly targeting to commercialize GCB-774G and GCB-600 series, aiming to replace the existing carbon black (N660) by up to 20% to 70%, respectively. In addition, they plan to promote commercialization of pyrolysis oil collected from waste tires. The commercialization volume targeted by the two companies by 2026 is 3,500 tons/year of GCB and 4,000 tons/year of tire pyrolysis oil.

In particular, the business agreement (MOU) signed by LD Carbon with Sumitomo Rubber Industries is meaningful in that it is the first business agree-

ment signed by LD Carbon with an oversea tire company.

Bum-seek Kim, Sales Director of LD Carbon, said "LD Carbon will continue to push its effort to be an eco-friendly carbon black manufacturer that leads the global market through steady cooperation with global tire manufacturers".

Meanwhile, LD Carbon is proceeding with the construction of a new plant equipped with shredding, pyrolysis and rCB facilities through an investment of more than 38 million USD, with the goal of completion by the end of 2023. The plants are expected to be able to

produce about 20,000 tons of GCB and pyrolysis oil every year. Upon completion LD Carbon's new plant will be the largest scale in Asia.

Read the full report: https://www.prnewswire.com/news-releases/ld-carbon-signed-an-mou-with-sumitomo-rubber-industries-for-the-commercialization-of-recovered-carbon-black-and-pyrolysis-oil-301700043.html

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Liaocheng China Speeds up in Green and Low-Carbon Transformation and Development

IAOCHENG, China, Nov. 22, 2022 / PRNewswire/ -- This is a report from Shandong Office of Hong Kong Business Daily. On November 10, a provincial project - Bisphenol A with an annual output of 1.2 million tons, was under construction in chemical industrial park of LUXI Group in High-Tech Industrial Development Zone. Not long ago, the first phase of the project with 200000 tons of Bisphenol A was tested successfully, and all the indicators are excellent, reaching the standard of Polycarbonate Grade Bisphenol A.

Focusing on the development and transformation of green and low-carbon development, Liaocheng, taking the three-year to strengthen the manufacturing industry as the starting point this year, has made efforts to build 20 major industrial chains, develop a number of big and excellent projects with high technology content, high added value and low resource and energy consumption, so as to promote the expansion of the investment scale and continuous optimization of the economic structure.

The investment in technological transformation in the manufacturing industry is particularly eye-catching among these investment projects. According to statistics, with a large mount of money invested by the government, the city's manufacturing technology innovation and investment increased by 31% in the first three quarters, 15.1 percentage points higher than the total investment.

The technological transformation and equipment upgrading inject new and strong impetus to the enterprise development and industrial transformation. Chiping Xinyuan Green Building Materials Co., Ltd. carried out the upgrading of the production line of new green building materials, turning pulverized fuel ash and other solid wastes into products such as pulverized fuel ash autoclaved environmental protection bricks, to achieve energy-saving and efficiency increase. One ton fuel ash can earn more than 100 RMB by extending the industrial chain.

According to the report of the Party's

20th National Congress, we will carry out coordinated industrial restructuring, pollution control, ecological conservation, and climate response, and we will promote concerted efforts to cut carbon emissions, reduce pollution, expand green development, and pursue economic growth. We will prioritize ecological protection, conserve resources and use them efficiently, and pursue green and low-carbon development. So Liaocheng Municipal Government will carry out the "Specialized; Refinement; Differential; Innovation" strategy to fully promote the high-end development of the industrial chain and value chain, and inject more new and sustainable momentum into the green transformation of the industry.

Readthefullreport: https://www.prnews-wire.com/news-releases/liaocheng-chi-na-speeds-up-in-green-and-low-car-bon-transformation-and-develop-ment-301685443.html

If you want your report abstract to be published please contact info@chemicalmarket.net





News Round Up

Vipul Organics Announces Q2 Results For FY 2022-2023

7 ipul Organics Limited, the BSE listed (VIPULORG / 530627) leading Specialty Chemicals company in the pigments and dyes segment, announced their Quarter 2 results for FY 2022-23.

Some of the key highlights are:

- Total Revenues in Q2 of 2022-23 stood at Rs. 3,684.22 Lakh, up 17.88% from Q2 of 2021-22
- Total Revenues in Half Year Ended 30th September 2022 stood at 7,477.60, up 16.88% from the Half year ended on 30th September 2021
- PAT stood at Rs. 42.10 Lakh on a standalone basis and Rs. 41.71 Lakh on a consolidated basis

Financials at a glance:

Quarterly results (YoY)

(Rupees in Lakhs except EPS)

	Q2, 2022-23		Q2, 2021-22	
	Standalone	Consolidated	Standalone	Consolidated
Total Revenue	3,684.22	3,684.22	3,125.44	3,125.44
EBDITA	53.02	52.62	225.85	225.30
PAT	42.10	41.71	167.49	166.97
EPS	0.32	0.32	1.48	1.47

Quarterly Results: (QoQ)

(Rupees in Lakhs except EPS)

	September 30, 2022		September 30, 2021	
	Standalone	Consolidated	Standalone	Consolidated
Total Revenue	3,684.22	3,684.22	3,793.38	3,793.38
EBDITA	53.02	52.62	153.15	152.85
PAT	42.10	41.71	106.08	105.78
EPS	0.32	0.32	0.87	0.87







THE NEW POLESTAR

3 ALL ELECTRIC SUV
IS TO USE INEOS
INOVYN BIOVYNTM
BIO-ATTRIBUTED
VINYL CAR SEATS TO
FURTHER REDUCE
CO2 FROM ITS LATEST
VEHICLES

- Premium electric car manufacturer Polestar revealed its brand new Polestar 3 model on 12 October in Copenhagen. First SUV from the fast-growing brand, Polestar 3 is set to hit the market in 2023.
- Polestar 3 will be the brand's first car equipped with seats made of BIO-VYN bio-attributed PVC, which will be the source material in the Micro-Tech upholstery.
- BIOVYN[™] has been a game-changer allowing a wide range of industries, including automotive, to reduce the carbon footprint by over 70% with a 100% renewable PVC formulation.

Independent Volvo spin-off and high-performance electric car manufacturer Polestar has introduced BIO-VYN™ in its brand new Polestar 3 SUV. The new model, described by Polestar CEO Thomas Ingenlath as "defining the heart of Polestar in terms of size, luxury, ambition and design," features innovations throughout the vehicle, including MicroTech seat upholstery which is made from BIOVYN™.

"We decided that we wouldn't choose the easy way of quoting old paradigms of traditional car design", said Maximillian Missoni, Head of Polestar Design, at the launch of the Polestar 3. "On this path, we asked ourselves how we could combine the benefits of vinyl upholsteries with a better process to achieve our sustainability target, and the solution is MicroTech."

MicroTech uses on BIO-VYN[™] to reduce the carbon footprint of the upholstery. BIOVYN[™] bio-attributed vinyl, it is made of 100% renewable feedstock that does not compete with the food chain. It replaces fossil based raw materials with renewable materials obtained from crude tall oil, a byproduct of coniferous tree pulping. It has the same properties as traditional PVC, but is the world's first bio-attributed PVC available for commercial use that enables a carbon footprint reduction of over 70%. It is also the first PVC product certified by the Roundtable on Sustainable Biomaterials.

"It's a great honour for our company to be associated with a brand as ambitious and forward-thinking as Polestar. This shows just how much the automotive industry is evolving and how INEOS Inovyn's continuous innovation and investments in more sustainable processes and products are paying off", says Geir Tuft, CEO of INEOS Inovyn. First released in 2019, BIOVYN™ has been turning heads in many industry sectors in need of new-generation PVC grades that meet rigorous performance and quality standards while moving society closer to a circular and carbon neutral economy. BIOVYNTM PVC can already be found in various automotive parts, building and construction, consumer goods, electrical and electronic components, leisure, clothing and healthcare.

Source: Ineos

DAVINCI MOTOR OFFICIALLY ENTERS THE EU MARKET WITH THE LAUNCH OF THE DC100 ELECTRIC MOTORCYCLES AT EICMA 2022

Davinci Motor, a fast-growing Chinese manufacturer of high-performance robotic electric motorcycles, has revealed plans to expand into the EU market with the launch of its new two-wheel DC100 vehicle. wheels at the press conference at EICMA, the world's leading motorcycle exhibition, held November 8-13 in Milan.

The company showcased its premium performance DC100, developed using state-of-the-art technology in collaboration with the prestigious Tsinghua University in Beijing, China ."We are extremely excited about the official launch in the EU market, which is strategically important for Davinci," said Rosanna Libia, Director of International Trade for Davinci Motor. and innovation in R&D."







Davinci Motor first launched the DC100 in July 2021 in the Chinese market before opening its first factory in Zibo, China, in August this year, with the DC100 already in trial production.

With the launch of the futuristic DC100. Davinci Motor aims to provide users in Europe with a safer and more enjoyable driving experience. The two-wheeled vehicle was conceived as a mobility solution that achieves a perfect balance between acceleration, speed and autonomv.

Using the Davinci app, new users can quickly learn about the motorcycle's innovative features. Riders can place their smartphone in the phone holder and, once in place, the phone serves as the user's interactive dashboard, becoming a navigation tool while providing information such as vehicle status, remaining range and location details, to name a

Davinci Motor has worked tirelessly to simplify the DC100's controls. The intelligent control system seamlessly integrates multiple components while providing instant, adaptive acceleration combined with intuitive, responsive controls. The smooth forward and reverse system and ascent and descent assistance help the rider to control the vehicle and provide a top speed of 5 km/h and 7 km/h thanks to the DC100 twowheeled robot's perception capability.

"The DC100 marks a new era for electric mobility," added Rosanna Libia . "Our R&D team has created a new design combined with new technology and a new driving experience for all users. We are excited to see what the future holds."

The company is taking pre-orders for the DC100, priced at €26,000. Deliveries for those who apply are staggered between the second and third quarters of next year. Going forward, Davinci Motor will also lay the groundwork for the opening of its first showroom and central hub in Europe.

Source: Automotive Technoogy

ATRACK LAUNCHES SEVERAL MODELS OF SATELLITE TRACKING **OF VEHICLES AND ASSETS WITH 4G LTE TECHNOLOGY**

Track Technology Inc., the re-Anowned brand of GPS trackers has recently launched four new products targeting fleet management and asset tracking, including AK500 Telematics Gateway, tracking AK7V wired type vehicle satellite tracking, AX300 OB-DII type vehicle satellite tracking, and AS500 long standby time waterproof asset tracking. Developing products based on customer's need, and also helps to reduce customer's operating cost and raise management efficiency.

Drastic increase in the needs of 4G products: meet the needs of Latin America

According to the global electronic market forecast report 2022, prepared by the eMarketer market research agency, Latin America is one of the markets with great growth potential, especially countries such as Mexico, Brazil and Argentina. Lawrence Chao, VP of ATrack, indicated that due to the 2G and 3G blackout

program in Latin America, ATrack has launched a series of 4G products focusing on different applications to meet the needs of the market.

Satellite Vehicle Tracking Increases Fleet Management Efficiency

ATrack has designed three new products especially for fleet management. AK500 equipped with 4G LTE and still supports 3G networks, while equipped with functions of WiFi hotspot, Bluetooth, CAN diagnosis, it also carries a detailed interface capable of connecting to various models of sensors. The economic model AK7V is able to process instant positioning, CAN diagnosis, connect to various sensors, also supports two-way audio communication functions so that the driver can efficiently support instant communication with the control center.

The AX300 OBD model carries the Plug-n-Play interface which is capable of reading the data from two CANs simultaneously, obtain the most detailed key data of the engine, such as the parameters of mileage, speed, fuel quantity and consumption, engine speed, engine, and idle time, which will favor the detection of potential problems such as anomalies in fuel consumption and engine temperature to perform maintenance and avoid wear caused by temporary failures.

This series of products can help customers to know the status of their vehicle, and manage driving behavior and watch out for prohibitive behaviors, such as speeding, sharp turning, sudden braking, idling, etc. AK500, AK7V and AX300 are suitable for various commercial trucks, trailers and other vehicles that require multiple applications. These products can help customers reduce fuel consumption, improve driving behaviour, increase fleet management efficiency and reduce overall operating costs.

Satellite tracking with long standby time, perfect for assets without power







supply

The AS500 incorporates a variety of innovative technologies, with internal battery power supply and ultra energy-saving design, it can operate independently for up to ten years. Through high level IP69K mechanical design and thermoregulatory technology AS500 can operate stably in long time in extreme cold or hot. AS500 has 4G LTE Cat. M1 and NB-IoT communication, with built-in Wi-Fi and Bluetooth Beacon technology that is capable of supporting tracking both outdoors and indoors.

On this occasion, ATrack has launched four 4G products that meet the needs of various vehicle tracking applications. Among them, AS500 and AX300 have just received the 2023 Taiwan Excellence Award. This series of products is already on sale. Visit ATrack 's official website , LinkedIn , Facebook , Twitter or YouTube for more information.

Source: Automotive Technology

VINFAST SIGNS A GLOBAL STRATEGIC ALLIANCE WITH INFORM TO IMPLEMENT A VEHICLE LOGISTICS SOFTWARE SOLUTIO

VinFast, Vietnam 's first global electric vehicle manufacturer, and INFORM, a leading provider of AI-based optimization software that enables business solutions, announced a global strategic alliance dedicated to electric vehicle logistics management for VinFast. This new alliance will help VinFast to closely monitor the delivery status of vehicles from the production stage to the delivery phase, which will streamline the process and enable fast and accurate

decision-making. Under this alliance, INFORM will provide advanced vehicle logistics management software solutions to VinFast, including Transport Management Software (TMS) and Yard Management System (YMS). for vehicles. These software solutions will offer end-to-end transparency along with streamlined processes from vehicle order to delivery to the customer, making the delivery process faster, more efficient and more sustainable. VinFast can monitor your electric vehicle logistics, optimizing processes from vehicle order and delivery to vehicle recovery.

Major ports in the United States, Canada, Europe and Vietnam will benefit from INFORM solutions through optimized yard management, workshop scheduling activities, workforce management and logistics service provider routing activities.

In the first phase of this alliance, IN-FORM software will be deployed in the United States, Canada and Vietnam, with Europe to follow closely, effectively supporting the transportation of Vin-Fast electric vehicles until they reach customers. All INFORM solutions are expected to be deployed across the entire VinFast ecosystem within 18-24 months.

Ms. Le Thi Thu Thuy, Vice President of Vingroup and President of VinFast, commented on the alliance: "VinFast is currently in the process of mass production and delivery to customers around the world. INFORM's experience is the key component of VinFast's logistics, offering end-to-end solutions from the moment vehicles are exported from Vietnam until they are delivered to customers. INFORM's technologies will help VinFast achieve faster, more efficient and sustainable vehicle deliveries".

According to Justin Newell , COO of INFORM Software Corporation : "INFORM is extremely pleased to announce our strategic alliance with Vin-

Fast as they are a new, premier electric vehicle manufacturer striving to forge a more sustainable future, which is aligns with INFORM's corporate and sustainability goals. INFORM's ability to deliver solutions across the entire automotive supply chain, from factory outlet to customer delivery, is a key element to our VinFast project."

In addition, INFORM software solutions can be easily integrated with other VinFast business management software such as SAP (Enterprise Resource Planning - ERP) and Salesforce CRM (Customer Relationship Management Program). These technologies will fully support VinFast's high standards for customer service, sustainability and supply chain resiliency.

INFORM develops software to optimize business processes using digital decision making based on artificial intelligence and operations research. While standard data management software only provides information, INFORM systems can analyze vast amounts of data in a matter of seconds, compute numerous decision variants, and suggest the best possible solution. Currently, INFORM has been working with more than 1,000 clients around the world, including manufacturing, trading, airports, ports, logistics, banking, telecommunications and insurance companies.

Source : Automotive Technoogy







HYUNDAI MOTOR AND LEGENDARY DESIGNER GIORGETTO GIUGIARO COLLABORATE TO REBUILD ORIGINAL 1974 PONY COUPE CONCEPT

Tyundai Motor Company today announced it will work with Italian design firm GFG Style, notably its father and son founders Giorgetto and Fabrizio Giugiaro, to rebuild the influential 1974 Pony Coupe Concept that young Giorgetto created for Hyundai's debut at the 1974 Turin Motor Show. The rebuilt concept will be shown in the springtime.

Hyundai Motor announced the plan during a Design Talk in Seoul, featuring Giorgetto and Fabrizio Giugiaro along with Luc Donckerwolke, Chief Creative Officer of Hyundai Motor Group, and SangYup Lee, Executive Vice President and Head of Hyundai Motor's Global Design Center.

"We are absolutely thrilled to welcome Giorgetto and **Fabrizio to Seoul for this** rare occasion and we look forward to collaborating with them and GFG Style on this extraordinary design project," said CCO Donckerwolke. "Not only does this project hold historical value, but it also represents a cross-cultural exchange that could pave the way for more collaborations down the road."

"The original Pony and Pony Coupe Concept were one of those rare creations that influenced the designs of not just one but multiple production and concept vehicles, including our award-winning IONIQ 5 and attention-grabbing N Vision 74," said EVP SangYup Lee. "Since the original concept car no longer exists, we've commissioned Giorgetto Giugiaro to rebuild it based on our design philosophy, 'Shaping the future with legacy."

In 1974, when Hyundai Motor was still in its early days of vehicle production, the company's executives contacted Giorgetto Giugiaro to propose work on designing Hyundai's first independent model and Korea's first mass-produced car. At the time, there was no vehicle design and styling capability in Korea, so Hyundai Motor commissioned Giugiaro to design, make blueprints and build five prototypes, one of which was a coupe. In the process of designing and prototyping, Hyundai decided to show the Pony and Pony Coupe at the Turin Motor Show to promote the brand's debut in the global market.

With its wedge-style nose, circular headlamps and origami-like geometric lines, the Pony Coupe was intended for North American and European markets, but the project came to a stop in 1981 just before mass production amid adverse global economic environment.

While the concept was an unfinished dream at the time, its bold spirit helped kickstart the Korean automotive industry by directly influencing Hyundai's first independent production models under its Pony nameplate, which ran from 1975 to 1990 and were sold around the world. The Pony Coupe Concept remains a key part of Hyundai's legacy and hallmark of its Founding Chairman Ju-Yung Chung's vision for the company.

With the Pony Coupe Concept and subsequent Pony lineup, the founder Chung paved the way for Korea's automotive industry with his positive mindset, bold

leadership, firm belief and indomitable diligence. His leadership helped Korea emerge from the hardship of war to become an economic powerhouse by the late 20th century.

The concept design also served as a huge source of inspiration for Giugiaro's work on the DeLorean DMC 12 that debuted in 1983 and was famously used in the 'Back to the Future' movies (1985-90).

The Pony and Pony Coupe Concept's impact can still be felt. In 2019, Hyundai Motor took inspiration from the original Pony for the '45' concept car, which directly influenced the IO-NIQ 5, which debuted two years later. Also in 2021, Hyundai reinterpreted the original Pony production car as a restomod electric vehicle concept. And, in 2022, Hyundai nodded to the coupe concept yet again with its crowd-pleasing N Vision 74 hydrogen-hybrid 'rolling lab' development vehicle.

Of his original design, Giugiaro said, "I designed the Hyundai Pony when I was still a young designer at the start of my career. I felt very proud that I was in charge of creating a vehicle for a company and country that was about to take on a fiercely competitive global market. Now, I'm deeply honored that Hyundai has asked me to rebuild it for posterity and as a celebration of the brand's heritage."

Source: Automotive World







BAFRIN® WOWS PARENTS WITH LAUNCH OF CHILDREN'S ACUTE MEDICATED NASAL SPRAYS – BECAUSE ONE SICK KID CAN THROW EVERYTHING OFF IN AN INSTANT

Children's Afrin°products provide ridiculously FAST nasal congestion relief, so busy parents can get their families back on track. The WOW is REAL!

WIRE)-- Afrin®, the #1 doctor and pharmacist recommended nasal spray brand1, announced today the launch of Children's Afrin®, the children's acute medicated nasal spray that works fast and lasts up to 12 hours. Available in retail stores nationwide, the line of children's medicated consumer products includes Afrin® Extra Moisturizing Stuffy Nose Spray and Afrin® No Drip Extra Moisturizing Stuffy Nose Spray.

Children's Afrin® provides targeted fast relief, for children who suffer from nasal congestion due to colds or allergies. The children's medicated product line offers nasal spray products for children two to six and six and up:

- Afrin® Extra Moisturizing Stuffy Nose Pump Mist, for ages two to six years old, is specially formulated for young children and unblocks a stuffy nose fast
- Afrin® No Drip Extra Moisturizing Stuffy Nose Pump Mist, for ages six

years old and up, targets nasal congestion in seconds without dripping down the nose or throat

"There's nothing worse than when you're almost out the door, and your child runs over with their stuffy and snotty nose complaining of being sick because you know your plans for the day have been thwarted. That's why we're excited to bring the power of Afrin's fast congestion relief to the whole family, so all ages can breathe more freely," said Catherine Vennat, VP/GM, Upper Respiratory, Bayer Consumer Health U.S. "Children suffering from colds or allergies now have access to nasal congestion relief that works fast and allows children to feel like themselves again, and their busy parents to get their families back on track while juggling multiple responsibilities."

The nasal sprays offer fast relief to children for up to 12 hours, providing comfort to children and their parents, all day or all night. Children's Afrin® Medicated Nasal Sprays are available at mass retail locations. For more information, please visit https://www.afrin.com/ or follow us on Instagram and Twitter.

Source: Bayer

ACHIEVE HIGHER EFFICACY OF RETINOL WITH CLARIANTS VITISPHERES® R8

- Advanced drop-in encapsulated Retinol allows safe use of high concentrations
- New data highlights ability to protect Retinol's stability, promote better bioavailability, and enhance its skin penetration – for higher efficacy
- Proven non-irritating formulation ingredient thanks to controlled release of Retinol

MUTTENZ, November 23, 2022 - Cosmetics brands can now help more consumers to get the most out of introducing the benefits of Retinol into their skincare routines. Available worldwide, Clariant's encapsulated Retinol VitiSpheres R8 makes it possible to protect the Retinol's proven anti-aging potency and use higher concentrations safely in creams and serums.



"While consumers across all generations are increasingly seeking out Retinol for its benefit in reducing the appearance of wrinkles, it does have two drawbacks which dramatically lower its potential use. It can cause irritations







when not properly dosed, and it is not stable in cosmetic formulations, meaning its properties can degrade prior to application. VitiSpheres R8 overcomes these challenges: it stabilizes the Retinol in formulations over time and enables a controlled, prolonged release into the epidermis skin layer where it will be most effective. Brands and formulators benefit from stable, well-protected Retinol which expands possibilities for higher efficacy products suited to a broad range of skin types," comments Thomas Lukowicz, Clariant Global Application Development Manager.

Clariant's unique multilayer encapsulated Retinol is an easy-to-formulate, drop-in solution for formulators to deliver high molecule charges without compromising skin.

In VitiSpheres R8, Retinol molecules are uniquely held within the solid-lipid core of a leak-proof multilayered capsule. The patented system protects the Retinol from oxidation, ensuring very good stability in formulations compared to benchmark systems. This maintains bioavailability of the Retinol, and reduces the potential loss of beneficial properties both during formulating as well as over a long shelf life.

Importantly, Retinol is only released on skin contact at skin temperature. The encapsulated ingredient melts on application and opens the pathway for Retinol to be released smoothly and gradually into the skin where it will be most effectively taken up, avoiding the potential of a sudden irritation-inducing Retinol overload even at high concentrations.

Its superior Retinol penetration compared to other systems and skin tolerance is confirmed by data – supporting both higher efficacy and the possibility to use higher concentrations in formulations.

Source: Chemical Market

XTALPI AND CK LIFE SCIENCES TO COLLABORATE IN AI-EMPOWERED TUMOUR VACCINE RESEARCH AND DEVELOPMENT, **OPENING A NEW PARADIGM** FOR SCIENTIFIC **INNOVATION**

TENZHEN & HONG KONG, China, Nov. 24, 2022 /PRNewswire/ -- XtalPi announced today that they are embarking on a strategic collaboration with CK Life Sciences, a member of the CK Hutchison Group. XtalPi and CK Life Sciences will leverage their respective expertise to jointly develop a novel AI tumour vaccine R&D platform to improve the discovery and design capabilities of tumour vaccines and accelerate the development of more vaccine types. The goal of this collaboration is to realize precision treatment for patients worldwide.

According to public information, there were nearly 20 million newly diagnosed cancer patients worldwide in 2021, of which about 4.5 million cases came from China. Many cancer types lead to detrimental outcomes, with high morbidity and mortality, and there remains a large unmet clinical need. Tumour vaccines targeting different tumour neoantigens, tumour-associated antigens (TAA) and tumour-specific antigens (TSA) in patients can be designed for use as immunotherapy, to activate the patient's own specific immune responses.

Currently, there are only two therapeutic tumour vaccines— sipuleucel-T for melanoma and Bacillus Calmette-Guérin (BCG) for bladder cancer, as well as preventive tumour vaccines against human papillomavirus infection and hepatitis B infection approved by the U.S. Food and Drug Administration (FDA). Recently, several other tumour vaccines have entered clinical development and evidence of efficacy has begun to emerge.

According to Mordor Intelligence, the global cancer vaccine market size was US\$6.79 billion in 2021 and will increase at a compound annual growth rate of 11.53% from 2022 to 2026. The expected market size by 2026 will be approximately US\$12 billion.

Currently, the design and preclinical development process for tumour vaccines is complex and lengthy, hindering the efficiency and success rate of tumour vaccine research and development.

Incorporating XtalPi's industry expertise in AI computation and robotic automation, this collaboration aims to build an AI tumour vaccine R&D platform that applies advanced AI algorithms and high-precision molecular modeling to predict and design a variety of tumour vaccines that can activate specific immune responses to kill tumours. The tumour vaccines will be screened and verified through automated experiments, and through integrating algorithmic feedback to optimise activity and efficacy, the platform is expected to generate preclinical tumour vaccine candidate compounds with robust immune activity.

Dr. Shuhao Wen, co-founder and chairman of XtalPi, comments: "As a company headquartered in the Het-







ao Shenzhen-Hong Kong Science and Technology Innovation Cooperation Zone, XtalPi is committed to realising the synergies between Shenzhen and Hong Kong by creating a new paradigm for innovation in the Greater Bay Area. Empowered by the latest technological advancements in automation, artificial intelligence is accelerating more innovative and diverse areas in drug research and development. Together with CK Life Sciences, we are committed to overcome conventional limitations and discover diverse applications for cutting-edge technologies. We believe the AI cancer vaccine platform jointly developed by CK Life Sciences and XtalPi will inspire the global scientific community to progress vaccine research and development and fast-track key development milestones for cancer vaccines. We are confident that this collaboration will significantly facilitate the scientific research exchange in the Greater Bay Area."

Dr. Melvin Toh, Vice President and Chief Scientific Officer of CK Life Sciences, comments: "The R&D of tumour vaccines is one of the kev development directions of CK Life Sciences. The cooperation with XtalPi will apply XtalPi's AI algorithm, molecular modeling and automated experiments to speed up the R&D process, improve the success rate, and increase the efficacy of tumour vaccines."

Source: PRNewswire

CHEMICAL TECHNOLOGY _

LUMMUS' NOVOLEN TECHNOLOGY LAUNCHES NEW PPURE POLYPROPYLENE GRADES

OUSTON, Nov. 17, 2022 / PRNews-Houston, Nov. 17, 2021

wire/ -- Lummus Technology, a global provider of process technologies and value-driven energy solutions, announced the launch of its Novolen® PPure[™] polypropylene (PP) portfolio, a new grade-range of polymers suitable for supporting production of high-quality products for automotive, healthcare components and food packaging materials. The new non-phthalate process technology provides significant energy savings by delivering an improved hydrogen response with the catalyst.

"Lummus continues to raise the bar with Novolen's new line of PPure polypropylene process technologies," said Romain Lemoine, Chief **Business Officer of Poly**mers and Petrochemicals,

Lummus Technology. "The PPure portfolio provides our end users access to new and more sustainable product grades, plus the innovative technology extends

the application of an existing plant and reduces CO2 emissions that is unmatched in the current

marketplace. We are proud to offer operators a choice in technology based on their need or end-product targets and help our licensees remain competitive in the marketplace."

The PPure technology portfolio includes several variants applicable for an operators' process and end-product requirements. Grades within PPure include high crystallinity homopolymers, ethylene random copolymers and advanced impact copolymers.

The high-crystallinity homopolymers are suitable for injection molding, thermoforming, raffia, cast film and compounding applications. The ethylene random copolymers include high-flow characteristics and ethylene content

> up to 5 percent, delivering excellent clarity and low extractables, making them a perfect choice for food packaging applications. The advanced impact copolymers con-

vey high flowability and have excellent impact-stiffness balance and no-break behavior, ideal for lightweight interior and under-the-hood automotive parts.

Lummus Novolen Technology GmbH licenses the industry leading Novolen® polypropylene technology and provides engineering, technical support and advisory services to the refining industry. The Novolen portfolio includes NPM™ advanced process controls system, PPConnect™ digital data analysis platform and Lummus O3S™ operator training simulator. The Novolen technology includes NEON® low volatile extrusion







equipment and components, Novolen ComPPact[®] process reactors, which can be used by implementing the proprietary VRC® reactor system, allowing for maximum product range and capacity flexibility. Novolen catalysts are available to licensees to produce high-performance and special polypropylene grades and include Novolen CirPPlus™ recycled polymers, Novolen Enhance™ performance polymers, PPure[™] polymers and Novocene® metallocene catalysts.

Source: PRNewswire

CLARIANT'S NISAT® 310 CATALYST ADDS POLISHING TOUCH TO EVONIK-TKIS **HPPO PROCESS AT** PROPYLENE OXIDE **PLANT IN CHINA**

- Qixiang Tengda's new 300 KTA propylene oxide plant in Shandong province uses the HPPO production process developed by Evonik and tkIS
- HPPO is a highly efficient technology that converts propylene in the presence of hydrogen peroxide (HP) directly to propylene oxide (PO)
- In a "polishing" step, Clariant's Ni-Sat 310 catalyst converts up to 95% or more of unreacted hydrogen peroxide to water, and aldehyde by-products into alcohols

UNICH, November 30, 2022 -MClariant Catalysts has teamed up with Evonik and thyssenkrupp Industrial Solutions (tkIS) in a major propylene oxide project for one of China's largest rubber producers. Qixiang Tengda is one of the leading global producers of carbon-four chemical products, such as methyl ethyl ketone and maleic anhydride. Expanding into the carbon-three value chain, the company's new propylene oxide plant in Zibo city, Shandong province, relies on Evonik-tkIS HPPO technology to convert propylene in the presence of hydrogen peroxide (HP) directly into propylene oxide (PO). The plant will have an annual production capacity of 300,000 tons.



In the "polishing" stage of the process, Clariant's NiSat 310 catalyst will remove by-products by converting up to 95% or more of the unreacted HP into water, and unwanted aldehydes into alcohols. These alcohols can be easily separated in subsequent production steps. Using the catalyst not only improves the purity of the propylene oxide produced, but also extends the lifetime of the custom-made, Evonik-supplied HPPO catalyst applied in the main oxidation step.

Jens Cuntze, President of Clariant Catalysts, commented, "The combination of Evonik-tkIS HPPO technology and Clariant NiSat catalyst is a more economical solution that enables the production of highly pure propylene oxide while minimizing waste. As propylene oxide is a widely used

chemical building block globally, the collaboration exemplifies a sustainability-driven solution for industry growth."

Qixiang Tengda, stated, "Our aim is to create a highly efficient propylene oxide production plant, and our responsibility is to do so using one of the most sustainable processes available. We believe these two goals are achievable with Evonik, tkIS, and Clariant's technologies and products."

Lauren Kjeldsen, Head of **Evonik's Smart Materials** division, said, "At Evonik, our aim is to drive sustainable solutions to future challenges. HPPO is an excellent example of an innovation that helps the industry to use less energy and fewer resources while generating only water as a co-product. This sustainable advancement is especially important in China, where emissions regulations are becoming ever stricter."

Evonik has licensed hydrogen peroxide technology to Qixiang Tengda for the exclusive supply of their propylene oxide plant. Compared to conventional production methods, the HPPO process requires a significantly lower investment, resulting in higher profitability for producers.

Source: Press Release







SOLVAY LAUNCHES NEW EMULSIFIER TO BOOST COATINGS AND ADHESIVES PERFORMANCE

Princeton, November 22, 2022 - Solvay launched today Reactsurf® 2490, a new APE-free[1] polymerizable surfactant designed as a primary emulsifier for acrylic, vinyl-acrylic and styrene-acrylic latex systems. Reactsurf® 2490 improves emulsion performance to deliver superior functional and aesthetic benefits in exterior coatings and pressure sensitive adhesives (PSAs), compared to conventional surfactants, even at high temperatures.

In addition to exterior coatings and pressure sensitive adhesives, other common uses of Reactsurf® 2490 include paint binders, adhesives & sealants, textile & nonwoven binders, paper coatings, and building & construction applications.

"Exterior coatings and pressure sensitive adhesives are both prone to surfactant leaching," explains Janice Ng, Coatings Asia Pacific Business Development Manager. "In exterior coatings exposed to harsh environmental conditions, leaching leads to dirt pickup and water marks, while it leads to water whitening in PSAs. Reactsurf® 2490 prevents surfactant migration, which improves

water-whitening resistance for PSAs and dirt pick-up resistance for exterior coatings. This means clear label products retain their original appearance, and exterior surfaces remain clean and dirt free."

Reactsurf® 2490 is highly reactive and easily incorporated during the emulsion polymerization reaction. It eliminates the need for secondary emulsifiers, thereby facilitating fast and simple design of new latexes. REACH-certified and water-soluble, Reactsurf® 2490 also ensures compliance with increasingly stringent regulatory requirements for APE-free solutions. Its optimal combination of properties includes low dynamic surface tension and critical micelle concentration, good particle size control, low grit and low foaming, in turn enabling better film hardness and antiblocking.

In tests of elastomeric coating binders, Reactsurf® 2490 delivered improved blocking resistance and superior dirt pick-up resistance after three months of outdoor exposure. Initial tests also demonstrated improved water-whitening resistance in PSA applications.

Reactsurf® 2490 is currently available in Asia, Europe and Latin America.

Source: Press Release

SABIC DEBUTS NEW
COPOLYMER RESIN
FOR PV CONNECTORS,
DELIVERING HIGHEST

CTI LEVEL TO SUPPORT EMERGING 1.5KV SYSTEMS

Bergen op zoom, the Netherlands, November 15, 2022 -SABIC, a global leader in the chemical industry, launched today a breakthrough polycarbonate (PC)-based copolymer resin, well-suited for photovoltaic (PV) connector bodies, that meets stricter performance and regulatory requirements for emerging 1.5Kv solar systems. The new LNP™ EXL9334P copolymer resin achieves the highest comparative tracking index (CTI) level (UL PLC0) and IEC as Material Group 1 (IEC MG 1). It also delivers low-temperature ductility, good dimension stability, excellent heat resistance, good durability and weather resistance and flame retardance. With high performance across all key properties, this specialty resin surpasses competitive materials such as glass-reinforced nylon, polyphenylene ether (PPE) and standard PC. Customers could also benefit from the cost-effective design flexibility and processing efficiency of this injection-molding thermoplastic.

"To help photovoltaic customers keep pace with industry trends, particularly the move from 1.0 to 1.5 kilovolt systems, SABIC is proactively developing novel, higher-performance materials," said Joshua Chiaw, Director, Business Management, LNP & NORYL, SABIC. "Our next-generation LNP EXL9334P resin grade, which meets stringent international standards for 1.5 kilovolt components, can facilitate adoption of this efficient, cost-effective technology. In addition to addressing changing industry requirements, this new material supports our sustainability strategy by helping to promote greater use of renewable solar energy."







Top Performance in All Key Areas

The emergence of 1.5 Kv PV systems is a major industry trend that offers efficiency improvements and potential system cost reduction. However, the transition

from 1.0 Ky to 1.5 Ky systems is also leading to more-stringent performance and safety standards for all components. The main requirement is high CTI performance (UL PLC0 and IEC MG 1) to withstand 1,500 sys-

tem volts without breaking down. Other properties are also critical, including ductility under exposure to very cold outdoor temperatures.

New LNP EXL9334P copolymer resin delivers high performance in all key properties needed for 1.5 Kv components, compared to competitive materials that fall short in certain respects like dimension and impact.

In addition to achieving a high CTI (UL PLC0 and IEC MG 1), the SABIC material provides low-temperature impact down to -40°C, good weatherability (UL 746C f1 listing) and good dimensional stability. This new product also meets the UL94 V0 standard for flame retardance at 1.2mm and delivers long-term heat resistance.

"Developing a flame-retardant copolymer that could achieve the highest CTI level was difficult, but our experts were up to the challenge," said Jenny Wang, Director, Formulation and Application, APAC, SABIC. "The SABIC team combined innovative thinking with technical expertise and successfully developed LNP EXL9334P resin, which meets the most demanding requirements across the

> board. Our efforts have been validated by customers during material trials. They are happy with its properties, par-

ticularly its signature impact resistance at extremely cold temperatures, which help solve their problems. We'll continue to work on new solutions to support the high growth and new technology of the solar photovoltaic industry."

New LNP EXL9334P copolymer resin is globally available.

Source: Press Release

TORAY OFFERING THREE NEW **PERFORMANCE CATEGORIES FOR REBRANDED DERMIZAXTM** WATERPROOF, **BREATHABLE FABRIC** FOR SPORTS, AND **OUTDOOR WEAR**

Tokyo, Japan, November 21, 2.

Toray Industries, Inc., announced

1:10 its Dermizax™ today that it is rebranding its Dermizax™ brand of waterproof breathable fabric for sports and outdoor wear. With some exceptions, Dermizax™ is a laminated waterproof, breathable fabric. Dermizax™ will become available in three varieties. Dermizax™ Protect will be highly waterproof. DermizaxTM Balanced will offer stretch, waterproofness, and breathability. Dermizax[™] Breathe will combine high breathability and waterproofness.

Toray is deploying new materials for the rebranded range. In-store sales should start from the fall/winter 2024 season. The sales target is 2.5 million meters for the fiscal year ending March 2023, rising to 4 million meters a year later.

Toray has long developed waterproof breathable fabrics, has created and rolled out waterproof breathable fabrics with varying features and specifications to match market needs. The sports and outdoor wear markets have boomed since the COVID-19 pandemic began, particularly for running and cycling. Demand has grown for better waterproofness, lightness, and breathability for the prime Dermizax[™] applications of winter sports, outdoor activities, and golf.

The Built for Purpose brand tagline for Dermizax™ expresses Toray's commitment to developing and delivering optimal fabrics for the right purpose to meet myriad functionality requirements. The rebranding aims to position Dermizax™ as the premier line for waterproof breathable fabrics, offering the most suitable versions in readily understood ways to offer the professional grade features that increasingly consumers demand today, including for new applications.

In keeping with the rebranding, Toray is broadening its product lineup by offering three fabric categories. The company is responding to rising interest worldwide in safeguarding the environment







by expanding sales of such eco-friendly offerings as ECODEARTM bio-derived polymer materials and products and &+TM polyester made from used plastic bottles and other recycled materials.

For waterproof and moisture permeable fabrics,
Toray is also using these materials to develop new products, bringing out new waterproof and breathable fabrics with a range of eco-designs for each cat-

egory. They include offerings that repel water but whose membranes do not use fluorine, yet durable. A mono-material type employing a highly moisture permeable polyester film, with everything from the shell to the membrane and lining made of polyester to make it easy to recycle. Another type uses nanofibers

to achieve air permeability, enhance performance and washing durability.

In keeping with its commitment to innovating ideas, technologies, and products that deliver new value, Toray has dedicated itself to providing incredibly comfortable, leading-edge eco-friendly fabrics for sports and outdoor wear that help all athletes and consumers pursue new challenges. It will keep contributing to social progress by pioneering technologies and advanced materials for better living.

Source: Toray

MERGERS AND ACQUISITIONS –

CIRCULAR ECONOMY
: AIR LIQUIDE AND
TOTALENERGIES
INNOVATE TO
PRODUCE RENEWABLE
AND LOW-CARBON
HYDROGEN AT THE
GRANDPUITS ZERO
CRUDE PLATFORM

A ir Liquide and TotalEnergies are innovating, in the context of the conversion to a biorefinery of the TotalEnergies' Grandpuits site, to produce and valorize renewable and low-carbon hydrogen. Under a long-term contract, committing TotalEnergies to purchase the hydrogen produced for the needs of its platform, Air Liquide will invest over 130 million euros in the construction and operation of a new unit producing hydrogen. This unit will partly use biogas from the biorefinery built by TotalEnergies, and will be delivered

with Air Liquide's carbon capture technology, CryocapTM. These innovations will prevent emissions amounting to 150,000 tonnes of CO2 a year compared to current processes. TotalEnergies' biorefinery will use the unit's hydrogen to produce sustainable aviation fuel.

In line with the two companies' shared ambition to reach carbon neutrality by 2050, this project is based on an innovative sustainable and circular approach:

- Air Liquide will build and operate at the Grandpuits site a new hydrogen production unit with an annual capacity of more than 20,000 tonnes. By recycling, in part, residual biogases from Grandpuits' biorefinery as a substitute for the natural gas traditionally used, the hydrogen produced by this unit will be partly renewable.
- In addition, this unit will include, from its start-up, an Air Liquide Cryocap™ H2 carbon capture unit. This will enable to capture, for reuse in agri-food and industrial applications, over 110,000 tonnes of CO2 per year contributing to reducing the site's carbon footprint.

 Most of the renewable and low-carbon hydrogen produced will be used by the biorefinery to produce sustainable aviation fuel. This hydrogen could also be used to support sustainable mobility in the Ile-de-France region.

Pascal Vinet, Senior Vice President and a member of Air Liquide's Executive Committee, supervising notably Europe Industries activities, said: "This innovative project is characterized by the combination of several solutions in order to produce renewable and low-carbon hydrogen, and contribute to the decarbonization of TotalEnergies' Grandpuits site. It also provides the opportunity to recycle CO2 as part of a circular economy approach while securing its supply for agri-food applications. This project illustrates Air Liquide's expertise in working with its customers on customized solutions to help them reduce their carbon footprint and actively participate in the fight against global warming. It provides yet another example of the key role that hydrogen will play to succeed in the energy transition".

"By recycling the biogas







produced by the biorefinery into renewable hydrogen, this innovative project makes full use of the conversion of the Grandpuits refinery into a zero crude platform harnessing the potential of biomass, especially in the production of sustainable aviation fuel," said Bernard Pinatel, President, Refining & Chemicals, **TotalEnergies.**"Combined with the production of low carbon hydrogen and the capture of CO2, this project contributes to TotalEnergies' ambition to decarbonize all of the hydrogen used by its European refineries by 2030."

Source: Air Liquide

JOINT VENTURE WILL
CREATE THE LARGEST
PVDF PRODUCTION
FACILITY FOR BATTERY
MATERIALS IN THE
REGION. THE TOTAL
INVESTMENT IS
ESTIMATED AROUND
850 MILLION USD,
PARTIALLY FUNDED
BY A GRANT TO
SOLVAY FROM THE

U.S. DEPARTMENT OF ENERGY FOR A TOTAL OF 178 MILLION USD

Solvay and Orbia announced their entry into a joint venture framework agreement to create a partnership for the production of suspension-grade polyvinylidene fluoride (PVDF), creating the largest capacity in North America.

With more than half of U.S. car sales projected to be electric by 2030, demand for lithium-ion batteries and PVDF, a thermoplastic fluoropolymer used as a lithium-ion binder and separator coating, is revving up. The Solvay-Orbia joint venture would fill a significant supply gap and will build upon favorable regulatory conditions promoting regional production and material security. Solvay, a global leader in PVDF, brings process technology and unparalleled global market know-how to this venture. With a vertically-integrated value chain and material holdings, Orbia's Fluorinated Solutions business Koura and Polymer Solutions business Vestolit will supply hydrofluoric acid, vinyl chloride monomer (VCM) and chlorine respectively. In combination, Solvay's Solef® PVDF innovations and Orbia's raw material assets and production expertise will enable delivery of PVDF that optimiz-

es energy storage efficiency by increasing battery energy-density, safety and power.

"We are delighted to partner with Orbia on

this exciting opportunity to expand our battery solutions into North America, with strong support by the U.S. Department of Energy," said Ilham Kadri, CEO of Solvay. "This significant milestone in our electrification strategy enhances our global leadership and contributes to the establishment of the battery supply chain infrastructure in the United

States. This decision follows our previously announced investment in Tavaux, France. These investments extend our ambition to grow global sales to the automotive market from €800 million in 2021 to over €3 billion by 2030."

"We are delighted to partner with Orbia on this exciting opportunity to expand our battery solutions into North America, with strong support by the U.S. Department of Energy," said Ilham Kadri, CEO of Solvay. "This significant milestone in our electrification strategy enhances our global leadership and contributes to the establishment of the battery supply chain infrastructure in the United States. This decision follows our previously announced investment in Tavaux, France. These investments extend our ambition to grow global sales to the automotive market from €800 million in 2021 to over €3 billion by 2030."

Said Sameer Bharadwaj, CEO of Orbia, "Our partnership with Solvay marks a key milestone for our business and our role in enabling the North American energy transition. Together with Solvay, Orbia's unique position integrated into both the fluorine and vinyl chains, helps us to bring a cost competitive battery supply chain to the U.S., just as we maintain our commitment to developing sustainable solutions that can advance life

globally. Along with our previously announced Department of Energy grant to produce LiPF6 electrolyte salts in North America, this invest-

ment will put us in a leadership position to provide a secure source for fluorinated lithium-ion battery additives as well as local jobs."

The total investment is estimated to be around \$850 million, and is expected to







be funded in part by a grant awarded by the U.S. Department of Energy of \$178 million to Solvay to build a facility in Augusta, Georgia. Solvay and Orbia intend to use two production sites, one for raw materials and the other for finished product, located in the southeastern United States.

Both plants are expected to be fully operational by 2026. Commencement of the joint venture is subject to finalizing and entering

into definitive agreements between the parties and satisfaction of customary conditions, including obtaining regulatory approvals.

Source: Solvay

INTERNATIONAL NEWS

SHELL AND GE ADDITIVE METAL 3D PRINT OXYGEN HYDROGEN MICROMIXER AT ENERGY TRANSITION CAMPUS AMSTERDAM

Cincinnati, OH, November 17, 2022

– During formnext 2022, the global additive manufacturing event, Shell International B.V. and GE Additive unveiled the results of a joint design and engineering project – an additively manufactured oxygen hydrogen micromixer. This complex, non-functional, demonstration part, was printed in nickel alloy 718 on a GE Additive Concept Laser M Line system, installed at Shell's 3D Printing CoE and Workshop, part of the company's Energy Transition Campus Amsterdam (ETCA) in the Netherlands.

Shell maintains a leading 3D printing facility at ETCA in proximity to its scientists and partner companies to leverage additive manufacturing to prototype, as well as print functional parts. Having its own printing capability grants Shell's R&D department the freedom and speed to create novel parts not available in the market, and solve new

technical challenges in support of the energy transition.

Joost Kroon, an additive technology subject matter expert at Shell explains, "We really wanted to put the M Line through its paces and test it to its limits. Working with the GE Additive team we agreed to apply additive technology to reimagine a large, complex part, incorporating channels that would be difficult to manufacture conventionally. Working on an oxygen hydrogen micromixer aligns

well with our companies' strategies to play a positive role in the energy transition."

Taking Inspiration from Geometry in Nature

Sonali Sonawane

Thakker, a lead design engineer at GE Additive's AddWorks team based in Munich was tasked with researching, designing and iterating the final design on display at formnext. Her brief was to design a part that was large, complex and incorporated channels for hydrogen and compressed oxygen. Sonawane Thakker was able to deploy the design freedoms that additive technology affords to rethink the structure and the shape of the part.

"Once we had settled on a part, our preliminary research showed that existing micromixers – also known as hydrogen-oxygen burners – are typically cylindrical, when conventionally manufactured, to accommodate the complex layout of tanks, pipes and nozzles. For additional complexity we chose a large conical design and also moved from a flat to a curved structure with an ISO grid to increase the overall strength, rather than a customary flat one."

Sonawane Thakker sought inspiration from geometries and symmetry in the natural world, in particular the Fibonnaci sequence replicated in flowers and petals.

"With over 330 individual nozzles to

incorporate in a circular pattern, I took inspiration from the ways pollen grains form in a flower head. The curved wall and the conical shape also reflects the shape of a petal," she added.

Build & post-processing:

Following feasibility reviews and iterations by Shell and GE Additive teams, the design and dimensions of the reimagined part were finalized and nickel alloy 718 was chosen as the material for the build.







Dimension of the part:

Height: ~296 mm Diameter: 484 mm

Other: X ~ 429 mm Y ~490 mm

The build preparation and printing of the part on the M Line was overseen by Lisa Kieft-Lenders, team lead and Dennis Boon, a technician at the Shell 3D Printing Center of Excellence and Workshop.

"We have been involved in the project from the outset and have therefore been particularly close to this build and invested in its success. Given this is one of, if not the largest and most complex parts built on an M Line so far, we've remained in close contact with the GE Additive team in Munich and were supported, on the ground here in Amsterdam, by their local field service engineers. After some adaptions at the start, the build ran smoothly over nine days," said Kieft-Leenders.

Post-processing was also completed at the Shell facility, and this was made easier through inclusion of powder removal holes, incorporated by Sonawane Thakker during the design phase. The part was completed in early November and sent to the GE Additive's booth at the formnext. Following the event, the micromixer will be returned and put on display at Shell's ECTA.

"We are confident in the M Line's ability to perform. Indeed, we grasp every op-

portunity to test it to its limits with both hands. I cannot underestimate the power of collaboration and problem-solving during this project. It has brought together some great additive minds and the end result is not only visually stunning, but it is also substantial in size, complex and equally strong," said Rob Dean, GE Additive's AddWorks leader in EMEA.

Source: Press Release

FRANCE: TOTALENERGIES INCREASES ITS PRODUCTION OF HIGH-PERFORMANCE RECYCLED POLYMERS FOR AUTOMOTIVE

Paris, November 25, 2022 – TotalEnergies announces the construction of a new production line of high-performance recycled polypropylene for automotive in its polymer plant in Carling, France.

Since 2016, the Carling – Saint-Avold petrochemical platform is producing value-added compounds primarily intended for the automotive industry. The startup of a new line dedicated to hybrid compounds will consolidate the platform's position of a leading polymers site in Europe.

With commissioning scheduled for 2024, the flexible line will produce 15,000 tons per year of polypropylene compounds containing up to 100% recycled plastic materials. Part of TotalEnergies' recently launched RE:clic portfolio, and more precisely the RE:use polymers range obtained through a mechanical recycling process, these low-carbon materials meet the highest quality standards and technical require-

ments for automotive.

Recycling both post-consumer wastes and end-of-life automotive parts, the line will contribute to address the challenge of the circular economy in Europe.

"After the doubling of capacity at Synova, a subsidiary of TotalEnergies and the French leader in the production of recycled polypropylene, this investment further strengthens the Company's leading position in high value-add-



TotalEnergies

ed recycled polymers. This new line will allow us to meet the growing demand from the automotive market for more efficient and sustainable polymers, in line with our ambition of producing 30% circular polymers by 2030," said Nathalie Brunelle, Senior Vice President, Polymers at TotalEnergies.

Source: Press Release







News Round Up

Continue from Pg 30

Half Year Ended

(Rupees in Lakhs except EPS)

	September 30, 2022		September 30, 2021	
	Standalone	Consolidated	Standalone	Consolidated
Total Revenue	7,477.60	7,477.60	6,397.54	6,397.54
EBDITA	206.17	204.47	431.82	430.95
PAT	148.19	147.49	324.17	323.30
EPS	1.14	1.14	2.85	2.85

Commenting on the results, Mr. Vipul Shah, Managing Director, Vipul Organics Limited, said: "The Global Macro Economic environment continues to be challenging and has been impacting our topline. We have been trying to deleverage ourselves by increasing focus on Indian business. To this effect we have been strengthening our team size across domains and this is also reflected in the increase in our employee costs. The input costs remain high for which we are in the process of backward integration. The beneficial results of these steps should start reflecting in the near future. We are confident that we are on the right track for growth"

Source: Chemical Market

Airnov Celebrates Five Years of Manufacturing in India and Announces Participation at CPHI India 2022

- Cuddalore facility continues to serve a growing demand in the Indian market and represents an important hub for future regional growth
- Airnov to exhibit a broad range of healthcare packaging solutions, including HAT-B[®], EQius[®], laser marked canisters and DRICARD[™] at CPHI India 2022

November 18, 2022 – Airnov Healthcare Packaging, a global leader in controlled atmosphere packaging, has surpassed five years of manufacturing at its production facility in India.

The plant, located in Cuddalore which

sits south of Chennai in the Indian state of Tamil Nadu, is operated by a workforce of around 40 dedicated employees and is ISO 9001 and ISO 15378.

Beginning production in 2017, the Indian site is an important local hub for Airnov serving what is a growing national and regional market. It will also prove critical in meeting future growth in demand for Airnov's healthcare packaging solutions.

Shrikar Trikannad, Head of sales India at Airnov, commented: "We continue to see great promise in the Indian market, which is proving very receptive to the pioneering products that we are able to bring to customers."

"As we look ahead to the next five years, India will continue to play a key role in our business planning."

The milestone arrives as Airnov exhibits at CPHI 2022 in India, a leading tradeshow connecting stakeholders in the pharmaceutical sector.

In particular, guests are invited to discover a range of products. These include:

HAT*-B: Airnov's latest innovative vial, is designed to limit carbon footprints with an optimized amount of plastic. They contain an adjustable desiccant





VIEWS AND STATEMENTS



"The Dr. Craft brand is founded on scientific knowledge and expertise, using nature as our inspiration, With a focus on green chemistry, our previous research looked at extracts from wine industry grape waste and citrus peels in a number of different products, but the more we studied avocados the more interesting and exciting it became."

- Professor Richard Blackburn, Co-Founder & Director of Keracol and the brand Dr. Craft

"The importance of food packaging and its role is ever-changing, from the mere protection of food items from the outside in nice packaging to concerns about food safety and product shelf life, Our plant-based Einar® 611 anti-fog has proven itself a perfect choice in this PE film application to minimize the risk of moisture accumulating in small reservoirs on the inner surface of the packaging film, where bacteria could grow and then drop down and spoil the food."



- Ulrik Aunskjaer, Global Business Director for Bio-Specialty Polymer Additives at Palsgaard.



"We will not only produce the fuel that will decarbonize transportation but do so in a way that is also decarbonizing the manufacturing process itself. It is the first time both advanced biofuels and green hydrogen will be produced together at this scale, and we are excited to be bringing this innovation to Panama."

- Randy Delbert Letang, CEO of SGP BioEnergy

"By recycling the biogas produced by the biorefinery into renewable hydrogen, this innovative project makes full use of the conversion of the Grandpuits refinery into a zero crude platform harnessing the potential of biomass, especially in the production of sustainable aviation fuel, Combined with the production of low carbon hydrogen and the capture of CO2, this project contributes to TotalEnergies' ambition to decarbonize all of the hydrogen used by its European refineries by 2030."



- Bernard Pinatel, President, Refining & Chemicals, TotalEnergies



"The global petrochemical landscape is rapidly evolving with demand growth anticipated to accelerate, driven in part by rising consumption from Asia's emerging economies. That is why S-Oil's Shaheen is well positioned to meet rising demand for the materials that will be required across the region's key industries. By further integrating refining a-nd chemical processes through the first commercialization of Aramco's thermal crude to chemicals technology, we aim to create a more efficient, competitive and sustainable platform for growth, while paving the way for further downstream expansion."

-Aramco President & CEO, Amin H. Nasser







VIEWS AND STATEMENTS



"We prepared an event where the customers could see and feel the production site, reduce their reluctance to chemically recycled raw materials, and give sufficient explanations to help customers manufacture eco-friendly products", and "LOTTE Chemical completed the renovation of the Ulsan Plant #2 with its own technology this year and completed the trial production of C-rPET. The plant conversion progress for the chemical recycling business is proceeding without any problem."

- The senior director of Aromatic Division, Lee Sang-Hyeon, who hosted the event

"We would like to thank the FDA for introducing the novel excipient Pilot Program. IP-EC-Americas, the IQ Pharma Consortium, and the USP all recognize the need for excipient innovation and the challenges for the adoption of novel excipients in drug development. The collaborative efforts among these groups have supported and advocated for this initiative. As the need for novel excipients has never been greater, we are optimistic that a successful pilot program will lead to a formal novel excipient review program in the near future."



- Nigel Langley, Global Technology Director at BASF and a Chair of IPEC-Americas



"The number of consumers interested in certified natural cosmetic products is increasing. With Euperlan NL Pearl, we enable producers of shampoos and body wash products to develop formulations with outstanding performances and attractive sensory properties."

- Nadine Le Bris, Market Development Hair/Body/Oral Care at BASF.

"Building on ULTEM resin's 40 years of achievements, SABIC has developed another innovative material solution that combines beautiful aesthetics with practical advantages, Our new grade, which is compatible with PVD, offers consumer electronics designers new opportunities to emulate metal. But we didn't stop there. This new grade delivers key performance properties requested by device makers, including UV and chemical resistance. New ULTEM DT1820EV resin is carrying on our proud tradition of customer-centric innovation. To help customers meet their net-zero goals, ULTEM DT1820EV resin will also be available in an ISCC+ certified renewable version."



- Meredith Ji, Sr. Scientist, ULTEM Resins and Additives, SABIC.



"After testing SABIC's LLDPE BX202 material in our Bi-Axial Film Stretching pilot line, we were positively surprised by the performance of it. Its excellent processability combined with good mechanical properties makes this material a great addition to our recommendable materials portfolio for our customers and strengthen our position in the BOPE market. By collaborating with SABIC for use of their overall high-performance TF-BOPE resin on our advanced film extrusion lines, we are actively promoting the broader implementation of more efficient and sustainable, circular 'mono-materialized' film solutions designed for recycling."

- Toshiyuki Ninomiya, Vice Plant Manager, Hiroshima Plant for JSW







quantity and incorporate versatile sorbent materials to fit stability requirements. The vial, suitable for the pharma-

ceutical, diagnostic and nutraceutical markets, is available in two sizes and is compatible with existing filling lines.

EQius*: Airnov's equilibrium relative humidity stabilizers are sorbent products that can main-

tain a specific required humidity level in pharmaceuticals. They are particularly

designed to protect dry powder inhalers, gelatine capsules, and gummies. The development of Airnov's EQius portfo-

lio will help customers' control relative humidity from 10% to 95%, and meet specific needs for the pharmaceutical and nutraceutical markets.

Laser marked canisters: These canisters use laser technology to create visi-

ble marks on the canister body without inks, varnishes, adhesives, and other extraneous materials for a more sustainable product with less risk of contamination. The portfolio will be complete this year with the release of 2g and 3g.

DRICARD™: The new line of blue Dricard boasts double thickness, which allows for twice the moisture adsorption capacity across the same sized product. It also enables 80% less ink to be used, providing an important sustainability benefit.

Source: Chemical Market

Ineos Bichlor™ Electrolysers Selected by Chemfab Alkalis Karaikal Limited CAKL for Major Chlor-Alkali Plant Investment in India

NEOS Electrochemical Solutions has today announced that it has been selected by Chemfab Alkalis Karaikal Limited (CAKL), a newly formed Wholly owned Subsidiary of Chemfab Alkalis Limited (CCAL), to supply chlor-alkali electrolysis technology for their prestigious new production facility in India.

CAKL will establish a new chlor-alkali plant in Karaikal, South India. The initial caustic soda capacity of 250 TPD will be installed at the 65 acres development and will be expandable to 1000 TPD in phases. The

first phase of the project will be commissioned in mid-2024.

INEOS Electrochemical Solutions, one of the world's leading chlor-alkali solution providers, will provide state of the art BICHLOR bipolar membrane electrolysers for the facility. BICHLOR electrolysers feature very low power consumption for significant energy savings, a class leading output of NaOH, the largest effective working area per

module and a robust, safe construction with superior strength and simple maintenance.

CCAL, a leading chemicals manufacturer in India, has a long track record of implementing innovative technologies successfully to stay at the forefront

of the industry. With considerable investment in novel processes and quality technology, CCAL operations have been at the cutting-edge since its inception in 1985.



Mr. V.M. Srinivasan, CEO of Chemfab Alkalis commented 'when selecting the electrolysis provider for our new facility, it was important to focus on energy efficiency, safety and a technology partner that really understands the electrolysis process'.

Mr Terry Healy, Business Manager for INEOS Electrochemical Solutions, commented: 'We are delighted that an enterprising and innovative company such as Chemfab Alkalis recognise our membrane electrolysis technology as world leading for its low energy consumption, production efficiency and inherently safe design. We look forward to delivering a successful project with CAKL, building on several other recent key contract wins and successful projects for INEOS Electrochemical Solutions that further expand our global installed base'.

Source: Chemical Market







Huntsman Textile Effects Wins Two Prestigious DMAI Awards in India

Tumbai, India, 14th November, 1 2022: Huntsman Textile Effects, a global leader in innovative and environmentally sustainable dyes, chemicals

and digital inks, has been recognized for its outstanding safety record and achievements as a dyestuffs exporter by the Dyestuffs Manufacturers' Association of India (DMAI).

As the premier body representing the textile dyeing industry

in India for more than 70 years, DMAI organizes the prestigious DMAI Awards annually to acknowledge and inspire excellence in the sector. Huntsman's Baroda manufacturing plant won awards for its excellent performance in the 2021-2022 year in terms of exports and safety and hazard control.

Mark Devaney, Vice President Manufacturing and Operations Excellence, Huntsman Textile Effects, said: "It means even more to Huntsman that this honour comes from an industry organization of the calibre of DMAI. We

are proud to help contribute to India's growth as an exporting nation in line with the Government's Make in India initiative. We are also very pleased to



to India, it is a culture and mindset that guides us to care for one another as well as the environment and the communities in which we operate."

Huntsman Textile Effects operates a state-of-the-art global dyes and chemicals manufacturing unit in Baroda, Gujarat. The facility is spread across 62 acres and offers direct and indirect employment to over 800 people. This is the sixth consecutive year that Huntsman India has been recognized in the DMAI conservation last year.

"We are very grateful to be recognized again this year. This outstanding achievement reflects the teamwork and culture of the Baroda plant, where we encourage everyone to actively participate to bring about continuous improvement in quality, safety and output. We make safe and environmentally sound processes our top priority as we continue to adopt and refine an integrated manufacturing system that enhances our sustainability, efficiency and product quality," Kavishwar Kalambe, Site Director, Baroda Plant, Huntsman Textile Effects, said.

Source: Chemical Market

Awards, winning accolades for water **University of Chicago Scientists Discover Way to**

Target Undruggable Molecules Involved In Cancer

Ccientists at UChicago have an-Onounced the development of an innovative method for creating synthetic molecules that can target previously "undruggable" proteins known to be active in cancer and other diseases~

National, November 22nd, 2022: A group of University of Chicago scientists announced the development of a novel method for creating synthetic molecules capable of targeting these previously "untargetable" transcription factors. The discovery, which was published on October 27 in Nature Biotechnology, has implications for drugs and treatments as well as tools for better understanding cancer biology. UChicago made a breakthrough while cancer researchers worldwide have been looking

for a way to target transcription factors for decades.

While known for a long time that tumors use these proteins to grow out of control, their unique configurations meant that they had earned the moniker "undruggable" for more than 30 years.







"Doctors have had a hit list of transcription factors for decades, but we have lacked a way to target them," said UChicago chemist Ravmond Moellering, the senior author on the study. "This work sets the stage for letting us go directly for any transcription factor. If you ask clinicians what

they want in order to treat cancer, it's a way to inhibit Myc. Using the traditional drugs on transcription factors is like trying to get a foothold on a 50-foot vertical cliff. Right away when we ran the gels, we could see that we had cracked the code for the right configuration."

The researchers wanted to be able to tailor the molecule to target a variety of transcription factors. They created a customizable skeleton; based on their findings, that skeleton could be 'reprogrammed' to target a different DNA sequence and thus affect a different disease-causing transcription factor. This is due in part to the fact that transcription factors are involved in everything from aging to diabetes to autoimmune disease.

Source: Chemical Market

The Mitsubishi Chemical Group Launches the **Composite Engineering Challenge to Support** Startups Scaling up Manufacturing with Lightweight **Composite Materials**

C tartups and scaleups have a chance Oto access a wide range of advanced lightweight materials and to receive manufacturing and scaling up support worth \$25,000

Growth Garage Business Incubator of

the Advanced Materials Division of the Mitsubishi Chemical Group is calling upon entrepreneurs, innovators and founders aiming to lightweight parts and applications with

carbon fiber-reinforced plastics (CFRP) to submit their big idea to the Composite Engineering Challenge. The winner will receive a support package valued at \$25,000 tailored to their current business and product development stage. This Challenge is open to everyone around the globe striving to lightweight with CFRP and scale up their production.

"To meet the challenges of tomorrow, we have to nurture the visionaries of today," says Tim Vorage, Senior Manager and

> Founder of **Business Incu**bator Growth Garage. "We foster open innovation and collabo-

ration with innovators and entrepreneurs to implement great ideas, uncover new growth opportunities and positively impact the well-being of people and the planet."

lenge is to unlock the full potential of modern composite materials and scale with advanced production technologies. For that purpose, winners will have access to technology resources and support in material selection, tool design, scalability and design for manufacturing. In addition, the winners will get access to industry experts, the Mitsubishi Chemical Group's corporate venture capital arm and the wider network to create global exposure. The Challenge will close on December 31, 2022. A jury team of experts and industry leaders will select the overall Challenge Winner. A special Innovation Award will be given to the most impactful, differentiated, and innovative idea. The winner of the Innovation Award will receive resource and scaling support valued at \$10,000. Finally, together with the Mitsubishi Chemical Group's partner Wevolver, a Community Winner (chosen by voting) will receive honorable recognition and a featured article on Growth Garage's and Wevolver's website.

The ambition of this engineering chal-

Source: Mitsubishi Chemical









SK on Signs MOU with Hyundai Motor Group to Supply EV Battery in North America

- Cooperating with Hyundai Motor Group to supply batteries to EV factories in the US after 2025
- Joining hands to secure initiative and expand North American EV market share through the MOU

SK On announced today that it signed a memorandum of understanding (MOU) with Hyundai Motor Group

HYUNDRI

to strengthen the North American electric vehicle (EV) battery supply chain.

The signing ceremony of the MOU took place at SK Group Headquarters in Jongno,

Seoul, Korea, on November 29 (KST) with participants including SK On Chief Administrative Officer Choi Young-chan, Hyundai Motor Company Executive Vice President and Head of Corporate Future Growth Planning Division & EV Division Kim Heung-soo, and other representatives from both companies.

Under the MOU, both parties will cooperate to provide SK On batteries to the Group's EV plants in the U.S. after 2025. Further details on the cooperation shall be revealed at a later stage.

Hyundai Motor Group is promoting a

plan to produce various EV models in the United States through Hyundai Motor Alabama Plant (HMMA), Kia Georgia Plant (KaGA), and Hyundai Motor Group New Plant (HMGMA). Meanwhile, SK On is currently operating its own EV battery factory in Georgia, the U.S.

The MOU is also expected to further strengthen the two companies' partner-

현대자동차그룹 - SK On

ship. SK On's batteries are already installed in the Hyundai IO-NIQ 5, ION-IQ 6, and Kia EV6.

In addition, the coopera-

tion between Hyundai Motor and SK On is anticipated to have a great effect in responding to the US Inflation Reduction Act (IRA).

This means a series of IRA restrictions that lead to production/processing of key minerals for electric vehicle batteries and assembly of electric vehicles can be met through cooperation between the two companies.

To secure lithium, a key material for making EV battery cells, SK On recently signed purchase contracts with resource development companies in countries that have signed FTAs with the U.S. including Australia and Chile, taking quick steps to meet IRA requirements.

SK On Chief Administrative Officer Choi said, "We expect the cooperation between SK On and Hyundai Motor Group to create a big synergy." "With the latest MOU, both sides can hold a solid position in the process of electrification in the North American auto market," he continued.

"Through the EV battery
MOU, we will be able to
further accelerate U.S.
market EV growth," said
Hyundai Motor Executive
Vice President Kim. "We
expect the stable supply of
EV batteries from SK On
will enable us to focus on
securing EV leadership in
the U.S. market."

"Through the EV battery MOU, we will be able to further accelerate U.S. market EV growth," said Hyundai Motor Executive Vice President Kim. "We expect the stable supply of EV batteries from SK On will enable us to focus on securing EV leadership in the U.S. market."

Source: SK Innovation

Milliken's New Viscosity Modifier Concentrates Offer Added Value for Recycled Polypropylene

Ghent, Belgium – Milliken & Company, a diversified global manufacturer with more than 70 locations

worldwide, used this fall's K 2022 trade fair to introduce our latest DeltaFlow Viscosity Modifier for recycled polypropylene (rPP), based on latest viscosity-modification chemistry.







At the K Show in Düsseldorf from October 19-26, we showed our broad portfolio of plastic additives and colorants, but these new grades of DeltaFlow deserve special attention. All our viscosity modifiers are solid concentrates designed to

specifically help polypropylene (PP) recyclers by increasing the melt flow rate of rPP for injection molding processes. This serves to reduce energy use, enhance circularity and advance our goal of creating a healthier future.

Our newly developed DeltaFlow grades use the latest viscosity-modification chemistry. The technology also has lower volatile organic compounds (VOCs) and improved organoleptics and could nicely complement the advances being made in recycling machinery, according to Allan Randall, Global Product Line Manager. As communicated earlier this year, as an additional sign of our commitment to the recycling industry, Milliken is further expanding production capacity in our German manufacturing plant by 60 percent.

Recycled polypropylene - encompassing recyclers, compounders, convert-



mized resins allow for lower processing temperatures, which can enable converters to significantly reduce processing temperatures, reduce energy use, boost productivity and improve processability.

Brand owners stand to benefit, as well. DeltaFlow enables rPP to feasibly replace virgin resin in many end-use applications. This allows brands to use more rPP in their products, thereby helping them to meet their sustainability goals.

"Demand in the market for recycled content is only increasing," noted Randall. "These products enhance the properties of rPP and make it more suitable for more applications, thereby helping to close the loop in more end uses. Our goal is to enable more and better utilization of rPP. This product line helps to deliver on that promise."

Milliken is the only company offering this latest viscosity-modification chemistry in an easy-to-handle, non-dusting, solid concentrate form for the recycling market. "Our initial focus will be on Europe, but we intend to offer these DeltaFlow options globally," Randall added.

Visit our website at k2022.milliken.com to learn more about how Milliken can help you advance your sustainability goals and create a healthier future.

Source: Press Release

Sustainable Water Treatment Through Renewable **Raw Materials**

- New weak acid cation and weak base anion exchange resins from the LANXESS Lewatit product range
- WAC resins with 90 percent renewable raw material
- Use for sustainable domestic and commercial water treatment
- Portfolio additions carry LANXESS' sustainability umbrella brand Scopeblue

In addition to its conventional ion exchange resin portfolio made from fossil-based raw materials, specialty chemicals company LANXESS is now also offering products based on renewable raw materials following the mass balance approach. The new product family initially encompasses three weak acid and two weak base ion exchange resins.

LANXESS aims to make its entire supply chain climate-neutral by 2050. The switch to sustainable raw materials plays a central role in this. "With our new ion exchange resins based on sustainable raw materials, we are taking another step on this path. In addition, we are helping our customers to achieve their own climate targets," says Bettina Blottko, head of the Liquid Purification Technologies business unit at LANXESS.

WAC resins carry Scopeblue sustainability umbrella brand

The three new weak acid cation (WAC) have a carbon footprint that is up to 67 percent smaller than conventional types and consist of more than 90 percent renewable raw materials. In accordance with the mass balance approach they are chemically identical to conventional products and are produced in the same plants using the same processes.

The new types now included in the Lewatit product portfolio are marketed under the LANXESS Scopeblue sustainability umbrella brand. It was created for products that either exhibit a renewable raw material content of more than 50 percent or offer a carbon footprint of less than half that of their conventional counterparts made from conventional raw materials. The new Scopeblue variants of the well-known products Lewatit S 8227, Lewatit S 8229 and Lewatit CNP P, which are used primarily for the partial softening of drinking water, actually







meet both criteria, as more than half of the dry mass of each of these acrylic resins originates from acrylonitrile, which can be obtained from tall oil through mass balancing. This by-product of pulp production is then converted to propylene and reacted with ammonia, which is formed through the reduction of atmospheric nitrogen with "green" hydrogen.

LANXESS has also recently started producing styrene-based weak base anion (WBA) exchange resins - Lewatit MP 62 WS and Lewatit S 4528 - based on sustainably produced styrene. These are used primarily in the treatment of wastewater and chemical process flows as well as in the food industry. Due to the more complex synthesis pathways, the percentage of conventional raw materials in the end product cannot be reduced to the same extent for these resins as it can for WAC resins. "Since every percentage increase in sustainability achieved and every ton of CO2 emissions saved are improvements, LANXESS is demonstrating that these resins, too, which bear 'Eco' in their name, were produced using sustainable, bio-based or recycled raw materials," says Dr. Stefan Neufeind, head of Technical Marketing at the Liquid Purification Technologies business unit at LANXESS.

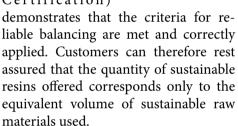
Mass balancing - transparent and certified

Renewable or waste-based raw materials are allocated to the corresponding quantities of sustainable products using the mass balancing method. To

manufacture mass-balanced products, raw materials or precursors that are demonstrably sustainable in origin are deployed and allocated to selected products using a special accounting method. This allows renewable raw materials to be integrated in existing production and supply chains.

The production plant for the sustainably produced resins in Leverkusen and the

mass-balanced products are independently certified beforehand. In the case of the ion exchange rescertification according to ISCC PLUS (International Sustainability & Carbon Certification)



Sustainable water treatment both in the home and commercially

An important area of application for WAC resins is cartridges for water filters, which are used mainly for creating partially softened water in the preparation of, for example, hot drinks such as coffee and tea. Filter systems like these are used both in the home and commercially.

The ion exchange resin accounts for by far the biggest proportion of the mass of these cartridges. The high level of sustainability of the Scopeblue resins therefore has a major impact on the sustainability performance of consumer-oriented end products such as the aforementioned cartridges. "The new exchange resins help our customers

to achieve their own sustainability targets. In addition, this enhanced sustainability can be leveraged as competitive advantage or advertised as added value," says Neufeind.

LANXESS is planning to have further resins certified to ISCC PLUS and included in the Scopeblue/Eco product portfolio.

You can find more detailed information about products from Liquid Purification Technologies on the website at https:// lanxess.com/en/Products-and-Brands/ Brands/Lewatit.

You can also find more detailed information specially on the sustainable ion exchange resins in the brochure entitled "Sustainably produced ion exchangers – small, climate-friendly resin beads".

Source: Lanxess

Sabic's New LNP™ Konduit™ Compound Delivers **Exceptional Thermal Conductivity & Flow in Complex DDR Memory IC Test Sockets**

CABIC, a global leader in the chemi-Ocal industry, today introduced LNP™ KONDUIT™ 8TF36E compound, a new specialty material that helps address the stringent demands of burn-in test sockets (BiTS) used to stress-test double-data-rate (DDR) memory integrated circuits (ICs). As the number of pins and the testing temperature for DDR ICs increase and their dimensions shrink, materials used in BiTS components must deliver enhanced properties. SABIC's





Price as on November 30, 2022

Name of Chemicals	Pack (Kgs.)	Price	Change (Rs./Kg)	
INORGANIC CHEMICALS				
Ammonium Bicarbonate		60		
Ammonium Carbonate		55		
Ammonium Nitrate		65		
Borax (Granular)	50	48		
Borax (Powder)	50	42		
Bromine Liquid	50	265		
Calcium Carbonate(Activated)	50	50		
Calcium Carbonate (Precipitated)	50	30		
Carbon Disulphide	300	84	-1	
Caustic Potash		78		
Caustic Soda (Flakes)	50	32		
Caustic Soda (Lye)	Tanker	22		
Hydro (China)	50	87		
Hydrogen Peroxide	50	41		
Hyflosupercel	22	66		
Lithopone (China)	25	185		
Magnesium Carbonate (Indian)	50	56		
Mercury	34.50	8700		
Nitric Acid RCF (60%)	Tanker	50		
Phosphoric Acid	50	67		
Potassium Carbonate	50	54		
Potassium Carbonate (Indian)	50	66		
Potassium Permanganate	50	160		
Soda Ash	50	30		
Soda Ash Tata		33		
Sodium Nitrite		44		
Sodium Nitrate		32		
Titanium Dioxide Anatase (TTPL)	25	190		
Titanium Dioxide Anatase (China)	25	160		
Titanium Dioxide (Rutile – R-902)	25	248		
Zinc Oxide (China)	50	93		

Name of Chemicals	Pack (Kgs)	Price	Change (Rs./Kg)	
ORGANIC CHEMICALS				
Acetic Acid Glacial	35	107		
Acetone (GI Drums)	160	121		
Acrylamide (Liquid)	250	230		
Acrylic Acid	200	119		
Acrylonitrile		210		
Adipic Acid	25	92		
Aniline	200	84		
Benzene (Per Litre)	200	55		
Benzoic Acid	200	86		
Benzoyl Chloride	200	125		
Benzyl Alcohol (FFC)	200	145		
Benzyl Chloride	200	165		
Bisphenol-A (Russian)	25	118		
n-Butanol (Barrels)	170	160		
Butyl Acetate		190		
Butyl Acrylate	180	75		
Butyl Carbitol	190	87		
Butyl Cellosolve		170		
Butyl Stearate	190	105		
C9 Solvent		59		
C10 Solvent		63		
Cellosolve	195	105		
Chloroform		22		
Citric Acid		47		
m-Cresol	190	270		
o-Cresol	200	300		
p-Cresol	200	325		
Mixed-Cresol		85		
Cyclohexane		76		
Cyclohexanone	190	121		
Diacetone		99		
Dibutyl Maleate (DBM)		203	-2	
Dibutyl Phthalate (DBP)		176	-6	
Dicyandiamide (DCDA)	25	300		
Diethanolamine (DEA)		110		
Diethylene Glycol (DEG)	230	72.50		
Diethyl Phthalate (DEP)	200	95		







Name of Chemicals	Pack (Kgs)	Price	Change (Rs./Kg)
Diisobutyl phthalate (DIBP)		134	-9
Dimethyl formamide (DMF)		210	
Dioctyl Adipate (DOA)	200	193	-2
Dioctyl Maleate (DOM)		200	
Dioctyl Phthalate (DOP)	200	164	-4
2-EHA(2 Ethyl Hexyl Acrylate)	180	138	
Ethyl Acetate (Resale)	185	111	
Ethyl Acrylate (Intact)	180	121	
Ethylene Dichloride (EDC)	200	57	
Ethylene Glycol (MEG)	230	68.50	
Formaldehyde (Resale)	230	11	
Formic Acid	25	92	
Glycerine (IP)	250	53	
Glyoxal (Imp.)		101	
Glyoxal (Indian)		105	
Hexamine	50	78	
n-Hexane (Per Litre)	200	64	
Hexylene glycol		145	
Isobutyl Alcohol	170	125	
Isopropyl Alcohol (IPA)	170	124	-5
Maleic Anhydride (MAN)	25	86	
Melamine	25	103	
Methanol (Per Litre) (Resale)	200 Lit.	32.50	
Methyl Ethyl Ketone (MEK)	190	110	
Methyl Isobutyl Ketone (MIBK)		150	
Methylene Dichloride (MDC)	350	51	
Monoethanolamine (MEA)	180	100	
Octanol (2-Ethylhexanol)	170	165	
Octoic Acid		100	
Oxalic Acid (Punjab)	50	114	
Phenol (GI Drums)	215	115	
Phthalic Anhydride (PAN)	25	77	
PolyethyleneGlycol(PEG 200)	230	93	
PolyethyleneGlycol(PEG 400)	230	94	

Name of Chemicals	Pack (Kgs)	Price	Change (Rs./Kg)
Polyvinyl Alc hol (Gohsenol GH-17)	20	190	
Propyl Acetate		109	
Propylene Glycol (Imp.)	210	325	
Purified Terephthalic Acid (PTA)		70	
Sodium Alginate (China)	25	280	
Sorbitol	250	52	
Styrene Monomer (Resale)	185	117	
Tartaric Acid	50	350	
Thiourea	50	110	
Toluene (Per Litre)	200	65	
Trichloroethylene	330	50	
Triethanolamine (Resale)	210	92	
Triethylene Glycol (TEG)		107	
Vinyl Acetate Monomer (VAM)	185	200	
Wax Industrial	25	105	
Wax Paraffin	24	98	
m-Xylene		57	
o-Xylene (Per Litre)	200	64	
Xylene Mixed (Per Litre)	200	61	



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new compound provides very high flow to help enable complex, miniaturized BiTS designs; excellent dimensional stability and high temperature resistance to enhance BiTS functionality during testing; and high thermal conductivity to rapidly dissipate heat afterwards.

Compared to incumbent materials such as thermally conductive filled nylon, LNP KONDUIT 8TF36E compound delivers higher flow and better dimensional stability. Customers could benefit from using this new material, which can potentially address the full range of their requirements.

"Demand for DDR memory ICs is growing steadily, thanks to expanded use in applications beyond mobile devices and PCs, such as automotive and cloud computing systems that rely on high data rates," said Joshua Chiaw, Director, Business Management, LNP & NORYL, SABIC. "To evaluate upcoming generations of DDR ICs, burn-in test sockets require new material solutions with improved properties—and SABIC is addressing this unmet need. Our ongoing investment in high-performance materials demonstrates our strong commitment to the semiconductor industry."

PUTTING PERFORMANCE TO THE TEST

Double-data-rate memory ICs, which fetch data twice per processor clock cycle, accelerate data transfer to meet the high throughput demands of gaming, artificial intelligence and other data-in-

tensive applications. This technology is putting greater pressure on test socket manufacturers, whose products must accommodate higher voltages, higher-temperature environments, ever-smaller form factors and an increased number of pins. For these reasons, BiTS designs for DDR ICs require high

for DDR ICs require high precision, high durability and workability.

LNP KONDUIT 8TF36E compound features high flow to help enable miniaturized and complicated designs with many pin points. During the testing process, it can easily withstand typical testing temperatures of 150°C while maintaining good dimensional stability to help improve the accuracy of measurements. This high heat capability can potentially permit BiTS to be re-used repeatedly without degrading. Further, LNP KONDUIT 8TF36E compound can handle extreme temperatures up to 260°C, building in capability to address higher-heat BiTS requirements in the future. Finally, to quickly dissipate heat after testing, the new product provides high thermal conductivity of up to 4.5W/m.k.

The new SABIC compound is well suited for fixed, structural parts, including latches and adaptors, in BiTS assemblies.

"Advancements in memory chips are placing new



demands on burn-in test sockets," said Jenny Wang, Director, Formulation and Applica-

tion, APAC, SABIC. "As the power of DDR ICs increases, temperature control is critical to verify that all devices in a BiTS system are uniformly stressed during reliability testing. Our new LNP KONDUIT material achieves what incumbent materials cannot. Not only does it provide high thermal conductivity, but it also delivers other key properties that contribute to successful testing."

New LNP KONDUIT 8TF36E compound is globally available.

Source: Sabic

LyondellBasell and Audi Create First Automotive Plastic Parts from Mixed Automotive Plastic Waste

Rotterdam – November 28, 2022 – LyondellBasell (NYSE: LYB) and Audi today announce a first time collaboration to help close the loop for mixed automotive plastic waste. Audi is installing plastic seatbelt buckle covers in the Q8 e-tron made using Lyondell-Basell plastic that supports the sourcing of feedstocks from mixed automotive

plastic waste. Plastic components from customer vehicles that can no longer be repaired are dismantled, shredded, and processed by chemical recycling into pyrolysis oil. The pyrolysis oil is then used as a raw material in LyondellBasell's manufacturing process for the production of new plastics, replacing virgin fossil feedstocks. The recycled content is at-

tributed to the Audi product via a mass balance approach [1].

"As part of the PlasticLoop project, we are working with Audi to establish an innovative closed-loop







process, recycling plastic
automotive parts for use
in new vehicles," said Erik
Licht, LyondellBasell Advanced Polymer Solutions
New Business Development
Director." For the first
time, we are using chemical
recycling to recycle mixed
automotive plastic waste
into plastic granulate for
automotive interior applications. The plastic gran-

ulate is then used in the production of the seatbelt buckle covers for the Audi Q8 e-tron."

With this process, LyondellBasell, Audi, and chemical recycler SynCycle (Next Generation Group and BDI), succeed in recycling a stream of material which today is mostly only suitable for energy recovery. This reduces the usage of fossil-based primary materials for the Audi Q8 e-tron and keeps valuable feedstocks in a circular loop. Materials produced from pyrolysis oil are of the same high quality as virgin materials and have the same properties. Chemical recycling

offers an alternative to energy recovery and complements mechanical recycling. "Audi's vision is to use secondary materials wherever it is technically possible, economically viable and ecologically beneficial." says Philipp Eder, Project Manager for Circular Economy in the Supply Chain at Audi. "The PlasticLoop project is part of Audi's circular economy strategy and a good example of cross-sector cooperation within the Audi supply chain. Findings from the project are also incorporated into the product development of future vehicle projects via the "Design for Recycling" approach."

Source: LyondellBasell

Brighten Your World with Zeitgeist Heubach's 2023 Decorative Color Trends

Vienna/Austria; Frankfurt am Main/Germany, December 7, 2022 - Zeitgeist invokes the mood of the age and perhaps no feeling more closely reflects this spirit of the time than that we must salvage our planet. With sustainability as a guiding principle, Heubach's 2023 Decorative Color Trends set a new direction in color and application techniques for decorative coatings.

The shades that feature in Zeitgeist 2023 Decorative Color Trends reach out to the future, diving into the unknown, exploring new galaxies and the depths of the seas. Based on the topics "Impetus", "Free Rein", "Y-Files" and "Deep Space" Heubach has developed four color palettes from traditional, natural driven soft tones to intense and bright shades.

The four color palettes consist of 21 color trends including The Color of the Year (COTY) 2023 – GOOD JINN, a dark and intense blue hue which is great for drawing the focus of a room to some special feature – a large window or a nice painting or piece of furniture.

"To each color trend we offer matching color tones and the basis for each is a guiding formulation available in our Formula Guide.

This allows customers to match any color they aim for in modern architectural paints," said Franziska

Trapp, Segment Head Decorative and Wood Coatings,

Global Technical Marketing

Coatings at Heubach.

At the same time, our digital world offers another kind of creativity, one that lets us explore a whole metaverse of opportunities and colors in each of the palettes. Why not lead a second life in the Y-FILES, where "Y not" is the reigning motto? Especially now that the pandemic has turned us into blank slates and given us FREE REIN over how to con-

tinue. Who knows, we might even be inspired to become real-world explorers – fathoming the undiscovered depths of DEEP SPACE and bottomless oceans.

All ZEITGEIST shades are formulated with Colanyl* 500 waterborne pigment preparations. The resin-free and low VOC range combines the advantages of broad compatibility in waterborne architectural coatings and suitability for Point-of-Sale and In-Plant tinting.

It also offers a well-balanced mixture of high and medium pigment content for economical coloring, optimized preservation and minimized settling behavior for a long shelf life of up to two years, no impact on film hardness or abrasion resistance and has good hiding power even in light color areas. Colanyl 500 is low VOC and manufactured without using alkyl phenol ethoxylated additives (APEO).

Source: Chemical Market







Oklahoma City Roofing Company McCann's Roofing & Construction Launches New Website

OKLAHOMA CITY, OKLAHOMA, UNITED STATES, December 13, 2022 /EINPresswire.com/ -- McCann's Roofing & Construction has just launched their new website! McCann's is Oklahoma City's premier roofing company specializing in residential and commercial roofing services. With their new website, you can easily access their wide range of roofing services, get a free roofing estimate, and experience the best of Oklahoma City roofing.

At McCann's, they understand that roofing can be a difficult and overwhelming process. That's why they strive to provide their clients with the best roofing experience possible. Their team of experienced and certified roofers are highly skilled and knowledgeable, and they use only the highest quality materials and techniques. With McCann's, you can rest assured that your roof will be installed correctly and safely and that it will last for years to come.

Jennifer M, a homeowner from Edmond, OK, and a recent customer, had this to say about the Oklahoma City roofing company; "We highly recommend McCann's as they have nothing but the highest quality work. We had

all of the sidings of our home replaced as well as the gutters and roof. The before and after are astonishing in comparison. Their team is professional and timely."

The launch of McCann's new website marks an exciting milestone for the company. The website was designed with the customer in mind and features an easy-to-navigate interface. Whether you're a first-time vis-

itor or a returning customer, you'll be able to quickly find what you're looking for. You can browse through the comprehensive list of services, get a free estimate, read customer reviews, and even learn more about the company's mission and values.

McCann's offers a wide range of roofing services, including roof installation, roof repair, re-roofing, and maintenance. Their experienced team of roofers can handle everything from minor repairs to major projects, and they have the skills and knowledge to handle any type of roofing job. Whether you need a new roof or just some minor repairs, McCann's can help.

What sets McCann's apart from other Oklahoma City roofing companies is their commitment to quality and professionalism. They use only the highest quality materials and techniques, and their team of experienced roofers are highly skilled and knowledgeable. They also offer flexible service options, so you can choose the services that best fit your needs.

When you choose McCann's for your roofing needs, you can expect a hassle-free experience and top-notch customer service. Their team of experienced roofers are dedicated to providing

McCann's ROOFING & CONSTRUCTION

their clients with the best roofing experience possible. They will work with you to ensure that your roof is installed correctly and safely, and that it will last for

years to come.

Here are the top reasons to choose Mc-Cann's for your Oklahoma City roofing needs:

- Experienced and knowledgeable team of roofers
- Use only the highest quality materials and techniques
- Flexible service options
- Hassle-free experience
- Dedicated to providing their clients with the best roofing experience possible
- Get a free estimate on their website

At McCann's Roofing & Construction, their goal is to provide their clients with the best roofing experience possible. With their new website, you can easily access their wide range of roofing services, get a free estimate, and experience the best of Oklahoma City roofing. So, what are you waiting for? Get a free estimate from McCann's today and experience the best of Oklahoma City roofing.

We highly recommend Mc-Cann's as they have nothing but the highest quality work. We had all of the sidings of our home replaced as well as the gutters and roof."— Jennifer M, a homeowner from Edmond, OK

Source: EIN Presswire









CphI - Informa Group				
No	Exibitions	Date	Place	
1	CPhI North America	Apr 25-27, 2023	PHL	
2	CPhI Worldwide Germany	Oct 24-26, 2023	Messe Frankfurt, Germany	
3	CPhI Middle East & Africa 2023	TBD	TBD	
4	CPhI China- Virtual CPhI	Dec 20-22, 2022	Shanghai, China	
5	<u>CPhI Japan</u>	Apr 19-21, 2023	Tokyo, Japan	
6	CPhI Korea	30 Aug - 1 Sept, 2023	COEX, Seoul, Korea	
7	<u>CPhI India</u>	TBD	Noida, India	
MECS (Coating Show)				
1	Asia Pacific Coatings Show	Sept 06-08, 2023	Bankok, Thailand	
2	Saudi Arabia Coatings Show	Feb 13-15 2023	Dammam Saudi Arabia	
3	Middle East Coatings Show	June 19-21, 2023	Egypt	
4	Coatings For Africa 2024	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	Dye+Chem Bangladesh International Expo	TBD	Bangladesh		
4	Dye+Chem Brazil International Expo	TBD	Brazil		
		Red Carpet Events			
1	5th Bangladesh Int'l Dyes, Pigments and Chemicals Expo	TBD	Dhaka, Bangladesh		
	7	Turkey (Arkim Group)			
1	InterDye Textile Printing Eurasia	Nov 24-26, 2022	Istanbul		
2	Paint Istanbul TURKCOAT	Feb 7-9, 2024	Istanbul		
3	Paint Expo Eurosia	Apr 09-12, 2024	Istanbul		
		Other Exhibitions			
1	Paint India	Mar 02-03, 2023	JIO World Convention Center, Mumbai		
2	Expo Paint and Coating	July 13-15, 2023	New Delhi, India		
3	CIPI	TBD	Mumbai, India		
4	Chemspec Europe	May 24-25, 2023	Messe Basel, Switzerland		
5	ChemUK Expo	May 10-11, 2023	NEC, Birmingham, UK		
6	American Coatings Show	TBD	Indianapolis		
7	China Coat China	Dec 06-08, 2022	China Import and Export Fair Complex, Guangzhou		
8	Interdye China	TBD	China		
9	Paint Expo Germany	Apr 09-12, 2024	Messe Karlsruhe Germany		
10	India Chem 2023	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.

CPHI CHINA - VIRTUAL CPHI

Date: Dec 20-22, 2022

City: Shanghai New International Expo Center

Country: China

Website: https://www.cphi.com/china/en/about.htm

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 China.

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.

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.







EVENTS AND CONFERENCES

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.





Chemical Technologies on Chemical Market Leads Platform

PP Foot Valve

Company Name: Shital Poly Plast Category: Packaging & Drum

Address : Vasai

DESCRIPTION (Specification)

MATERIAL: HDPE
SIZE RANGE: 25 MM
USAGE / APPLICATION: PLUMBING
HEAD SHAPE: ROUND
PRESSURE CLASS: 20 BAR



FEATURES

• A We "Shital Industries" are a Sole Proprietorship based firm, engaged as the foremost Manufacturer of PP & HDPE Pipes, Pipes-Fittings & Industrial Valves, Welding Rod, Solid Rods etc.

2INCH HDPE TAILPIECE

Company Name: Shital Poly Plast Category: Packaging & Drum

Address : Vasai

DESCRIPTION (Specification)

SIZE/ DIAMETER: 40MM
SIZE: 2 INCH
MATERIAL: HDPE

FITTING TYPE: TAIL PIECE USAGE/ APPLICATION: PLUMBING COLOR: BLACK HEAD SHAPE: ROUND



FEATURES:

• A We "Shital Industries" are a Sole Proprietorship based firm, engaged as the foremost Manufacturer of PP & HDPE Pipes, Pipes-Fittings & Industrial Valves, Welding Rod, Solid Rods etc.







New Chemical Products Listed on Chemical Market Leads Platform

TRIETHYLAMINE / 121-44-8



CAS-Number :-121-44-8 Molecular Formula :- C6H15N

Molecular Weight :- 101.193 mol/g Available Qty :- Kgs

Package Size :- 150 KG MS DRUM Price :- Available on Request

Markets :- Intermediates | Pharmaceutical Intermediates | Pharmaceuticals & API | Indus-

trial Chemicals |

Description: Application: Pharmaceuticals Product Type: Solvent/Liquid Packing Size: 150 Kg Net Weight Packing Type: MS Drum Grade Standard: Pharma Grade Assay/Purity: 99.9%

Density: 0.7255 Boiling Point: 88.6 to 89.8 °C Melting point: -114.70 °C

TETRAHYDROFURAN / 109-99-9



CAS-Number: 109-99-9 Molecular Formula: -C4H8O

Package Size :-180 KG MS DRUM Price :- Available on Request

Markets :- Intermediates | Pharmaceutical Intermediates | Pharmaceuticals & API | Indus-

trial Chemicals | Specialty Chemicals |

Description : Application: Pharmaceuticals Product Type: Solvent/Liquid Packing Size: 180 Kg Net Weight Packing Type: MS Drum Grade Standard: Pharma Grade Assay/Purity: 99.9% Density: 0.8876 Boiling Point: 66 °C Melting point: -108.4 °C Solubility in water: Miscible

PYRIDINE / 110-86-1



CAS-Number :- 110-86-1 Molecular Formula :- C5H5N

Molecular Weight :- mol/g Available Qty :- Kgs

Package Size :- 200 KG PVC DRUM Price :- Available on Request

Markets:- Dyes and Pigments | Intermediates | Pharmaceutical Intermediates | Pharmaceuticals

& API | Industrial Chemicals |

Description : Application: Pharmaceuticals Product Type: Solvent/Liquid Packing Size: 200 Kg Net Weight Packing Type: PVC Drum Grade Standard: Pharma Grade Assay/Purity: 99.9% Den-

sity: 0.9819 Boiling Point: 115.2 °C Melting point: -41.6 °C Solubility in water: Miscible

N, N-Diisopropylethylamine / 7087-68-5



CAS-Number:- 872-50-4 Molecular Formula:- C5H9NO

Molecular Weight :- 99.133 mol/g Available Qty :- Kgs

Package Size :-200 KG PVC DRUM Price :- Available on Request

Markets:- Intermediates | Pharmaceutical Intermediates | Pharmaceuticals & API |

Description : Application: Pharmaceuticals Product Type: Solvent/Liquid Packing Size: 200 Kg Net Weight Packing Type:PVC Drum Grade Standard: Pharma Grade Assay/Purity: 99.9%

Density: 1.028 Boiling Point: 202 to 204 °C Melting point: -24 °C





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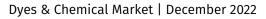
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DMRSÜREN CHEMICAL IND. TARDE. LTD. CO.

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INFINIUM PHARMA-CHEM PVT LTD













Videos

Gorgeous Rainbow-Colored Stretchy Film For Distinguishing Sugars Video

Rainbows and sugar may conjure up images of a certain leprechaun-branded breakfast cereal. But now, researchers in ACS Nano report a kaleidoscope-like film for telling different sweeteners apart that displayed multiple colors when stretched by hand. When evenly stretched with a simple

apparatus, the material enhanced the unique shifts in fluorescence intensity of sugars tagged with a dye, distinguishing between them in beverages and sweat samples. Watch a video of the rainbow film here.

sugars from one another. But these sensors weren't wearable, so, Li, Chunbao Li and a new team wanted to incorporate photonic crystals into a stretchable easy-to-carry film and see whether the rainbow-colored platform could also detect and differentiate sugars.

sensor that distinguished 12 different ers showed that stretching the film en-



Sweet tastes in drinks can come from many types of sugar, including sucrose, fructose and glucose, as well as less common ones, such as maltose. There are also sugars in people's sweat, which could be tracked to noninvasively monitor blood sugar. It's hard to tell which molecules are present based on taste or look alone; instead, they're usually identified with complex methods and sophisticated instruments. To simplify the detection process, Fengyu Li and colleagues previously used photonic crystals — polystyrene nanospheres whose color shifts when sugary compounds are nearby — in a color-changing chip

The researchers embedded closely packed, ordered rows of polystyrene nanospheres into a film of polyethyl acrylate. Initially, the gummy material looked red, but when it was stretched with a uniform force, its color shifted through the rainbow — red to pink to orange to yellow-green to light green and, finally, dark green at a 40% stretch. And when pulled by hand, the material produced a kaleidoscope of colors, as different parts of the material had different forces on them.

In initial experiments, the research-

hanced the fluorescent signals from 14 sugars that had been attached to dyes. These signals could then be sorted from one another. To see if the sensor could do the same with real-world samples. they mixed six commercially available drinks with the dye alizarin red S-2-diphenylboronic

acid 2-aminoethyl ester, creating fluorescent complexes. Solutions with these complexes were dotted onto the film, which was then stretched. the fluorescence intensities were measured different two wavelengths of light. And because each samples' sugar-dye complex-

es produced unique signals, they could be distinguished from each other. The sensor also differentiated sweat samples from six people. Based on these results, the researchers say that the stretchable, multicolored material could be incorporated into wearable devices for environmental, clinical or health monitoring of sugar, or modified to detect other substances.

Source: Chemical Market







Vipul Organics Receives ISO 14001 2015 Certification For Environment Management System

Vipul Organics Limited, the BSE listed (VIPULORG / 530627) leading Specialty Chemicals company in the pigments and dyes segment, has received the ISO 14001 Certification for all three manufacturing facilities at Palghar, Ambernath and Tarapur. The ISO Certification are a benchmark on adherence to effective Environment Management System standards.

"We at Vipul Organics took a strategic approach to improving our environmental performance way before it was made mandatory. The idea is to make as little impact as possible on the environment and reduce the carbon footprint. We have already committed significant resources in ensuring that we uphold a sustainable ecosystem and the latest ISO certification is another step in this direction", says Mr. Mihir V. Shah, Executive Director, Vipul organics Limited.

The company already follows a Zero Liquid Discharge (ZLD) policy at its manufacturing facilities. The plants at Palghar, Ambernath and Tarapur also recycle and reuse over 98% of water.

The Objective of ISO
14001:2015 Certification
is to ensure compliance
with current and future
statutory and regulatory

requirements by addressing environmental issues at a business level and achieve better results. ISO 14001:2015 is intended for use by an organization seeking to manage its environmental responsibilities in a systematic manner that contributes to the environmental pillar of sustainability.

Source: Chemical Market

Beauty Products with Fluorinated Ingredients May Also Contain PFAS, Study Reports

Characteristics are extremely desirable in beauty products, but manufacturers sometimes use ingredients that contain fluorine — including potentially harmful per- and polyfluoroalkyl substances (PFAS) — to achieve them. Now, researchers reporting in ACS' Environmental Science & Technology show that some cosmetics and personal care products labeled as having fluorinated components also contain PFAS, whether or not these "forever chemicals" were listed as ingredients.

Although the most concerning PFAS are no longer used in many beauty products, in some cases they've been replaced with other classes of PFAS that have unknown health and environmental impacts. And a recent study found that numerous cosmetics in the U.S. and Canada still contain these substances. However, it's unclear whether these compounds are in personal care products,

such as creams, cleansers, shampoos and shaving creams. So, Amy Rand and colleagues wanted to examine a variety of beauty products that listed fluorinated components in their formulations for the presence of PFAS.

In 2020 and 2021, the team purchased 38 beauty products available from local stores in Canada and online that contained organofluorine compounds and analyzed them for older types of PFAS.







All of the samples had measurable levels of PFAS, but some of the detected compounds weren't listed as ingredients in the products. The levels found in personal care products were generally lower than in cosmetics. And the team identified that two foundations, labeled with terms similar to "water-proof," had high levels of total PFAS, one of which had thousands of parts per million (ppm), a level that exceeds proposed Canadian PFAS regulations.

Then, the researchers took a subset of the purchased items and screened them for over 200 additional PFAS, including the emerging classes that are replacing legacy compounds. One emerging class — monohydrogen substituted perfluoroalkyl carboxylic acids — was found in 30% of the subset with amounts from less than one ppb to hundreds of ppb. During this analysis, they also found a variety of structurally diverse PFAS that didn't appear to be related to the PFAS originally added to the products, which the researchers suggest could be the result of product ageing or contamination from impurities in raw materials. These results show the diversity of PFAS com-

pounds, and the wide ranges of their amounts, present in some cosmetics and personal care products currently sold in Canada, but the researchers say more work is needed to understand where unexpected PFAS come from.

The authors acknowledge funding from multiple Natural Sciences and Engineering Research Council (NSERC) Discovery Grants, the Canadian Foundation for Innovation (CFI) John R. Evans Leaders Fund and the Fonds de recherche du Ouébec — Nature et technologies.

Source: Chemical Market

American Chemical Society Announces New Ceo Albert G Horvath

ASHINGTON, Nov. 28, 2022 — The American Chemical Society (ACS) Board of Directors has selected Albert G. Horvath, Treasurer and Chief Financial Officer (CFO) at ACS, as the Society's next CEO, effective Jan. 1, 2023. He succeeds Thomas Connelly Jr., who is retiring after nearly eight years with ACS.

"I am pleased that a person with Al Horvath's skill will be the next CEO of ACS," says Paul W. Jagodzinski, chair of the ACS Board of Directors. "His dedication to the mission and core values of ACS, coupled with his experience in member and public-serving organizations, position him well to lead the Society as we move forward."

"I am honored and humbled to have been selected for this role and greatly appreciative to the Board for its confidence in me," says Horvath. "I have developed a deep commitment to ACS, and I look forward

to working with our talented team in serving our members, customers and

the entire chemistry enterprise.
Together with our volunteers, I am confident that we will achieve the

Society's bold vision."

Prior to joining ACS in 2019, Horvath served as Chief Operating Officer and Under Secretary for Finance and Administration at the Smithsonian Institution. There, he oversaw more than 2,200 employees in various Smithsonian offices, including facilities and maintenance, human resources, security, commercial enterprises and financial operations. He joined the Smithsonian in 2011 and served as its Acting Secretary for six

months in 2015. In this role, he worked closely with museum and research center directors to bring the Smithsonian's vast resources — spanning history, art,

culture and science — to the citizens of the U.S. and visitors from around the world.

Horvath's tenure at the Smithsonian was preceded by more than two decades working in senior leadership roles for some of the leading research universities in the country. He was the Vice President for Finance and Business at the Pennsylvania State University (Penn State), his alma

mater, for two years before being named Senior Vice President for Finance and Business/Treasurer. He was responsible for financial, endowment, business and administrative activities at all Penn State campuses, with a \$4.2 billion operating budget.

Before joining Penn State, Horvath was Executive Vice President of Finance and CFO at Columbia University (2004–07), where he had oversight for all financial activities of the university, including the medical center, and developed a five-







year capital plan and debt strategy. And prior to that, he worked at the California Institute of Technology, where he served as the Associate Vice President for Finance and Controller in 2000, before becoming the Vice President for Business and Finance/CFO in 2001, a position he held until joining Columbia University.

From 1994 until 2000, he was Controller at New York University, having previously served in senior roles at Carnegie Mellon University (1988-94). He began his career at Mellon Bank (1981-88) in his hometown of Pittsburgh before moving into higher education.

"Throughout his career, Al has held leadership roles in distinguished organizations committed to scientific advancement," says Connelly. "His broad experience and personal qualities make him the ideal leader of ACS."

A native of Pennsylvania, Horvath earned his master's degree in business administration at Duquesne University in 1985 and his bachelor's degree in accounting at Penn State in 1981. He has served on numerous boards of directors, including the Smithsonian Channel, Green Door, Penn State Hershey Medical Center and Council on Governmental Relations, among others.

Source: Chemical Market

SABIC Introduces High-Performance LEXAN ™ Films, **Expanding PCR Product Portfolio**

- Contributing to Overcoming Global Recycling Issues through Development of Recyclable LEXAN ™ Polycarbonate (PC) Film Using Recvcled Materials
- Offers significant benefits in value chains such as consumer goods, electronics, automotive and construction compared to virgin PC films
- Exhibition and introduction of highly sustainable flame-retardant (FR) and non-flame-retardant high-performance film solutions at Film Tech Japan (high-performance film exhibition)

Tokyo, Japan, December 8, 2022 -SABIC, a global leader in the chemical industry, announces new LEXAN™ film products based on PCR (Post-Consumer Recycled) materials to help realize a recycling-oriented society Strengthen efforts. The solution performs on par with virgin PC film products and offers important sustainability benefits. SAB-IC's new PCR-based films, developed as part of the TRUCIRCLE ™ portfolio and services, are high performance flame and non-flame retardant films for a wide range of applications including graphics, displays, electrical, security and ID cards. Product added. These film products will be exhibited at the Film Tech Japan Exhibition (Hall 6, Booth Nos. 28-52) at Makuhari Messe from December 7th to 9th.

George Kipouras, Business Development Manager for the Functional Foams Business at SABIC, said, "We are committed to a brighter future where plastic does not harm the environment, landfills or oceans. SABIC's innovative PCR film products have been developed to realize this vision, without compromising the high mechanical properties and surface aesthetics of traditional polycarbonate films."

"The new LEXAN PCR film product portfolio will help everyone in the value chain reduce their environmental footprint and turn the global recycling challenge into a business opportunity," said Thomas Hsieh, Product Manager, SABIC Functional Forms. The change is a true game changer: the high PCR content of these products allows electronics companies to earn the EPEAT ecolabel and benefit from Environmentally Preferred Purchasing (EPP). I will."

PCR -based LEXAN EFR film solution

SABIC's LEXAN EFR polycarbonate film line-up includes two new PCR products with high flame resistance (UL 94 V0 at 0.38 mm thickness and VTM0 at 0.178 mm thickness), LEXAN

EFR535 and LEXAN EFR565 was expanded. In addition to high flame retardancy, these new products offer superior mechanical and electrical properties, high chemical resistance, hydrolysis and puncture resistance, dimensional stability at high temperatures, and aesthetics unique to polycarbonate film. I have it. With PCR content of 30% (EFR535) and 60% (EFR565) respectively, they feature non-chlorine/non-bromine flame retardancy, comply with EU RoHS and WEEE 2006, and eliminate halogen flame retardants to support a circular plastic economy. This will enable electrical and electronic device manufacturers to offer products that exceed current environmental standards.

These new grades of PCR-based EFR films have a fine matte finish on one side and a velvet finish on the other. Potential applications include consumer electronics such as battery packs and adapters for computers, laptops and smartphones, thermal/dielectric shields and isolation barriers, die-cut insulators and spacers, labels and overlays.

Non-flame- retardant PCR -based **LEXAN film solution**

SABIC's non-flame-retardant LEXAN film range expands from the first-generation product with 30% PCR







content to the second-generation "LEX-AN 5B85" film with 80% PCR content, significantly improving sustainability. . The film surface of LEXAN 5B85 has excellent scratch and abrasion resistance, as well as high impact resistance, heat resistance and dimensional stability, and is suitable for thermoforming, hydroforming, bending, embossing and die cutting. It has excellent machinability. In the third generation products to be announced in the future, co-extrusion of PMMA and PC will be possible.

LEXAN non-flame-retardant PCR films are also ideal for multi-layer printing and can be screen-printed using conventional solvent-based, water-based, UV- and infrared-drying inks without the need for pretreatment. Potential applications include multi-layer printed overlays, high-performance labels for consumer electronics, LED/LCD displays for audio and video equipment, and automotive dashboards.

High performance LEXAN film series

SABIC offers a comprehensive portfolio of uncoated graphics, coated, display, electrical, security and ID card films, as well as LEXAN, which enhances the adhesion of UV inks to digitally printed self-adhesive labels and decals. ™ DP" film products are also available. These film products offer excellent ink registration and resolution, as well as excellent heat resistance and dimensional stability across a wide range of substrates, thicknesses, UV digital printers and ink types. Depending on the grade, LEXAN DP film can be finished in velvet tone, base (coating) tone, and glossy tone. In addition, for UV digital ink printing and adhesive applications, we are developing a product for digital print film with a hard coat on the first side and a base on the second side.

In addition, SABIC will also develop "LEXAN SDCX" film for ID card applications. By combining a white opaque or transparent core layer with a transparent top layer that is laser engravable, this film product overcomes the challenges of thin-film layers that previously required separate processing. SABIC's new high-transparency SD overlay films are available in 50-micron and 100-micron thicknesses and can be laminated in standard ID card manufacturing processes to integrate identity and security features, make it easier.

Lori Louthan, Global Segment Leader for Functional Foams at SABIC, said, "SABIC engineers continually strive to exceed customer expectations with advanced material solutions combined with sustainable innovation. "While our products are thermoplastic-based and therefore inherently recyclable, our PCR-based renewable products make a significant contribution to true circularity and reduced environmental impact."

Source: Press Release

BASF Launches First Biomass Balance Automotive Coatings in China

- BASF launches automotive coatings using renewable raw materials according to a certified biomass balance approach
- First batch of biomass balance ColorBrite® Airspace Blue ReSource basecoat was delivered to a customer in China. The product will help reduce around 20% product carbon footprint
- BASF has the capability to provide a wide range of biomass balance automotive coatings products to fulfill different customer requirements in China

ASF's ColorBrite® Airspace Blue Re-**D**Source basecoat, certified by REDcert² according to a biomass balance approach, made its debut in China. This

is the first time BASF's biomass balance automotive OEM coatings were introduced to Asia since the official launch in Europe in May of this year.

The first batch of ColorBrite® Airspace Blue ReSource basecoat has been delivered to a customer in China. This basecoat product enables around 20% reduction in product carbon footprint. The saving number is reviewed by a third-party external sustainability consultant. Being part of the biomass balance version of BASF's ColorBrite waterborne basecoat portfolio, ColorBrite® ReSource adds a reduced carbon footprint without the need to alter the product's formulation and performance.

BASF has also received the biomass certification for its resins plant in Caojing, as well as its paint manufacturing sites in Minhang and Caojing operated by BASF Shanghai Coatings Co., Ltd. With this certification, BASF has the capability to provide its customers in China a comprehensive range of biomass balance certified automotive coatings solutions using materials derived from renewable raw materials.

"Replacing fossil-based feedstock with renewable raw materials through BASF's biomass balance approach symbolizes our pledge to helping our customers achieve their carbon emission targets while retaining the same high







quality and performance
of the product. The biomass balance approach
certification for our sites
in China reinforces our
commitment of being an
industry leader in driving
sustainability and innovation. We look forward
to cooperating with more

OEMs in China by contributing to a resource-efficient and carbon-neutral future together," said Jack Zou,
Vice President, Automotive
OEM Coatings Solutions
Asia Pacific, BASF.

In BASF's biomass balance approach, renewable raw materials are used as raw

materials when manufacturing primary chemical products in the production site. The proportion of renewable raw materials is then attributed to certain sales products according to a certified mass balance method. REDcert² is a certification system for the sustainable use of biomass, which confirms that BASF has replaced the quantities of fossil resources required for the biomass balanced product sold with renewable raw materials.

Source: BASF

Dow Further Commits to Automotive Innovation with Launch of Selective Adhesion Liquid Silicone Rubber Series

Midland, Mich., – December 08, 2022– Dow (NYSE: DOW) announced the launch of its SILASTIC™ SA 994X Liquid Silicone Rubber (LSR) series as the Company continues to innovate for smarter, safer and more sustainable technologies for the mobility and transportation industry.

The SILASTIC™ SA 994X LSR series is a range of primerless, self-adhesive, general purpose and self-lubricating, one-to-one mix ratio LSRs designed for two-component injection moulding with thermoplastic substrates including, but not limited to, polybutylene terephthalate and polyamide. This new series can be used across multiple automotive applications such as connector seals, battery vent gaskets and radiator gasket seals for electric and hybrid vehicles, as well as environmental protection seals for autonomous vehicles' lidar and radar housing.

This launch builds on Dow's previously announced capacity expansions and investments for the mobility and transportation market, which included the installation of a new LSR mixer at the

Company's production site in Zhangjiagang, China in 2021.

"The investments we've made in our liquid silicone rubber capacities were both an exciting and necessary step for us as we work to provide the best possible material solutions for our mobility customers," said Jeroen Bello, Global **Marketing Director for Mobil**ity and Transportation. Dow **Consumer Solutions.** "Our expanded ability to produce these technologies has enabled further advancements from our engineers, which deepens the level of collaboration that we bringing to the table."

The products within the series offer automotive manufacturers several key benefits including:

- Durable adhesion under heat and humidity
- Instant development of full bond strength
- 12-month shelf-life stability
- Robust and instant adhesion to multiple plastic and metal substrates throughout the products' shelf life without the need for further heat treatment

"As the requirements of automotive OEMs and tiers continue to evolve in response to the rapid change occurring throughout the industry, it's of the utmost importance that they have the tools they need to keep up to speed," said Bello. "Liquid silicone rubbers are a critical material in multiple mobility and transportation applications and our team at Dow is continuously working toward greater global level innovation within this product category. With the addition of the SILASTIC™ SA 994X LSR series to our portfolio, we are even better positioned to support the needs of our customers today and in the future."

Source: Dow









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