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DYES & CHEMICAL MARKET

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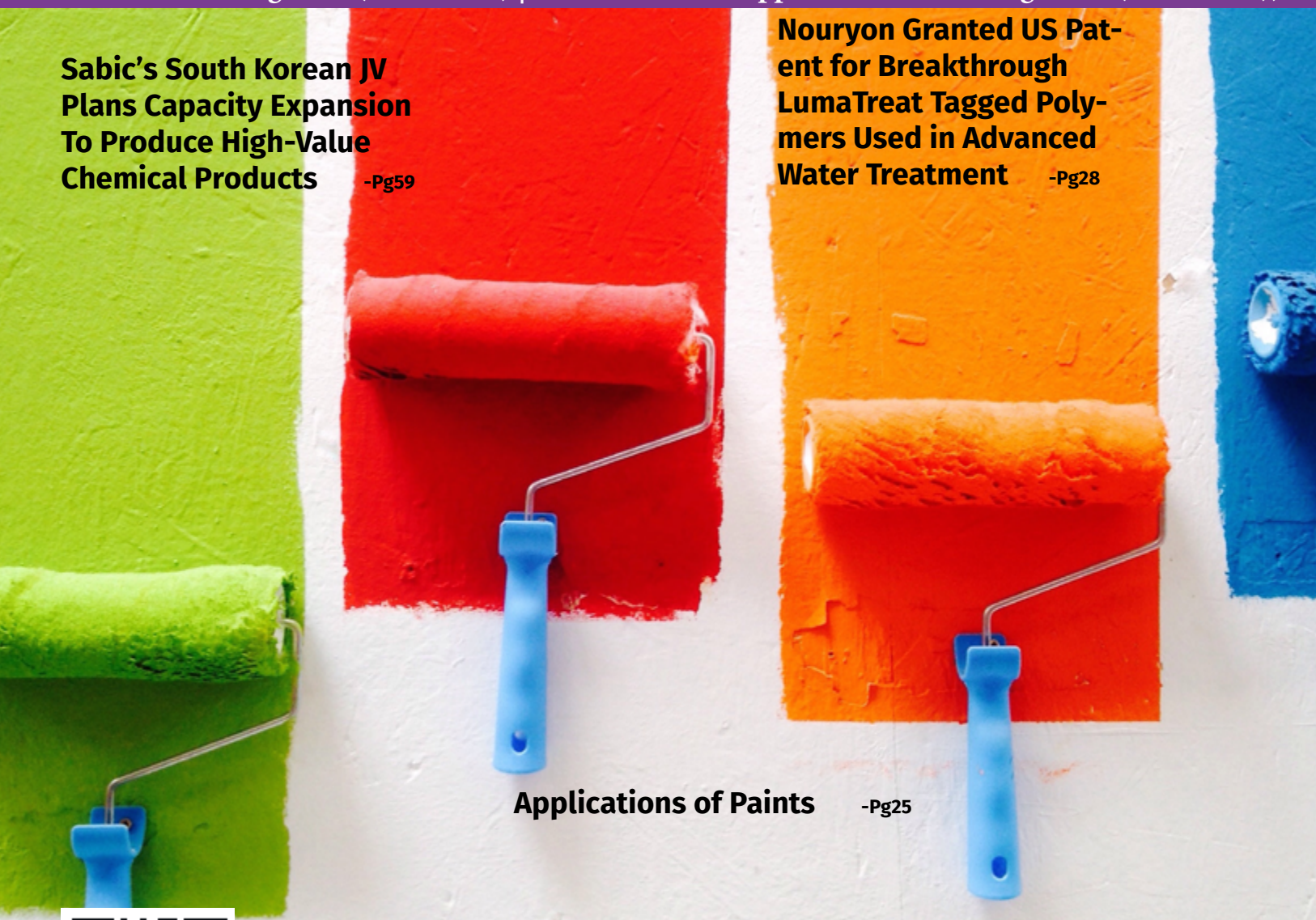
40th Year SINCE 1982

A MONTHLY MAGAZINE DEVOTED TO

DYES CHEMICALS PHARMACEUTICALS API TEXTILE AUXILIARIES PAINTS SOLVENTS COSMETICS




Azadi Ka Amrit Mahotsav
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Ministry of Chemicals and Fertilizers
Department of Chemicals and Petrochemicals
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INDIA CHEM 2022
02nd - 03rd November 2022
Pragati Maidan, New Delhi
"Vision 2030 - Chemicals & Petrochemicals Build India"
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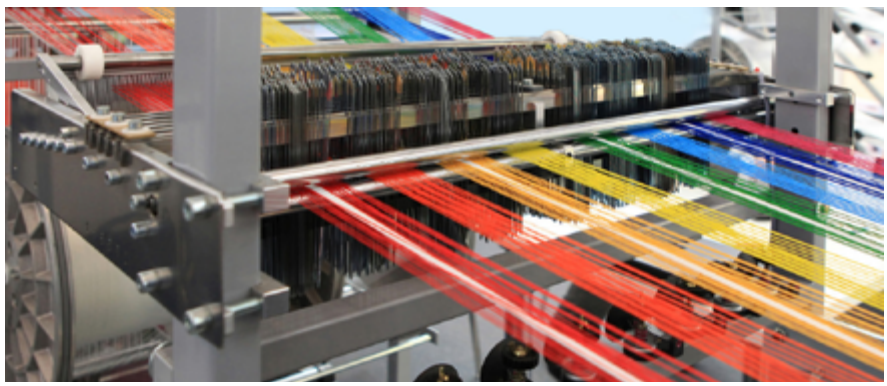

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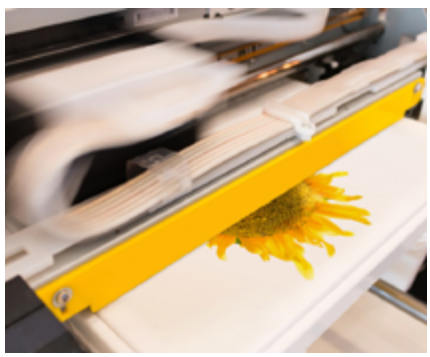

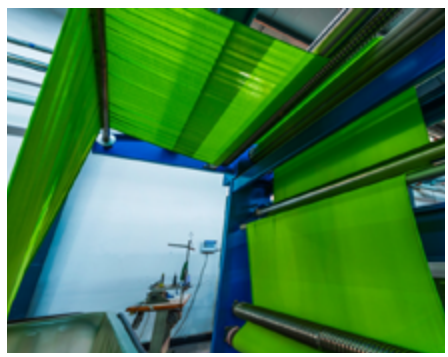

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Email : atul@kscl.co.in, daya@kscl.co.in
Website : www.kscl.co.in

Chemical Market Portfolio : https://www.chemicalmarket.net/profile/krishnasolvechem

Event information may be out of date due to the coronavirus (COVID-19).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

CHEMICAL MARKET

No	Exibitions	Date	Place
CphI - Informa Group			
1	CPhI North America	Apr 25-27, 2023	PHL
2	CPhI Worldwide Germany	Nov 1-3, 2022	Messe Frankfurt, Germany
3	CPhI Middle East & Africa 2023	TBD	TBD
4	CPhI China- Virtual CPhI	Dec 20-22, 2022	Shanghai, China
5	CPhI Japan	Apr 19-21, 2023	Tokyo, Japan
6	CPhI Korea	Sept 28-30, 2022	COEX, Seoul, Korea
7	CPhI India	Nov 29 to Dec 1, 2022	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	Nov 08-10 2022	Brazil
Red Carpet Events			
1	5th Bangladesh Int'l Dyes, Pigments and Chemicals Expo	TBD	Dhaka, Bangladesh
Turkey (Arkim Group)			
1	InterDye Textile Printing Eurasia	Nov 24-26, 2022	Istanbul
2	Paint Istanbul TURKCOAT	Apr 04-06, 2023	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 Coatings	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 2022	Nov 2-3, 2022	Pragati Maidan, New Delhi
11	India Lab Expo 2022	Sept 15-17, 2022	Hyderabad, India

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- Beta Naphthol to G. Salt
- G Salt to Amido G Acid
- Amido G. Acid to Gamma Acid
- Naphthalene 2:7 Disulfonic Acid (For Acid Green-16)

AAKAR DYES

Contact
Bharat Mehta
AAKAR DYES AND CHEMICALS (Admin Office)
Mob: 09820508901 / 08080426035
Email ID : bmaakardye@gmail.com • Skype ID : bharatmehta63 • Website : www.aakardye.com

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Product Inquiry:
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Product Name	Qty	Grade
NaOH flakes	360 Kg	Chemical
Sodium Metabi Sul-phate	255	Chemical
Sodium Hypochlorite	480 Kg	Chemical
HCL	1115 Kg	Chemical
Alum	160 Kg	Chemical
Industrial Salt	10800 Kg	Chemical
Oil Disperant	207 Kg	Chemical
Polyelectrolyte Anionic	235 Kg	Chemical
Genesys RC (Anti-scalant)	962 Ltr	Chemical

Details : Required Rate with MSDS and Other Certificate
Swapnil Salunke - Zen Engineering
Plot # A-269, Road # 33 A,Wagle Industrial Estate,
Near ESIS Hospital, Thane (West)-400604.
Maharashtra, INDIA
Web: www.zenengineering.net
Email: purchase@zenengineering.in
Switchboard.: +91-989-283-1911

Product Name	Qty	Grade
ISO Propyl Alcohol	1 Tonnes	Industrial

Details : Need Quote for IPA. Please reply via email/phone.
Rajkumar Mandal
Boisar, Maharashtra, India
Email : info@myteepol.com
Mobile : 9967800437

Product Name	Qty	Grade
Strontium carbonate powder imported	1000 Kgs	Industrial
Metaldehyde	100 Kgs	Technical
Azidotetrazole	100 Kgs	Technical
Strontium carbonate	1000 Kgs	Technical
phenolic resins	1000 Kgs	Technical

Details : we are interested to buy strontium carbonate pow-der imported solvay material pl contact 9443164779 py-rocheme@gmail.com
we are interested to buy metaldhyde and Azidotetrazole in bulk for industrial applications pl contact 9443164779
we are interested to buy strontium carbonate powder im-ported
Sunairaja. t
Sivakasi, Tamil Nadu, India
E-mail : pyrocheme@gmail.com **Mobile : 9443164779**

Product Name	Qty	Grade
2,3 DCP (CAS # 2402-77-9)	15 MTs	Industrial

Details : Need for August. Please reply via email/phone.
Dr. Deepak Birewar
Inventys Research Company
Email : dBirewar@Inventys.in
Mobile : +91-961-966-6333

Product Name	Qty	Grade
Detergent and Home Care Product	Contain-er Truck load	

Details : Prefer direct manufacturer or exporters only.
Jagdish Thakral
Shri Hariram Export Pvt. Ltd.
Email: jthakral@kailashgroup.com **(preferred)**
Phone : 0712-273-4041

Product Name	Qty	Grade
Pharma Intermediates	-	

Details :
Arnish
Chemox Chemopharma Industries
Email : vekariya.arnish@ymail.com
Mobile: +91-990-908-3070 (preferred)

Product Name	Qty	Grade
Acetonitrile - Virgin - 99.9% pure - CAS Number: 75-05-8	500 Kgs	VirginPure

Details : No recycled or recovered Acetonitrile, only fresh material please.
Mr Kunal Kamat (Procurement Agent)
Kunal Chemicals Trading
Email : kunalchemicaltrading@gmail.com
Mobile : +91-932-001-3358

Product Name	Qty	Grade
CAS NO 60-00-4 - EDTA Acid	1 Tonnes	Industrial

Details : Please reply via email/phone
Parthiv
Shiv Chem Industries
Email : chelateshivchem@yahoo.co.in
Tel.: 079-2282-3447

Product Name	Qty	Grade
Sofosbuvir and Daclatasvir		

Nirav Patel
Indamed Pharmaceuticals Pvt. Ltd.
Email : indamedpharma@yahoo.co.in
Mobile : +91-968-787-7922 (Prefered)

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Product Name	Qty	Grade
Nigrosine Black Dyes	1 Can	Industrial

Details :
Gary Brent
Auckland, New Zealand
Email : gary.brent@washtech.co.nz
Mobile : +64-2195-5732

Product Name	Qty	Grade
n Butyllithium 23%	5 T	Chemical

Details :
Sook Young Yoon
Gyeonggi-do, South Korea
Email: syyun@jtcs.co.kr
Mobile: +82-318-016-8258

Product Name	Qty	Grade
Potassium iodide-IP-BP-USP	1KG	Virgin Pure

Deepak Kala
Hyderabad, Telangana, India
Email : deepak.kala@vbshilpa.com
Mobile : +91-706-055-5929

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

Details :Required on regular basis. Min Qty 2000 Ltr.
Mr. Jitendra Bhalgat
Ahmednagar, Maharashtra, India
Email : jbhalgat11@gmail.com
Tel.: 9422220871

Product Name	Qty	Grade
2-Phenoxyethanol	220 Kgs	Industrial
122-99-6 // P12030		

Nandakishore
Bangalore, Karnataka, India
Email : nkshetty@wilber.co.in
Tel.: +91-901-965-0701

Product Name	Qty	Grade
Toulene	5000 Kgs	Industrial

Details : Kindly arrange to send us quotations
Santosh Taksale
Pune, MH Mobile: 9028843799
Email:santosh.taksale@manikchandpackaging.com

Product Name	Qty	Grade
Triethylsilane 98%	500 gms	Industrial

Details :

Honest Traders (India)
Email : honestchem3@gmail.com
Mobile : +91-635-177-0203

Product Name	Qty	Grade
Naphthalene Powder	-	
Para Di Chloro Benzene Powder		
Camphor Powder		

Details :
Xavi
Gabhri Pharma (Manufacturer)
E-mail : fragrancevalley1992@gmail.com
Mobile : 9847687718

Product Name	Qty	Grade
Resorcinol	-	
Triethyl amine		
Paraformaldehyde		
Formaldehyde		

Details :
Ashok Patil (Manufacturer)
DD Patil Chemicals, Amalner Dist Jalgoan
Email: ddchemicalsales@gmail.com
Mobile: +91-735-022-6099

Product Name	Qty	Grade
Pine Oil	-	
Emulsifier Alfox200		
various TOP		

Details : I need total raw materials for mfg. of Detergent powders, Floor cleaning Liquid etc.
Arvindbhai Vadhadia
NewCera Minechem (Manufacturer)
Email : newceraminechem62@yahoo.com
Mobile : +91-9429460123

Product Name	Qty	Grade
caustic soda flakes 98% sodium hydroxide	500 Kgs	Chemical

Details : Need this 5 Tonnes.
EMEL KILINÇ
Gaziantep, Türkiye
Email : satinalma@toren.com.tr
Mobile : +90-535-454-0331

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

Details : Required On Regular Basis. Min Qty 2000 Ltr.
Jitendra Bhalgat
Ahmednagar, Maharashtra, India
Email : jbhalgat11@gmail.com
Mobile : 9422220871

Product Name	Qty	Grade
Sodium Hypochlorite	500 Kgs	Industrial

Details : We need this product on a regular basis (Monthly) Please contact us if you are a manufacturer or a distributor. (Required in and around Calicut Kerela)
Rajshree Varshney
Mumbai, Mh
Mobile: + 917520945076
Email : rajshree.varshney@gmail.com

Product Name	Qty	Grade
Tera Hydrofurin (thf)	-	

Details : We are Trader and Deal in api and solvents
Rajiv Kapoor
Global Enterprises (Traders)
Mobile: 8866506582
Email : globalenterprisespurchase@gmail.com

Product Name	Qty	Grade
Modified Starch	1 Tonnes	Technical

Details : for our won purpose
Purushotham M
Salem, Tamil Nadu, India
Mobile: +919443326055
Email : sreestarch@gmail.com

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

Details : for our won purpose
Chetan Lakhpati
Thane, Maharashtra, India
Mobile: 9920337763 Email : clakhpati@gmail.com

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info@chemicalmarket.net or visit
https://www.chemicalmarket.net/search

Product Name	Qty	Grade
QUARTASEPT (CMD 14-005)	500 Kgs	Chemical

Details : An Aviation/Airline Disinfection product that complies with the widely used industry specifications AMS1452 or AMS1453 (Such as substances containing 62% -71% ethanol alcohol, 0.5% hydrogen peroxide, or 0.1% sodium hypochlorite).
Kishor at Moglix
Noida
Mobile: 96503-64721
Email : Kishor.tarafdar@moglix.com

Product Name	Qty	Grade
DIRECT BLUE-71	200Kgs	Industrial

Can blue 71 pass EN71 certification? How much does it cost?
Email : steven@chifra.com.tw
Mobile : +88-691-352-0913

Product Name	Qty	Grade
Fast Red KD Base (HS Code – 29225014)	2 t every month	
Napthol AS-LC (HS Code – 32041929)		
Napthol ASIRG (HS Code - 29242990)	500 kg every month	
Dimethylsuccinylo Succinate (DMSS) – HS Code 29181990		
Napthol AS – HS Code 29242990		
Napthol AS-PH - HS Code - 32041921		
1,2-Bis(2-aminophenoxy) ethane – HS Code 29222990		
2,4,6 Trichloro Aniline	100 Kgs	Chemical

Details :
Pravin Iyer
AT Pigments (Manufacturer)
Email : pravin.iyer@atpigments.com
Mobile : 9898507767

Product Name	Qty	Grade
Sulphur Granules	30 Tonnes	Industrial

Details :
DERRICK MWANSA
Chingola Central, Chingola, Zambia
Mobile: +26-097-759-2183
Email : derrick.mwansa@rgpm-group.com

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Product Name	Qty	Grade
Titanium dioxide		

Details :
P. DO. SHAH
SEMITONE INDIA (Manufacturer)
Email : prakash@pcf.co.in
Mobile : 918850655380

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Product Name	Qty	Grade
Glacial Acetic Acid	30 Kgs	

Details : Please send us the below information of this product with COA / spec If you have any query then feel free to contact me directly. Thank you in advance, and look forward to receive the requested information from you. Abhishek Jha (Executive Purchase)
Abhishek Jha
Valsad, Gujarat, India
Email : pur5@triveniinterchem.com

Sales Enquiries

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Product Name	Qty	Grade
Barium Titanate		
Calcium Titanate		
Lead Titanate		
Lithium Titanate		

Details :
P. DO. SHAH
SEMITONE INDIA (Manufacturer)
Email : prakash@pcf.co.in
Mobile : 918850655380

Product Name	Qty	Grade
Industrial Label Gum 38051010		

Details :
Janardhan
Katyayani Polymers (Manufacturer)
Email : katyayanipolymers@gmail.com
Mobile: +91-995-990-0375

Product Name	Qty	Grade
Purified Terephthalic Acid	-	Trader

Details :
Rakesh Bachani
Royal Chemicals (India)
Email : info@royalchemindia.com
Mobile : +91-922-150-3305

Product Name	Qty	Grade
Toluene c9 and solvents	-	Trader

Details : We are Trader and Deal in api and solvents
Rajiv Kapoor
Global Enterprises (Traders)
Mobile: 8866506582
Email : globalenterprisespurchase@gmail.com

Product Name	Qty	Grade
Reactive Dyes	Bulk	Distributor
Ramazoles		
Vat Dyes		

Details :
M/s Diamond Dyes Industries Pvt. Ltd.
102, Nain Krupa, 1st Floor, 118/112, Kazi Sayed Street, Masjid (West), Mumbai - 400 003
Tel: 022-2340-2754
Mobile: (Bharat Bhai) 093241-36095
Dilip: 093242-48986
Email: bharatd18@gmail.com

Product Name	Qty	Grade
Atul Direct Fast Orange GR		
Atul Direct Violet Extra		
Atul Direct Fast Scarlet 4BS		
Atul Acid Orange II		
Atul Crocein Scarlet Moo		
Amarthol Asph		
Solophenyl Fast Grey Rln		
Ciba Typewriter Brand Direct Green		
Solophenyl Blue BL 200		
Chemicals		

Mitesh Modi
Contact : 9830090208, 9339459367
Email : amritdyes1952@gmail.com

To Post your enquiries contact
info@chemicalmarket.net
or visit
https://www.chemicalmarket.net/search

Sales Enquiries

Product Name	Qty	Grade
Alfa Napthols		
Diethyl Meta Toluidine		
2 Nitro Di Methyl Tere-phthalate		
5 Nitro 2 Amino Phenol		
Aceto Acetanilide		
Meta Phenylene Di-amine		
Ortho & Para Anisidine		
Dye Intermediates		Broker
Chemicals		Broker

Details
M/s H. Rameshkumar
Goradia House, 3rd Floor, Room No. 309, 100/104, Kazi Sayed Street, Mumbai - 400-003
Tel: 022-2344-4365
Mobile: +91-93231-36833

Product Name	Qty	Grade
2Methoxy Naphthalene which is use in agarbatti and perfume		
4 chloro anisole		
Sodium sulphate		

Details :
Ashok Patil
DD Patil Chemicals, Amalner Dist Jalgoan
Email: ddchemicalsales@gmail.com
Mobile: +91-735-022-6099

Product Name	Qty	Grade
ACETIC ACID cas number 64-19-7 / Hsn number 29152100		
Hydracloric Acid		

Details :
Dinesh Gupta
HARESH ENTERPRISES (Wholeseller)
Email: setuenter@yahoo.co.in
Mobile: +91-9824200441

Product Name	Qty	Grade
Ammonium Sulphate caprolactum grade		

Details :
Manish
SM Dharani Chem Pvt Ltd(Manufacturer)
Email : manish@smdcpl.in
Mobile : 9879408765

Product Name	Qty	Grade
Sodium Bi Sulphate	-	-

Details :
M/s Anant Corporation / Nitish Enterprise
203, Dariyasthan Chambers, 2nd Floor, 33, Dari-**yasthan Street, Masjid (West), Mumbai - 400 003**
Tel: 022-6331-2140 Fax: 022-2347-1894
Mobile: 098200-92170, 098198-61068
Email: nitish2846@gmail.com

Product Name	Qty	Grade
Plastic Bottles		
Carboys		
M.S. Capsules		
Bungs		
All Types of Sealing Machines		

Details :
M/s Samir Brothers
Ashok Niwas, 2nd Floor, Daulat Nagar, Road No. 3, **Borivali (East), Mumbai - 400 066.**
Tel: 022-2808-1542 / 022-2805-9475 / 022-2855-8035 (R)
Contact For: Plastic Bottles, Carboys, M.S. Capsules, Bungs & All Types of Sealing Machines

Product Name	Qty	Grade
Red 195	-	-
Red 196		
Red cd		
Orange me2rl		
Orange 72		
Fast Magenta		
Yellow FG		
Blue me2rl		
Blue gg		
Blue me2gl		
Blue 222		
Yellow ME4GL		
Yellow H7GL		
Yellow 95(P6GS)		
Yellow 37(GL)		
Yellow HE6G		
Red (P4BN)		
Red HE88		
Red HE7B		

Details :
Jitendrabhai
Mobile : +91-9904063662

Sales Enquiries

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Product Name	Qty	Grade
Pigment Yellow 74 (5 GX) (2 GX)		
Pigment Red 146		
Pigment Yellow 83		
Pigment Red - 2		
Pigment Violet - 19		
Red - 122		
Red - 112		
Yellow - 180		
Yellow - 151		

Details : We want Indian manufacturers for pigment intermediates listed above. we are into manufacturing organic pigments.
Pravin Iyer
AT Pigments (Manufacturer)
Email : pravin.iyer@atpigments.com
Mobile : 9898507767

Product Name	Qty	Grade
Textile binders		
Paint & Construction Chemicals		
Wood Adhesives		
Adhesives for Printing & Packaging Industries		
Leather Chemicals		

Details :
R P Agrawal
Texochem Industries (Manufacturer)
Email : info@texochem.com
Mobile : 919820217042

Product Name	Qty	Grade
Glycerine	12 Tons	Manufacturer

Details :
Tajinder Goyal
Softex Surgial
Email : Tajinder.goyal@gmail.com
Ph: +91-980-555-6667

Product Name	Qty	Grade
Pharma Intermediates	-	

Details :
Arnish
Chemox Chemopharma Industries (Manufacturer)
Email : vekariya.arnish@ymail.com
Mobile: +91-990-908-3070

Product Name	Qty	Grade
KAILASH brand detergent paste		
detergent round tablet		
home care products for cleaning purpose		

Details :
Jagdish Thakral
Shri Hariram Export Pvt. Ltd. (Manufacturer)
Email: jthakral@kailashgroup.com
Phone : 07122734041

Product Name	Qty	Grade
Polyacrylamide		
Hydrochloric Acid		
Indutrial Safety Mask		

Details : Bulk requirement
Amit Dave
Amit International (Distributor)
Email : amitintl@zoho.com
Mobile : 9821323563

Product Name	Qty	Grade
Hydrazine Hydrate 80%		

Details : we have stock of our own imports
Anamika soni
Punjab Chemicals & Crop Protection Ltd (Manufacturer)
Email : anamika@punjabchemicals.com
Mobile : 9867724805

Product Name	Qty	Grade
EDTA Tetra Sodium Liquid	-	

Details :
Parthiv
Shiv Chem Industries (Manufacturer)
Email : chelateshivchem@yahoo.co.in
Tel.: 079-2282-3447

Product Name	Qty	Grade
Diflubenzurone	250 Kg 500 Kg	

Details :
CHANDRESH HAPANI
ANIMED (Distributor)
Email : animed6@yahoo.co.in
Mobile : 9830175616

Sales Enquiries

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Product Name	Qty	Grade
Sulphur Powder		
Sulphur Roll		

Details : we are manufactuers of Sulphur powder and Sulphur roll
Adesh
J.K.Industries, Deoband (Trader)
Email : jkind.dbd@gmail.com
Mobile : 9412113914

Product Name	Qty	Grade
Mercuric Chloride		

Details :
Surendra Agrawal
Ankur Chemicals (Manufacturer)
Email : ankurchemical@yahoo.com
Mobile : 09352500959

Product Name	Qty	Grade
Personal Care		
Home Care		
Detergent raw materials		
APG		
Decyl glucoside		
Coco Glucoside		
Lauryl Glucoside		
Saurasoft 612 (Lipid Layer Enhancer)		
MES Liquid (Methyl Ester Sulphonate)		
PEG 400		
Defoamer		
Emusifier		
Wetting Agent		
Buffering agent - pH stabiliser		
Klenz B - Disinfectant Cleaner		
FW 351 - Glucoside based fruit and vegetable wash		
Saurawash 201 (Concentrated Glucoside based antimicrobial Hand Wash)		

Details :
Prashant Satpute
Sauradip Chemical Industries Pvt. Ltd. (Manufacturer)
Email : prashant.satpute@sauradip.com
Mobile : 09769015004

Product Name	Qty	Grade
Solvent Dyes (solvent yellow 82 & orange 62)		

Details :
Prakash Patel
NAVDURGA DYES & CHEMICAL (Manufacturer)
E-mail : navdurgadyes@gmail.com
Mobile : 9022673905

Product Name	Qty	Grade
Sanitizing Alcohol Swabs 70 percent IPA / 67-63-0 / 3005 / Isopropyl Alcohol / 70 percent / Medical	Bulk	Medical

Details :
Sameer Makhija
Mak Medicals Private Limited (Manufacturer)
Email : makmedicalsltd@gmail.com
Mobile : +91-987-140-8777

Product Name	Qty	Grade
Inorganic Salts		

Details :
Santosh Thakre
S S Fine Chem Laboratories (Manufacturer)
Email : ssfinechemlaboratories@gmail.com
Mobile : +91-986-777-4142

Product Name	Qty	Grade
Borax	Bulk	

Details :
Sandip Agarwal (Distributor)
Supreme Borochem Private Ltd
E-mail : sandip@sbpl.co.in
Mobile : +91-983-100-1334

Product Name	Qty	Grade
General Tablets and Liquid Syrup		
NSAIDs		
Cough syrup		
Narcotics formulation		
Antibiotics		

Details :
Nirav Patel
Indamed Pharmaceuticals Pvt. Ltd. (Manufacturer)
Email : indamedpharma@yahoo.co.in
Mobile : +91-968-787-7922

Contents

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

About the Paint Industry - Applications Part 3

Paint can be applied as a solid, a gaseous suspension (aerosol) or a liquid. Techniques vary depending on the practical or artistic results desired.

As a solid (usually used in industrial and automotive applications), the paint is applied as a very fine powder, then baked at high temperature. This melts the powder and causes it to adhere to the surface. The reasons for doing this involve the chemistries of the paint, the surface itself, and perhaps even the chemistry of the substrate (the object being painted). This is called "powder coating" an object.
As a gas or as a gaseous suspension, the paint is suspended in solid or liquid form in a gas that is sprayed on an object. The paint sticks to the object. This is called "spray painting" an object. The reasons for doing this include:

- The application mechanism is air and thus no solid object touches the object being painted;
- The distribution of the paint is uniform, so there are no sharp lines;
- It is possible to deliver very small amounts of paint;
- Painting multiple items at once quickly and efficiently;
- A chemical (typically a solvent) can be sprayed along with the paint to dissolve together both the delivered paint and the chemicals on the surface of the object being painted;
- Some chemical reactions in paint involve the orientation of the paint molecules.

In the liquid application, paint can be applied by direct application using brushes, paint rollers, blades, scrapers, other instruments, or body parts such as fingers and thumbs.
Rollers generally have a handle that allows for different lengths of poles to be attached, allowing painting at different heights. Generally, roller application requires two coats for even color. A roller with a thicker nap is used to apply paint on uneven surfaces. Edges are often finished with an angled brush.

- Using the finish flat one would most likely use a 1/2" nap roller
- Using the finish eggshell one would most likely use a 3/8" nap roller
- Using the finish satin or pearl one would most likely use a 3/8" nap roller
- Using the finish semi-gloss or gloss one would most likely use a 3/16" nap roller

After liquid paint is applied, there is an interval during which it can be blended with additional painted regions (at the "wet edge") called "open time". The open time of an oil or alkyd-based emulsion paint can be extended by adding white spirit, similar glycols such as Dowanol (propylene glycol ether) or open time prolongers. This can also facilitate the mixing of different wet paint layers for aesthetic effect. Latex and acrylic emulsions require the use of drying retardants suitable for water-based coatings. Depending on the quality and type of liquid paint used, the open time will vary. Oil paints for instance are renowned for their open time as oil paints allow for artists to blend the colors for extended periods of time without having to add any extending agents. Paint application by spray is the most popular method in industry. In this, paint is aerosolized by the force of compressed air or by the action of high pressure compression of the paint itself, and the paint is turned into small droplets that travel to the article to be painted. Alternate methods are airless spray, hot spray, hot airless spray, and any of these with an electrostatic spray included. There are numerous electrostatic methods available.

Dipping used to be the norm for objects such as filing cabinets, but this has been replaced by high speed air turbine driven bells with electrostatic spray. Car bodies are primed using cathodic elephoretic primer, which is applied by charging the body depositing a layer of primer. The unchanged residue is rinsed off and the primer stoved. Many paints tend to separate when stored, the heavier components settling to the bottom, and require mixing before use. Some paint outlets have machines for mixing the paint by shaking the can vigorously for a few minutes. The opacity and the film thickness of paint may be measured using a drawdown card. Water-based paints tend to be the easiest to clean up after use; the brushes and rollers can be cleaned with soap and water. Proper disposal of left over paint is a challenge. Sometimes it can be recycled: Old paint may be usable for a primer coat or an intermediate coat, and paints of similar chemistry can be mixed to make a larger amount of a uniform color.

To dispose of paint it can be dried and disposed of in the domestic waste stream, provided that it contains no prohibited substances (see container). Disposal of liquid paint usually requires special handling and should be treated as hazardous waste, and disposed of according to local regulations.

-Rajiv Parikh

Worldwide Thermoplastics Prepreg Industry to 2026 - by Reinforcement Type, End-use and Region

DUBLIN, Aug. 11, 2022 /PRNewswire/ This report will cover the thermoplastic prepreg industry. Definitive and detailed estimates and forecasts of the global market are provided, followed by a detailed analysis of the regions, countries and applications. Furthermore, the on-going market trends, market growth drivers and challenges impeding the market are discussed.

The market size and estimations will be provided in terms of revenue considering 2020 as base year, and market forecasts will be given from 2021 to 2026. The market size for regional (regions by end use) and country-level (countries by end use) will also be covered. The impact of COVID-19 is also considered while deriving market estimations.

The primary difference between thermoset and thermoplastic prepreg is that thermoplastic prepregs are stable at room temperature, have increased toughness and better recyclability. The chemical properties of thermoset become permanently strengthened when exposed to heat. Once thermoset plastics are altered by exposure to heat, they cannot be remolded. Thermoplastics, on the other hand, can be reheated and remolded without changing their chemical makeup.

Global markets, thermoplastic prepreg segments and growth forecasts through 2026 are offered. Sales value estimates are based on prices in the supply chain. Market-driving forces and industry structure are examined. International aspects are analyzed for all global regions and for types of thermoplastic prepreg. Profiles of major global manufacturers are presented.

This report considers the impact of COVID-19. In 2020, the growth rate of manufacturing industries around the world was severely affected by the pandemic. The COVID-19 pandemic halted progress in every regional economy. Various governments around the world are taking necessary measures to contain the economic slowdown.

The thermoplastic prepreg market is further segmented by reinforcement type: glass fiber prepreg, carbon fiber prepreg and others (aramid, hybrid etc.). By end use, the market is segmented into aerospace and defense, automotive, wind energy, sports and recreation, and electronics, (including civil engineering, marine, etc.).

Read the full report : https://www.researchandmarkets.com/r/f3deer

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Bullet Liner™ USA Announces Launch of Bullet Liner RPM™--Its All-Purpose Spray-on Protective Coatings for the Fleet Vehicle Market

CARLISLE, Pa., Aug. 16, 2022 /PRNewswire/ -- Bullet Liner USA (www.BulletLiner.com), a leading manufacturer of spray-on protective coatings for the automotive and truck market, today announced the rollout of its new RPM™ all-purpose formulation. RPM is designed specifically for service pick-ups; delivery vans and trucks; construction equipment; police, fire, and emergency service vehicles; tractor trailers; utility service and crew trucks; trailers; ATVs; and UTVs. Bullet Liner RPM provides fleet operators with a cost-effective way to safeguard their vehicle investment, extend service life, and keep it looking in top shape.

"Bullet Liner RPM is a spray-on permanent protective coating system designed for rough service applications and industrial and commercial fleets," said Jill Deamer, Global Marketing Brand Manager for Bullet Liner. "Bullet Liner RPM is ready-made for the rigors of the fleet market because it specifically protects and extends the life and appearance of fleet vehicle exteriors and keeps equipment 'on equity' while on the job. It's the best investment a fleet operator can make to enhance the value of their entire fleet—from 'bumper to fender'."

Bullet Liner RPM is constructed to provide a flexible but extremely tough monolithic membrane with a uniform

and ultra-fine surface texture. This elastomeric coating offers heavy duty protection against dents, dings, scratches, and other damage incurred on the highway or the work site. Additionally, Bullet Liner is impervious to weather extremes and won't crack, fade, peel, or bubble, even after long exposure to the blistering sun in the summertime or to freezing temperatures in the wintertime. Bullet Liner coatings can also be custom matched to existing color shades, and they offer UV protection to retain color brilliance and vibrancy.

Adds Deamer, "Fleet operators who select Bullet Liner RPM to protect their vehicles can rely upon a robust, supportive dealer network that understands the cost of downtime and strives to make doing business with our Bullet Liner authorized dealers as seamless as possible. We offer highly trained applicators who offer a quick turnaround time in multiple convenient locations throughout North America."

Read the full report : https://www.BulletLiner.com

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Global Industrial Enzymes Market Analysis Report 2022-2029: Opportunities in the Growing Demand for an Alternative to Synthetic Chemicals

DUBLIN, Aug. 15, 2022 /PRNewswire/ -- The industrial enzymes market is expected to grow at a CAGR of 6.5% from 2022 to 2029 to reach $8.30 billion by 2029. This market is characterized by more diversified operations, which offer alternatives to fossil fuels and nutritional products mainly due to rising environmental concerns and consumer preference for foods.

The high growth of the industrial enzymes market is mainly attributed to the factors such as growing environmental concerns and rising demand for bioethanol; increase in R&D activities and investments in the enzymes sector; advancements in enzyme engineering & green chemistry, the introduction of genetically-engineered enzymes; and the need for cost reduction and resource optimization in production processes. However, stringent regulations and restricted temperature & pH levels of enzymes are expected to hinder the growth of this market to some extent.

Based on type, the industrial enzymes market is segmented into carbohydrases, proteases, lipases, and others. The proteases segment is expected to grow at the highest CAGR during the forecast period. The high growth is mainly attributed to its multiple applications in diverse industries considering the eco-friendly nature of proteases due to its non-toxic and non-pathogenic attributes and the feasibility of large production of protease enzymes in a short time.

Based on the source, the industrial enzymes market is segmented into microorganisms, animals, and plants. The microorganisms segment is expected to account for the largest share of the industrial enzymes market in 2022. Due to its high stability, cost-effectiveness, less time & space requirement, high consistency, and increasing demand in food & beverages, pharmaceutical, animal feed, and wastewater treatment industries are contributing to the largest share of this segment.

Based on form, the industrial enzymes market is segmented into solid and liquid. In 2022, the liquid form segment is expected to account for the larger share of the industrial enzymes market. The large share of this segment is mainly attributed to its high performance-stability in food processing, ease of use, less quantity requirement, and increasing demand in household care and food & feed industries.

Based on application, the industrial enzymes market is segmented into food & beverages, household care, animal feed, biofuel, and other applications. The food & beverages segment is expected to register the highest CAGR during the forecast period. The growth of this segment is mainly attributed to the growing awareness about nutritional requirements, increasing demand for processed food products, changing dietary habits, rising consumer desire for natural and customized food products, and increased application of enzymes in beverages. The food & beverage segment is further segmented into bakery; dairy; beverage; meat, fish and egg processing; grain and oilseed processing; and other food applications. In 2022, the bakery segment is expected to dominate the food & beverage enzymes market.

Europe is expected to register the highest CAGR during the forecast period of 2022-2029. The highest growth rate of this region is mainly attributed to the growing demand for biofuels, changing lifestyles & emerging trends of healthy food, increasing awareness of health & wellness, and stringent environmental norms curbing the use of chemicals.

Read the full report : https://www.researchandmarkets.com/r/509cw2

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Nouryon Granted US Patent for Breakthrough LumaTreat Tagged Polymers Used in Advanced Water Treatment

Nouryon has been granted a US Patent for its LumaTreat® tagged polymer products. US Patent No. 11,208,408 - "Method of Controlling Scale in Aqueous Systems" – covers LumaTreat® tagged polymer products and the fluorescent monomers used in their creation. In alignment with Nouryon's commitment to providing innovative and essential solutions for a sustainable future, LumaTreat® tagged polymers enable customers to measure available deposit-control agents in water treatment systems and reduce polymer and water usage during treatment, enhancing the environmental footprint of operations.

"LumaTreat® tagged polymers are a revolutionary chemistry solution for the global water management industry," said Joppe Smit, Vice President of Nouryon's Natural Resources business line. "We are proud to offer this patented, innovative technology to customers to help them solve scale and deposit issues in a multitude of industrial water treatment applications."

Many essential processes at production and manufacturing sites rely on the continuous operation of water treatment systems, cooling towers, and boilers. The accumulation of scale deposits degrades the overall efficiency and lifespan of these systems, potentially causing failures or shutdowns detrimental to operations in industrial facilities such as pharmaceutical production facilities, refineries, and hospitals.

LumaTreat® tagged polymers incorporate fluorescent monomers that "smart tag" the deposit-control polymers used in water treatment and prevent the build-up of calcium phosphate, calcium carbonate, and other minerals that produce scale deposits. These fluorescent tagged polymers enhance system troubleshooting for water treatment professionals through remote and accurate monitoring of polymer consumption, decreasing the risk of estimation errors. They can also be used in conjunction with or as an alternative to pyrenetetrasulfonic acid (PTSA) in water treatment formulations to indicate real-time consumption rates of the active polymer. A tagged polymer that enables more precise measurements can aid in reducing polymer dosage and water usage while remote monitoring can eliminate the need to travel to sites.

The patent, which the US Patent and Trademark Office granted to Nouryon on December 28, 2021, claims priority to International Application Number PCT/US2020/034709 that was published as WO 2020/243176. Additional Nouryon patent applications claiming priority to this patent family are currently pending in several jurisdictions. LumaTreat® tagged polymers have received regulatory approval in the US.

Source : Nouryon

ACS Laboratory Launches the Most Comprehensive National Hemp Compliance Testing Panel and Certificate of Analysis

BOCA RATON, Fla., Aug. 17, 2022 /PRNewswire/ -- Raising the standard for cannabis and hemp testing, ACS Laboratory, the largest hemp and cannabis testing facility in the eastern U.S., is pleased to announce the National Hemp Testing Panel – the most comprehensive national hemp testing panel in the industry

One year after the United States Department of Agriculture (USDA) issued its final rules on hemp, various states enacted their own regulatory programs.

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CELGARD ENTERS INTO STRATEGIC ALLIANCE AGREEMENT FOR HIGH-PERFORMANCE LITHIUM IRON PHOSPHATE (LFP) BATTERY SEPARATOR TECHNOLOGY WITH AMERICAN BATTERY FACTORY

Celgard, LLC (Celgard), a subsidiary of Polypore International, LP, (Polypore) is pleased to announce it has entered into a strategic alliance agreement with American Battery Factory (ABF). Celgard and ABF will undertake joint research projects to commercialize state-of-the-art next generation products for reliable high-technology prismatic lithium iron phosphate (LFP) batteries in the U.S.

Under the terms of the agreement, Celgard will supply 100% of ABF's separator needs for LFP battery cells in the U.S. Furthermore, Celgard and ABF will share resources to develop advanced technologies and next generation cells for LFP batteries. Additionally, they will explore opportunities to establish a robust domestic LFP ecosystem in the U.S. with improved access to precursor materials and expanded capacity that provides LFP to a broader customer base.

Asahi Kasei, Polypore's parent company, may further support the LFP supply chain through its widely diversified manufacturing base and ABF will evaluate component supply opportunities for items such as plastic battery packs and thermal retardant materials that could further benefit the LFP supply chain and industry.

"We are excited to work with ABF to develop and showcase Celgard next generation membrane separators and to advance lithium battery technology with LFP chemistry," said Lie Shi, Asahi Kasei global head of separator business development and executive vice president of Polypore. "LFP represents an important market and Celgard dry-process membrane separators offer a high-performance technology solution for this application."

Source : Asahi Kasei

BASF LAUNCHES THERMOPLASTIC POLYURETHANE PAINT PROTECTION FILM FROM RODIM® FOR IMPROVED CAR PAINT PROTECTION

- BASF offers long-term and solid quality assurance with its Thermoplastic Polyurethane Paint Protection Film
- Certified as official supplier of paint protection films for FAW-Volkswagen
- Now accepting online orders through the RODIM WeChat account and BASF's flagship store on Tmall

Shanghai, China – August 30, 2022 – RODIM®, a paint-related product brand of BASF, has launched its new invisible Thermoplastic Polyurethane (TPU) Paint Protection Film (PPF) in Asia Pacific. It provides multifaceted and long-lasting protection for automotive coatings.

Car owners can expect to benefit from extra protection with the RODIM TPU PPF. The product has been proven to offer superior resistance against nature's elements, such as high temperature and extended exposure to the sun during an accelerated UV test lasting 3,000 hours. RODIM TPU PPF can effectively protect vehicles from from tree sap, bugs, bird droppings, acid rain and more that can leave stains on the surface. Thanks

to the use of TPU, the film features excellent self-healing capbility when there are light scratches or scuffs. It is also highly resistant to yellowing. The material is optically transparent enabling automotive surfaces to be preserved flawlessly for an extended period of time.

"Due to the surging demand from our customers in China, BASF decided to make a new attempt by launching RODIM TPU PPF to broaden our prod-

uct range and better serve the aftermarket automotive industry," said Terry Su, Director, Business Management, Automotive Refinish Coatings Solutions Greater China, BASF who underlined the strategic significance of PPF to the company.

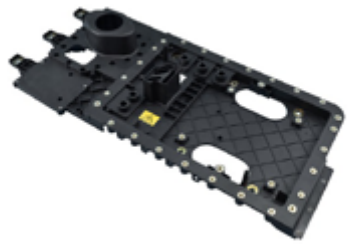
The product was officially certified by FAW-Volkswagen in May 2022. RODIM TPU PPF is now supplied to nearly 2,000 Audi and Volkswagen distributors throughout China, which has helped to elevate their brand image and improve end-user satisfaction.

RODIM TPU PPF is available in a variety of thicknesses, colors and finishes including gloss or matte. Customized versions are also available to meet personal preferences. Customers can search for "BASF RODIM Invisible PPF" on WeChat to send an inquiry or place orders. The product is also available on BASF's online flagship store on Tmall. For details, please visit https://basf.tmall.com.

Source : BASF

SABIC LAUNCHES NEW SHORT-GLASS FIBER-FILLED PP COMPOUNDS WITH ENHANCED PERFORMANCE FOR AUTOMOTIVE STRUCTURAL APPLICATIONS

SABIC, a global leader in the chemical industry, today introduced SABIC® PP compound G3430X and SABIC PP compound G3440X grades, two new short-glass fiber-reinforced polypropylene (PP) compounds offering enhanced performance and processing for demanding automotive under-hood, exterior and interior applications. The two advanced grades surpass high-performing standard short-glass fiber materials in melt flow, tensile and flexural strength, and flexural modulus. SABIC PP compound G3430X and G3440X grades give customers new opportunities to raise the performance bar for automotive structural components such as brackets, seat structures and center consoles. Furthermore, thanks to their thin-wall capability, both materials can be used to design parts with lower mass and weight.



"SABIC's world-class development capabilities and dedication to continuous portfolio improvement have yielded these two exceptional materials, which can empower automotive customers to significantly increase the performance of end applications," said Abdullah Al-Otaibi, general manager, ETP & Market Solutions, SABIC. "The launch of these new SABIC PP compounds is an excellent example of our proactive response to customers' emerging needs. We have set new industry benchmarks for robust performance and thin-wall capabilities in short glass fiber polypropylene, providing critical advantages in the face of escalating automotive requirements."

IMPROVED PERFORMANCE

SABIC PP compound G3430X grade, with 30 percent short glass fiber, and SABIC PP compound G3440X grade, with 40 percent, deliver superior physical properties vs. conventional short glass fiber PP materials and high melt flow for easy processing. Both grades deliver an excellent balance of stiffness and impact for optimal performance in structural parts, with SABIC PP compound G3440X providing a higher degree of stiffness and greater density than the SABIC PP compound G3430X grade. In addition to offering superior performance compared to other short glass fiber PP compounds, these materials may be candidates for the cost-effective replacement of long glass fiber PP in certain low-temperature applications. Combined with exceptional stiffness and very good impact properties, the high melt flow of these materials offers opportunities to design thin-wall components to reduce weight without compromising overall part performance.

Besides helping to improve overall performance of the vehicle, reducing weight may also contribute to cost savings through the use of less material. Furthermore, cost benefits can accrue from higher productivity associated with faster cycle times, which can be enabled by higher flow.

Both SABIC PP compounds are available in standard black and natural and can be custom colored.

Source : Sabic

LG ENERGY SOLUTION AND HONDA TO FORM JOINT VENTURE FOR EV BATTERY PRODUCTION IN THE U.S.

Seoul, Korea, August 29, 2022 – LG Energy Solution (LGES; KRX: 373220) and Honda Motor Co., Ltd. (NYSE:HMC) today announced an agreement to establish a joint venture (JV) company to produce lithium-ion batteries in the U.S. to power Honda and Acura EV models for the North American market.

With this agreement, LGES and Honda will invest a total of USD $4.4 billion and establish a new JV plant in the U.S. The plant aims to have an annual production capacity of approximately 40GWh.

The pouch-type batteries produced at the new JV plant will be supplied exclusively to Honda facilities in North America. While the location for the joint venture plant is yet to be finalized, based on Honda's plans for EV production in North America, the two companies aim to begin construction in early 2023, in order to enable the start of mass production of advanced lithium-ion battery cells by the end of 2025.

LGES and Honda made the decision to establish the joint venture battery plant in the U.S., based on the shared belief that expanding local electric vehicle production and ensuring the timely supply of batteries would put them in the best position to target the rapidly-growing North American EV market.

"Our joint venture with Honda, which has significant brand reputation, is yet another milestone in our mid- to long-term strategy of promoting electrification in the fast-growing North American market," said Youngsoo Kwon, CEO of LG Energy Solution. "Since our ultimate goal is to earn our valued customers' trust and respect, we aspire to position ourselves as a leading battery innovator, working with Honda in achieving its core initiatives for electrification, as well as providing sustainable energy solutions to discerning end consumers."

"Honda is working toward our target to realize carbon neutrality for all products and corporate activities the company is involved in by 2050," said Toshihiro Mibe, President, CEO and Representative Director of Honda Motor Co., Ltd. "Aligned with our longstanding commitment to build products close to the customer, Honda is committed to the local procurement of EV batteries which is a critical component of EVs. This initiative in the U.S. with LGES, the leading global battery manufacturer, will be part of such a Honda approach."

The joint venture is scheduled to be established in 2022. The closing is subject to customary closing conditions, including regulatory approvals.

Source : Honda

GLOBAL SOLID-STATE BATTERY MAKER PROLOGIUM TO ESTABLISH ITS FIRST OVERSEAS GIGAFACTORY

PARIS, Sept. 5, 2022 /PRNewswire/ -- ProLogium, a global leading manufacturer in next-generation solid-state batteries, has appointed Accuracy, the global independent financial and strategic consulting firm, to advise on the location of its first major Gigawatt-hour (GWh) battery factory in Europe and to work with its International Development team.

Investment in the new factory will total US$8bn over the next decade. The factory is expected to be one of Europe's biggest gigafactories, with a three-phase construction and ultimately an annual capacity target of 120 GWh when the third phase is completed.

Accuracy says the competition between European countries to secure ProLogium's factory has been intense. Both the construction and operation of the gigafactory are expected to generate substantial economic benefits for the chosen region, creating thousands of highly-skilled jobs both at the plant itself and within the supply chain. Many governments in Europe have started initiatives to support the growth of electric vehicle batteries, putting green technology at the heart of their long-term economic plans.

ProLogium is seeking its first overseas site for production of next-generation solid-state batteries in Europe or in USA in light of the exponential growth in demand for electric vehicles over the next decade. In Europe, the firm has initiated a feasibility study for potential sites including locations in France, Germany, the Netherlands, Poland and the United Kingdom (alphabetically).

Solid-state batteries are among the most promising and disruptive battery technologies, offering advantages in terms of safety, energy density, fast-charging capability, recyclability, weight optimisation and costs. Many European markets are making a strong commitment to the battery industry, with the aim of positioning themselves as gigafactory hubs.

"For most Asian companies actively going abroad, one of the keys to success is a solid foundation rooted in strategic planning." Mr. Vincent Yang, Chief Executive Officer and Chairman of ProLogium Technology said. "Site selection requires not only the right technology and solutions for that market, but also in-depth knowledge of local market demands and trends. That's why we've chosen Accuracy as our advisor for one of our most important milestones."

Accuracy says that its advice to ProLogium on selection of the site involves detailed analysis in two phases. Phase One looks at shortlisting over 90 sites across the 13 European markets, identified

based on a range of criteria including:

- the region's pool of skilled labour
- existing electric vehicle ecosystem and supply chain
- access to transport networks
- access to renewable energy sources
- energy security
- incentives available

In Phase Two, Accuracy undertakes a detailed financial analysis of each site selected through Phase One, including sensitivity analysis to understand impact to profitability for each site. One outcome of discussions with different European agencies is that many European markets have already allocated sites for gigafactories. This has resulted in competition taking place between states and regions to offer the most attractive site.

Zaheer Minhas, Partner at Accuracy leading the Infrastructure Advisory business in Asia and who is advising ProLogium, says: "It is no exaggeration to say that ProLogium's European production site will be transformative for the chosen region. Competition to secure the site is already fierce. That means the region ProLogium chooses will benefit from the creation of high quality, environmentally-friendly jobs for many years to come."

Gilles Normand, International Development EVP at ProLogium, who has already been touring all the potential sites in the shortlisted countries in Europe (France, Germany, Netherlands, Poland and UK) declares "I have been impressed by the pre-selection process developed by Accuracy. During my frontline visit to all potential sites, I discovered very talented people and highly motivated ones. I was pleased to see the enthusiasm and the understanding about our technology and future industrialization plans. For sure, choosing finally the selected site is going to be a hard process".

Frédéric Recordon, Partner at Accuracy who together with Zaheer is also advising ProLogium, adds: "The business is looking forward to making its final decision by the second quarter of 2023 at the earliest and breaking ground on the new facility after carrying out the proper investigation through due diligence."

ProLogium's first production line for consumer applications began operating in 2013, and its roll-to-roll EV battery pilot line began production in October 2017. The battery maker owns proprietary technologies covering over 500 (applied or awarded) patents worldwide and has established more than 4,000 quality control items in its production processes, achieving 99.9% yield for its single-layer cell manufacturing and 94% yield for multi-layer cells.

The company has already shipped more than one million cells for consumer electronic applications (from 15mAh to 1Ah) with a very high level of customer satisfaction. It has already begun testing and certification processes with key global car OEMs by delivering nearly 8,000 EV battery cells (50-60Ah). These results laid a solid foundation for its global gigafactory plan.

Source : PRNwewswire

LATTICE EXTENDS PRODUCT PORTFOLIO WITH INTRODUCTION OF CERTUSPRO-NX FPGAS OPTIMIZED FOR AUTOMOTIVE APPLICATIONS

Lattice Semiconductor , the low power programmable leader, today announced its optimization of the award-winning general purpose Lattice CertusPro™-NX FPGA family for Automotive and extended temperature applications. Expanding Lattice's growing portfolio of Automotive products, these new devices combine automotive-grade features and AEC-Q100 qualification with the best-in-class power efficiency, performance, and small form factor found in all Lattice CertusPro-NX FPGAs. And, with support for LPDDR4 external memory, they enable long term projected availability for applications like display processing and bridging for infotainment systems, in-vehicle networking, and camera processing / sensor bridging in advanced driver assistance systems (ADAS).

"CertusPro-NX FPGAs are designed to enable customer innovation in a wide range of applications from 5G, machine vision, Edge processing, and more. We are thrilled to bring their advanced capabilities to the Automotive segment to accelerate the development of the next generation of driver experiences," said Jay Aggarwal, Director of Product Marketing at Lattice Semiconductor. "With CertusPro-NX Automotive FPGAs, we are excited to deliver a leadership low power, high bandwidth, and high reliability platform for car manufacturers to develop exciting new mission-critical automotive systems."

"Designing reliable, high performing Automotive solutions is one of our core competencies and focus areas at Teledyne FLIR," said Michael Walters, Vice President of Product Management at Teledyne FLIR. "The latest automotive-grade FPGAs from Lattice Semiconductor enable us to further this mission by delivering highly reliable, low power infrared thermal imaging systems that make vehicles safer."

Source : Automotive Technology

BAYER LAUNCHES PILL TO TREAT CHRONIC KIDNEY DISEASE LINKED TO DIABETES

Bayer launched its drug finerenone to treat chronic kidney disease (CKD) associated with type-2 diabetes in India on Thursday. The drug, touted as a potential blockbuster drug for the German pharmaceutical firm, will be sold under the brand name Kerendia in India.

Bayer said it has followed a tiered pricing model for different countries and has priced the once a day pill at ₹97.50, making it up to 150% cheaper than the price in some of the developed countries. Kerendia has to be given over and above standard of care treatment for diabetes.

While Bayer will market Kerendia **alone at the moment, it is open to potential licensing deals with other partners to expand access, Bayer Zydus NSE -0.73 % Pharma managing director Manoj Saxena told ET in an interview. "There is huge unmet need for treating CKD patients with diabetes who end up with kidney failure, which then requires dialysis or renal transplant, resulting in huge burden for patients and their families in India," said Saxena. "Kerendia slows or prevents people from kidney failure."**

Source : Economic Times

ROCHE ANNOUNCES U.S. FDA APPROVAL OF XOFLUZA TO TREAT INFLUENZA IN

- Xofluza is the first and only single-dose oral medicine for the treatment of influenza to be approved in the US for children as young as five years of age
- The FDA also approved Xofluza to prevent influenza in children aged five years and older following contact with an infected person

Basel, 12 August 2022 - Roche (SIX: RO, ROG; OTCQX: RHHBY) today announced that the United States (U.S.) Food and Drug Administration (FDA) has approved a supplemental New Drug Application (sNDA) for Xofluza® (baloxavir marboxil) for the treatment of acute uncomplicated influenza in otherwise healthy children aged five to less than 12 years of age who have been symptomatic for no more than 48 hours. This marks the first single-dose oral influenza medicine approved in the US for children in this age group. Additionally, the FDA approved Xofluza for the prevention (post-exposure prophylaxis) of influenza in children aged five to less than 12 years of age following contact with someone with influenza.

"Despite the ongoing COVID-19 pandemic, influenza continues to be a threat to public health, and effective influenza antivirals remain critical to alleviating the burden on healthcare systems," said Levi Garraway, M.D., Ph.D., Roche's Chief Medical Officer and Head of Global Product Development. "Xofluza has proven to be an important tool in fighting and preventing influenza in adults as well as adolescents, and we are pleased to now offer households and younger children our single-dose oral treatment."

According to the U.S. Centers for Disease Control and Prevention, influenza can be a serious illness for young children.1 During the ongoing COVID-19 pandemic there have been significantly fewer influenza cases, likely due in large part to social distancing and mask wearing.2 However, in the US 2018-2019 influenza season, there were more than 6 million illnesses, thousands of hospitalisations and over 100 deaths among children aged five to 17 caused by influenza.3

"Historically, school-aged children have played a significant role in the community transmission of influenza. The annual influenza vaccine continues to be the most important first step to prevent illness in children, though there can still be breakthrough cases where antiviral treatment is needed," said Dr. Pedro Piedra, miniSTONE-2 Study Investigator and Professor of Molecular Virology, Microbiology and Pediatrics at Baylor College of Medicine. "Today's FDA approval provides children with a single-dose antiviral option, Xofluza, to treat influenza."

The FDA approval is based on results from two phase III studies: miniSTONE-2, which evaluated the use of Xofluza in children, and BLOCKSTONE, which evaluated Xofluza as a preventive treatment for household members, in both adults and children. The results from these studies were published in The Pediatric Infectious Disease Journal and The New England Journal of Medicine respectively.4,5

Xofluza is already FDA-approved to treat influenza in people 12 years of age and older who have had influenza symptoms for no more than 48 hours and who are otherwise healthy or at high risk of developing influenza-related complications. Xofluza is also approved to prevent influenza in people 12 years of age and older following contact with someone with influenza (known as

post-exposure prophylaxis). Xofluza is available as a one-dose, single-tablet.6

Source : Roche

FDA APPROVES ABBOTT'S NEW SPINAL CORD STIMULATION DEVICE; PROVIDES TAILORED RELIEF TO MULTIPLE PAIN AREAS AND ADDS MORE TREATMENT OPTIONS FOR EVOLVING PAIN CONDITIONS

- Abbott's new Proclaim™ Plus spinal cord stimulation (SCS) system offers the next generation of stimulation therapy, giving physicians the ability to treat multi-site and evolving pain
- The system builds on the company's proprietary therapy, BurstDR™ stimulation, that works by mimicking natural patterns found in the brain1 to deliver superior pain relief2,3 and is preferred to traditional "tingling" tonic stimulation by 87% of patients4
- The Proclaim Plus SCS System can be used in conjunction with Abbott's NeuroSphere™ Virtual Clinic, which allows people to connect with their doctor and receive remote programming adjustments from the comfort of their home*

ABBOTT PARK, Ill., Aug. 23, 2022 /PRNewswire/ -- Abbott (NYSE: ABT) today announced that the U.S. Food and Drug Administration (FDA) has approved its new Proclaim™ Plus spinal cord stimulation (SCS) system featuring FlexBurst360™ therapy. The next generation of Abbott's proprietary BurstDR™ stimulation, FlexBurst360 therapy offers pain coverage across up to six areas of the trunk and/or limbs and enables programming that can be adjusted as a person's therapeutic needs evolve. Designed to fit within a person's life, the Proclaim Plus SCS system is recharge-free with a battery that can last up to 10 years.^ It can be used with Abbott's NeuroSphere™ Virtual Clinic connected care technology, which allows a person to both communicate with a physician through secure in-app video chat and remotely receive stimulation settings in real time regardless of location.*

More than 50 million people in the U.S. suffer from chronic pain5 and 88% of those have pain in at least two or more different areas of their body.6 SCS therapy, also known as neurostimulation, is an implanted device that sends mild electrical pulses to the nerves along the spinal cord, changing the way the body perceives pain signals, which can relieve chronic pain and improve quality of life. According to the U.S. Pain Foundation, chronic pain is the leading cause of people going to the doctor and costs the nation approximately $635 billion each year in healthcare, disability and lost productivity costs.7 "Spinal cord stimulation has provided tremendous relief for patients suffering from chronic pain. With its ability to mimic natural patterns found in the brain, the Abbott BurstDR platform has been a game-changer in this space, helping to not only improve a patient's ability to perform everyday activities but also relieve the emotional suffering§ that pain can cause," said Steven Falowski, M.D., Argires Marotti Neurosurgical Associates of Lancaster, Lancaster, Pa. "However, despite the many benefits of BurstDR, such as being effective as a low-energy stimulation therapy, some patients continue to be burdened by pain because of multiple painful areas and evolving pain over time. Now, with Proclaim Plus and FlexBurst360, an already established platform has been improved to treat more patients who suffer from pain across different body parts and changing pain over time."

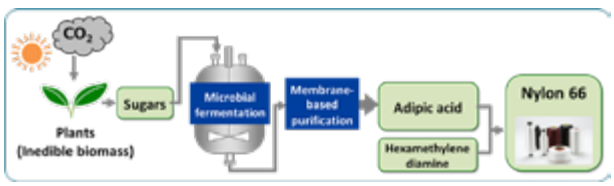
BurstDR therapy is Abbott's exclusive stimulation technology that delivers pulses – or bursts – of mild electrical energy to alter pain signals as they travel from the spinal cord to the brain. Clinical studies have shown that BurstDR technology delivers superior pain relief as compared to tonic stimulation3, improves people's day-to-day life, and reduces the emotional suffering§ associated with pain.4 When compared to standard tonic stimulation technology, which provides a constant tingling sensation felt by the patient, 87% of people preferred BurstDR technology, which provides pain relief in a sub-sensory range not felt by the patient.4

Using FlexBurst360 therapy on the Proclaim Plus system, physicians can identify the lowest effective dose of stimulation for each patient and adapt it based on evolving pain needs. The system allows doctors control over multiple independent BurstDR stimulation areas to provide broader pain coverage without overstimulation risk.8 The Proclaim Plus system with FlexBurst360 therapy is designed to fit seamlessly within a person's life and therapy settings can be accessed using either a personal mobile device** or through an Abbott-provided mobile device. Patients can use the same device to access Abbott's proprietary NeuroSphere Virtual Clinic, a first-of-its-kind neurostimulation technology9 in the U.S. that allows patients to communicate with physicians, ensure proper functionality of their device, and receive remote adjustments to their therapeutic settings as needed. "At Abbott, we are deeply committed to advancing the field of neurostimulation, thus helping people address the challenges they face while managing their chronic pain," said Pedro Malha, vice president, neuromodulation, Abbott. "Our latest development, Proclaim Plus with FlexBurst360 therapy, is yet another testament of that commitment."

Source : abbott

TORAY INVENTS 100% BIO-BASED ADIPIC ACID FROM SUGARS DERIVED FROM INEDIBLE BIOMASS, SCALING UP FOR APPLICATION TO ECO-FRIENDLY NYLON 66

Tokyo, Japan, August 24, 2022 – Toray Industries, Inc., announced today that it has developed the world's first 100% bio-based adipic acid, a raw material for nylon 66 (polyamide 66), from sugars derived from inedible biomass. This achievement came from using a proprietary synthesis technique combining the company's microbial fermentation technology and chemical purification technology that harnesses separation membranes.



The company has started to scale up its capabilities in this area. It will test polymerization of nylon 66, develop production technology, conduct market research, and take steps to commercialize applications for this bio-based adipic acid by around 2030.

Nylon 66 has been used for many years in fibers, resins, and other applications due to its exceptionally durable, strong, and rigid properties. Pressures to develop eco-friendly nylon 66 have risen in recent years amid a growing awareness of the need to realize a sustainable society. One challenge is that conventional chemical synthesis for producing adipic acid, the raw material of nylon 66, generates a greenhouse gas called dinitrogen monoxide.

Toray was the first in the world to discover microorganisms that produce an adipic acid intermediate from sugars. The company reconfigured metabolic pathways within microorganisms to enhance production efficiency by applying genetic engineering technology, which artificially recombines genes to streamline synthesis in microorganisms. It also employed bioinformatics technologies to design optimal microbial fermentation pathways for synthesis. Quantity of the intermediate synthesized by microorganisms has increased more than 1,000-fold since the initial discovery, and the efficiency of synthesis has improved dramatically.

Toray is using reverse osmosis separation membranes to concentrate the intermediate in the purification process. This approach is more energy efficient than other methods that do not use these membranes. This bio-adipic acid production technique is free of dinitrogen monoxide emissions, unlike the manufacturing processes for petroleum-derived adipic acid, and is expected to help combat global warming.

Source : Toray

JOINT NEWS RELEASE: BASF AND SULZER CHEMTECH SIGN MEMORANDUM OF UNDERSTANDING TO COLLABORATE IN SUSTAINABLE TECHNOLOGIES

BASF and Sulzer Chemtech (GTC Technology) have signed a Memorandum of Understanding (MoU) with the goal of advancing technologies for renewable fuels and chemically recycled plastics that will further expand the partners' portfolio of sustainable solutions. The companies agreed to enter a strategic partnership to reduce the carbon intensity of renewable diesel and aviation fuel. They will also drive the development of innovative, cost-effective chemical processing solutions to improve the conversion of plastic waste into new plastics. The collaboration combines complementary areas of expertise, integrating Sulzer Chemtech's capabilities in licensed processing technologies and mass transfer equipment with BASF's cutting-edge high-performance adsorbents and catalysts.

Sulzer Chemtech, an established licensor for process technologies for renewable fuels and chemical recycling of plastics, is leading efforts to harness resources that can help global producers achieve their net-zero ambitions. BASF Process Catalysts is driving multiple initiatives aimed at turning plastic waste into a secondary raw material, for example with its newly developed PuriCycle® portfolio, as well as providing adsorbent and catalytic materials to produce clean and renewable fuels.

"Global plastic pollution and mobility are challenges that we can help to solve by joining forces with partners", said Detlef Ruff, Senior Vice President, Process Catalysts at BASF. "This is why we at BASF are involved in key strategic collaborations aimed at protecting our planet's resources and transforming the way we do business. We are excited to work with Sulzer Chemtech and use our combined strengths to address plastic pollution and drive the adoption of more sustainable fuels."

Torsten Wintergerste, President at Sulzer Chemtech, concludes: "Our process technology development team is continuously looking at new ways to support more sustainable, circular practices. The MoU with BASF allows us to broaden the scope of our portfolio and will lead to improved value offerings in both renewable fuels and the plastics recycling value chain. We look forward to working together to deliver advanced technologies that help our customers accelerate their path to net zero carbon emissions."

Source : Webwire

SUMITOMO CHEMICAL TO BUILD A NEW HIGH-PURITY SEMICONDUCTOR PROCESS CHEMICAL MANUFACTURING PLANT IN THE U.S.ACCELERATING SEMICONDUCTOR MATERIALS BUSINESS DEVELOPMENT IN THE U.S. MARKET

Sumitomo Chemical has decided to establish a new company in Texas in the U.S. through Dongwoo Fine-Chem Co., Ltd., a wholly-owned subsidiary located in South Korea, and to build at the company a high-purity semiconductor process chemical manufacturing plant. The new company, Sumika Semiconductor Materials Texas Inc., will serve as a strategic base in the U.S. market for the Sumitomo Chemical Group's semiconductor process chemicals business and work to expand this business in the U.S. by effectively capturing robust demand. The new plant is due to commence operations in fiscal 2024.

Sumitomo Chemical started production of high-purity chemicals used for precision cleaning in the semiconductor manufacturing process in 1978 at its Chiba Works in Japan, and since then has built its supply systems in Asian countries to meet customer demand. The Company has been highly rated by semiconductor manufacturers in and outside Japan for the technological strengths it has demonstrated by leveraging its ultra-high purification technology that reduces impurities down to a parts-per-trillion level and its quality assurance system based on micro-impurity analysis technology, as well as for its agility in increasing supply capacity in response to market demand.

Growth in demand for semiconductors is expected to continue, driven by market uptake of 5G-compatible devices and progress in the development of advanced technologies, such as AI and autonomous driving. Against this backdrop, governments of various countries have launched industrial policies to enhance semiconductor production capacity, and in the U.S., major semiconductor manufacturers have, one after another, announced plans to build new semiconductor plants. To effectively capture this strong U.S. demand for semiconductor materials, Sumitomo Chemical has decided to construct the new high-purity semiconductor process chemical plant. The Company has a subsidiary in Arizona, the U.S., Sumitomo Chemical Advanced Technologies LLC, through which it operates a compound semiconductor materials business. With this new plant coming into operation, the Sumitomo Chemical Group will have its bases in both Texas and Arizona, the two states where the U.S. semiconductor industry is concentrated, and will further accelerate the development of its semiconductor materials business in the U.S.

Sumitomo Chemical has identified contribution to ICT innovation as one of the material issues to be addressed as management priorities. The Company will strive to contribute to the growth of the semiconductor industry, which is indispensable for achieving a smart society and smart mobility, by expanding its global production capacity for semiconductor process chemicals and providing a stable supply of high-quality products.

Source : Sumitomo Chemical

A NEW POLYAMIDE 66 FIBER WITH A LEGACY OF INNOVATION

DOMO Chemicals is a key polyamide player equipped with one of the world's most modern polymerization lines for staple fiber. The company is committed to achieving performance breakthroughs in polyamide 66 fibers. This is clearly shown by its new NYLEO® line of polyamide 66 value-added solutions. These include innovative products for flame retardancy, biodegradability and inhibiting bacteria. The new brand name for DOMO's Performance Fibers product line, NYLEO® represents the strong synergy of our rich heritage in the polyamide 66-based fiber market and an intense focus on innovation. Thanks to its unique properties, this pioneering fiber can be used in numerous applications in the textile, flooring, automotive and industrial markets. These offer consumers state-of-the-art solutions to meet their demanding requirements when it comes to health, safety and sustainability. NYLEO® PROTECT fibers offer improved flame retardancy, NYLEO® 4EARTH® fibers provide enhanced biodegradability, and NYLEO® SAFE fibers feature bacteriostatic properties. The NYLEO® value proposition represents a new milestone in DOMO's enhanced offering of sustainable solutions.

A new standard for polyamide 66 fibers

Based at our Valence site in France, our DOMO Performance Fibers teams work passionately to create unique fibers designed to meet key market needs. We have been producing world-class polyamide 66 fibers since 1955 for such industries as nonwovens for polishing, surface treatment, tennis balls and aerospace, worsted and semi-worsted for flooring, flocked fabric for upholstery, automotive interiors, packaging, and many other consumer products. The NYLEO® brand now represents the full range of polyamide 66 products, including staple fibers, crimped tow and tow for flock. These are well known for their superior resilience, outstanding abrasion resistance, higher tenacity, good dyeability and color fastness, consistent quality, and soft touch. NYLEO® now also means cutting-edge innovation with our new line of polyamide 66 fibers.

NYLEO® PROTECT for flame retardancy

With the aim to contribute to higher levels of safety in the clothing, furniture and transportation sectors, DOMO has developed a new flame retardant polyamide 66 fiber. NYLEO® PROTECT combines all the advantages of polyamide 66, such as mechanical properties, comfort, low specific weight and outstanding abrasion resistance, with better flame retardancy. The limiting oxygen index (LOI) of NYLEO® PROTECT has been improved up to 28 percent, which is the level of typical flame retardant fibers. Thanks to its unique properties, NYLEO® PROTECT offers a wide range of qualities to enhance product performance, including the workwear segment. Our global customers rely on DOMO's performance fibers because they are particularly resistant and resilient, including for under and outer garments for firefighters, military, construction and trades functions.

Our fiber is antimony-, halogen- and bromide-free and is OEKOTEX® certified. NYLEO® PROTECT is available in? a broad range of solutions, including staple fibers (from 1 to 30 Dtex?; cut length from 38 to 155 mm), tow for flock or short cut fibers (from 1 to 30 Dtex?) and crimped tow (from 2.2 to 6.7 Dtex?). NYLEO® PROTECT has an outstanding density of 1.14 g/cm3. In comparison to polyester FR, Modacrylic, Viscose FR, Meta-aramid, cotton FR or wool, NYLEO® PROTECT polyamide 66 displays a higher tenacity, enhanced mechanical properties and excellent abrasion resistance.

NYLEO® 4EARTH® for better biodegradation

More and more manufacturers are concerned about sustainability and the circular economy, and seek to reduce their impact on the environment through better waste management, among other actions. This applies to the textile industry as well, since the pollution it generates has a significant impact on the planet and the textile value chain is a major contributor to landfills, where most clothing ends its life. To be more sustainable, manufacturers will need to redesign production to make it easier to manage the end-of-life of products and waste. For this reason, DOMO has developed this new fiber, which demonstrates enhanced biodegradation when landfilled.

While a traditional polyamide 66 fiber decomposes in about 50-100 years, NYLEO® 4EARTH® with enhanced biodegradability decomposes within only five years. Its unique composition allows bacteria to gain access to and digest the waste materials, thus accelerating the biodegradation process. Like other biodegradable products, once?landfilled, NYLEO® 4EARTH® polyamide 66?fiber with enhanced biodegradability breaks?down into organic matter (biomass) and?biogas (methane). Within five years, more than 90 percent of the fiber is?converted into biogas, with the remainder as biomass residues.? Moreover, in well controlled landfills,?methane is not?released directly into the atmosphere, but burned or reused for power?generation.

By offering enhanced biodegradability to safeguard the environment while maintaining all the standard characteristics of polyamide 66, including durability, long life, high tenacity, soft touch, and abrasion resistance, NYLEO® 4EARTH is the optimal solution for sustainable fiber applications.

NYLEO® SAFE for bacteria inhibition

With bacteria propagation becoming a health concern of increasing urgency, DOMO has developed NYLEO® SAFE fiber to fight this problem. A bacteriostatic agent is introduced into the polymeric matrix, creating a long-lasting effect to protect the fibers and inhibit the growth of bacteria, while maintaining all the standard characteristics of polyamide 66 fibers like comfort, mechanical resistance and durability. NYLEO® SAFE features a powerful and compliant solution of silver-based ions. Silver is widely used for human contact applications and is known to be effective against a broad spectrum of microorganisms that cause odor, discoloration, biofouling and other aesthetic problems Thanks to this technology, we can better control the level of bioactivity? and the bacteriostatic properties, which are resistant to washing as the agent cannot wash out. NYLEO® SAFE provides a proven, long-lasting effect even after 100 washing cycles, and a significant effect with a 20 percent blend of NYLEO® SAFE fiber with other non-treated fibers.

According to laboratory tests under the best standards, over 99.99 percent of bacteria are inhibited on pure polyamide 66 fabrics with bacteriostatic fiber after 24 hours of contact with bacteria like staphylococcus aureus or klebsiella pneumoniae.

Caring is our formula

DOMO Chemicals is a leading engineering materials company and highly integrated solution provider committed to the sustainable future of polyamides. Caring is our formula to create value – for our customers and consumers, for our teams and our people, for our shareholders as well as for the wider society and communities in which we operate. The NYLEO® brand represents an important step in our quest to strengthen DOMO's polyamide-based performance fibers business. It's also a key milestone in our sustainability journey, as we endeavor to support our customers through our enhanced offering of sustainable solutions.

Source : World of Chemicals

TORAY LAUNCHES TORAYPEARL™PA6 POLYMER DELIVERING EXCEPTIONAL 3D PRINTING STRENGTH, THERMAL RESISTANCE, AND QUALITY

Tokyo, Japan, August 23, 2022 – Toray Industries, Inc., announced today that it has completed a mass production system and initiated sales of Toraypearl™PA6. This truly spherical polyamide 6 particle offers outstanding high strength, heat resistance, and surface smoothness for powder bed fusion 3D printers (see note 1). The production facility for this offering should be fully operational by the fiscal year ending March 2026, and further expanding this business and lifting capacity will be insighted. Powder bed fusion 3D printers use metal or resin particles and offer the 3Dprinted parts with excellent dimensional accuracy and efficiency. Metals are for applications requiring exceptional strength. Polymers are commonly for industrial applications because of lightness and affordable costs. However, polymer particles containing mainly used polyamide 12 and others are irregular shapes. Printed surfaces thus require polishing and other post-processing to use them in prototypes or end-use parts, increasing costs and lead times being the issue.

This situation prompted Toray to apply its proprietary polyamide particle technology to polyamide 6, which has a high melting point and good mechanical properties. This effort led it to create Toraypearl™PA6, the first product in the world with true spherical polyamide 6 particles. This offering caters to customer demand for printed parts with smoother surfaces (see note 3), greater strength and heat resistance under tougher conditions. The outstanding performance characteristics of Toraypearl™PA6 enable 3D printing of complex and precise shapes as well as smooth surface, this can reduce the need for polishing and other post-processing stages.

Furthermore, spherical particles ensure the fluidity needed for 3D printing, even when blended with reinforcing glass fibers, for modeling that combines excellent rigidity with the attributes mentioned above. Toray will leverage these features in initially proposing prototypes for automotive parts, power tools, and other equipment requiring a lot of strength, heat resistance, and precision. It ultimately looks to expand into the 3D printer market for end-use parts.

Tokyo-based 3D printer company Aspect Inc. has already obtained conformity certification for Toraypearl™PA6 for its AM-E3 300HT and 550HT additive manufacturing printers. This new product will augment Toraymill™PPS, a polyphenylene sulfide resin milled powder launched in 2017, as part of Toray's drive to expand its lineup of resin materials for 3D printers. Toray will also provide new value in the growing 3D printer field by applying its proprietary particle and particle size control technologies with Toray-developed polyamides.

Source : Toray

SYZYGY ENTERS JOINT DEVELOPMENT AGREEMENT WITH LOTTE CHEMICAL, LOTTE FINE CHEMICAL AND SUMITOMO CORPORATION OF AMERICAS TO DELIVER FULLY ELECTRIC CHEMICAL REACTOR TECHNOLOGY IN THE RACE TO PRODUCE CLEAN HYDROGEN

HOUSTON, Aug. 24, 2022 / PRNewswire/ -- Syzygy Plasmonics, LOTTE Chemical and LOTTE Fine Chemical (LOTTE Chemical HQ), and Sumitomo Corporation of Americas (SCOA) announced a joint development agreement today to test a fully electric chemical reactor for clean hydrogen production. The reactor will be installed and brought online in the second half of 2023 at LOTTE Chemical HQ facilities in Ulsan, South Korea. The agreement is a clear identifier of LOTTE Chemical HQ and SCOA as early adopters of disruptive technology and reinforces their position as leading the effort to decarbonize Korea.

With the announcement of their 2030 Vision in May 2022, LOTTE Chemical HQ defined clear pathways and directives for leading decarbonization efforts while simultaneously achieving record revenue growth. Among other climate-focused goals, the company is setting the stage to advance the hydrogen economy in Korea. Plans include importing green ammonia that can be readily transported and stored before it is converted into clean hydrogen with expectations of generating 1.2 million tons of hydrogen per year domestically by 2030.

The traditional thermal "cracking" of ammonia uses high heat and pressure to convert it to hydrogen gas. The heat required to drive this process is achieved by burning fossil fuels, making ammonia cracking extremely carbon intensive. Using fully electric reactors gives hydrogen producers a way to reduce or eliminate their reliance on combustion as the energy source for processing ammonia.

SCOA first invested in Syzygy in 2019 and since that time, the companies have worked together to deploy its cutting-edge technologies. A pioneer in industrial decarbonization, Syzygy has developed platform reactor technology that uses light from ultra-high-efficiency LEDs to power chemical reactions by removing the need for heat from burning fuel, which is how traditional carbon intensive chemical reactors are powered. Syzygy's process offers a new way to electrify chemical manufacturing and eliminate emissions associated with powering chemical processes. The company has demonstrated through extensive lab and pre-commercial-scale testing its ability to efficiently split ammonia and produce hydrogen gas without combustion. Development results show the technology will not only reduce the carbon footprint of hydrogen production, but it will also help reduce costs. The LOTTE Chemical HQ installation marks the first time the technology will be deployed at a commercial scale.

"Simply improving existing tech isn't enough to reach the world's decarbonization goals. Stopping climate change will require industries to reimagine what is possible," said Syzygy CEO Trevor Best. "Our technology expands the accepted paradigms of chemical engineering. We have demonstrated the ability to replace heat from combustion with renewable electricity in the manufacture of foundational chemicals like hydrogen. Today LOTTE Chemical HQ, SCOA, and Sumitomo Corporation Korea are taking a profound step forward, demonstrating through actions their commitment to help decarbonize Korea. Syzygy is honored to be a part of their forward-thinking efforts in fighting climate change."

The three companies announced the joint development agreement at a ceremony at LOTTE World Tower in Seoul, Korea on August 24, 2022.

"Partnering with best-in-class companies like Syzygy and LOTTE Chemical HQ is one of the important steps we are taking to make good on our commitment to achieve carbon neutrality by 2050, and lead the decarbonization of society," said Shinichi Hasegawa, General Manager of Energy Innovation Initiative of Americas at Sumitomo Corporation of Americas. "We are proud to engage in scaling up the groundbreaking technology Syzygy has developed, and we are confident its application with LOTTE Chemical HQ will yield successful results."

Source : PRNewswire

SHELL AND OHMIUM ANNOUNCE COLLABORATION ON GREEN HYDROGEN ENERGY SOLUTIONS

FREMONT, Calif. and BANGALORE, India, Aug. 24, 2022 /PRNewswire/ -- Ohmium International, a green hydrogen company that designs, manufactures, and deploys PEM Electrolyzers, is collaborating with Shell India* to evaluate hydrogen applications, markets, and project opportunities in India and globally. As part of the collaboration, both parties have intent to launch joint working groups to assess opportunities from the technical, commercial, and safety perspectives.

Ohmium's unique interlocking modular PEM electrolyzers provide a safer, modular, flexible, easy to install and maintain alternative to customized electrolyzers. The collaboration is positioned at further elevating Shell's ambition to help build a global hydrogen economy by developing the most competitive opportunities in the production, storage, transport, and delivery of hydrogen to end customers.

"We have set an ambitious goal of becoming a net-zero emissions business by 2050 with a target to reduce absolute emissions by 50% by 2030. Green hydrogen has a critical role in helping the world reach zero emissions. We plan to develop integrated hydrogen hubs to serve the industry and heavy-duty transport to be a leading player in this space. This MoU with Ohmium is a step in our journey. We would like to work with Ohmium to make this a productive collaboration which would help us make our Hydrogen projects most competitive. We are keen to explore all opportunities to work with all our contract partners to continuously drive competitiveness in our projects.", said Nitin Prasad, Chairman, Shell Group of Companies in India

"We're thrilled to collaborate with Shell to explore green hydrogen opportunities and solutions worldwide. Shell has demonstrated tremendous ambition to become a net zero carbon business by 2050– we believe that green hydrogen is a critical component of that transition," said Arne Ballantine, CEO of Ohmium International. "We look forward to working with Shell to explore all the opportunities our electrolyzers enable."

Source : PRNewswire

SIEMENS ENERGY AND DUKE ENERGY'S GAS POWER PLANT ACHIEVES GUINNESS WORLD RECORDS™ TITLE

- **Siemens Energy and Duke Energy have achieved the GUINNESS WORLD RECORDS title for the "most powerful simple cycle gas power plant"**
- **Siemens Energy's SGT6-9000HL turbine at Duke Energy's Lincoln Combustion Turbine Station in North Carolina achieved an output of 410.9 megawatts**
- **Highly efficient and flexible gas turbine technology supports the expanding use of renewables**

CHARLOTTE, N.C., Aug. 23, 2022 / PRNewswire/ -- Duke Energy's Lincoln Combustion Turbine Station, powered by Siemens Energy's SGT6-9000HL (60Hz) turbine, has been certified with the official Guinness World Records title for the "most powerful simple-cycle gas power plant" with an output of 410.9 megawatts.

As part of an innovative agreement, Siemens Energy installed and is currently testing its SGT6-9000HL turbine at Duke Energy's Lincoln Combustion Turbine Station near Denver, N.C., about 25 miles north of Charlotte, N.C. The new unit can generate enough energy to power more than 300,000 homes. Siemens Energy's SGT6-9000HL is designed to run longer between maintenance cycles and will be the most efficient of its type in Duke Energy's fleet (about 34% more efficient than the existing combustion turbines at the Lincoln site). "Power output, efficiency and operational flexibility are crucial elements for the decarbonization of the energy sector," says Karim Amin, executive board member at Siemens Energy. "This GUINNESS WORLD RECORDS title demonstrates our capability as a technology leader working together with Duke Energy to accelerate the path towards net-zero emissions."

"Duke Energy is pursuing an aggressive clean energy transition, already achieving more than 40% carbon reduction since 2005," said Kevin Murray, vice president of Project Management & Construction at Duke Energy. "The new gas turbine at our Lincoln site will become the most fuel-efficient gas turbine in our fleet. The unit's fast start and high ramp rate capability will support the increase in renewables we are placing on our system while complementing our journey to net-zero carbon from electricity generation by 2050." The power output of the unit is complemented by its agility. When renewables like solar or wind fluctuate, power from the HL-class turbine can quickly be added to the grid to meet market demands and help stabilize the power supply. The equipment that achieved the GUINNESS WORLD RECORDS title was delivered to the Lincoln site in November of 2019 and was started for the first time in April 2020. It is the first 60Hz HL-class turbine from Siemens Energy.

Source : PRNewswire

BASF AND NIPPON PAINT CHINA JOINTLY LAUNCH INNOVATIVE INDUSTRIAL ECO-PACKAGING IN CHINA

- **Pioneering application of water based Joncryl® HPB dispersions in construction materials packaging, making "Paper Replacing Plastics" a reality in industrial packaging**
- **Reduction of thousands of tons of plastics and enabling the reuse of nearly 10,000 tons of paper bags each year**
- **Building a sustainable and green value chain in China's industrial packaging market**

Shanghai, China – August 19, 2022 – BASF and Nippon Paint China, the leading coatings manufacturer, jointly launched an eco-friendly industrial packaging, which has been adopted by the Nippon Paint dry-mixed mortar series products. With BASF's water-based acrylic dispersion Joncryl® High-Performance Barrier (HPB) as the barrier material, the new packaging material is commercialized for the construction dry mortar products of Nippon Paint. It is the first time BASF's water-based barrier coatings will be used in industrial packaging in China.

With excellent vapor and water resistance properties, Joncryl® HPB, can replace plastics used in traditional packaging and significantly improve the recyclability of paper-based packaging, achieving innovative application of "Paper Replacing Plastics" in industrial packaging.

Its use in Nippon Paint dry-mixed mortar series products is expected to save thousands of tons of plastics and reuse nearly 10,000 tons of paper bags each year, helping to save forests, land, water, electricity, and other resources, reduce carbon emissions and achieve a circular economy and sustainable development of the packaging industry.

"Sustainability and innovation have always been our core strategies," said Carol Jiang, Business Management Director, Resins for Printing & Packaging, BASF in Asia Pacific. "At BASF, we are committed to providing sustainable solutions to our customers to help them reduce carbon footprint, utilize resources efficiently, and help the industry fulfill its sustainability commitments. This cooperation with Nippon Paint is another innovation in the industrial packaging segment, marking our joint effort in leading the industry development, promoting a circular economy, and creating a better life."

Kevin By, President of Procurement Headquarters, Nippon Paint China, commented, "Sustainability is an important strategy that Nippon Paint has been adhering to for years. The cooperation with BASF is a step forward on the path of green development. Nippon Paint will continuously be a green 'activist,' connecting upstream and downstream partners across the industry chain to build a green ecology through the eco-upgrade of product packaging and lead the new trend of sustainable packaging to green development a core competency."

Nippon Paint, an affiliated company of NIPSEA Group, entered the China market in 1992, which committed to being a market leader with integrated coating solutions. Nippon Paint China is a key player in the paints and coating industries, including decorative coatings, industrial coatings, automotive coatings, marine coatings, waterproofing & tiling materials, protective coating, coil coating, powder coatings, auxiliary materials, and other fields. For more information about Nippon Paint China, please visit www.nipponpaint.com.cn

Source : BASF

LG CHEM, ADM COMPLETE AGREEMENT FOR 'ECO-FRIENDLY BIO PLASTIC' JOINT VENTURES IN ILLINOIS, USA

LG Chem announced on the 16th at the LG Chem Magok R&D Campus in Gangseo-gu, Seoul that it held the 'Celebrating the Launch of LA (lactic acid) and PLA (poly lactic acid) Ventures' with ADM. ADM (Archer Daniels Midland), a global leader in nutrition and sustainable products and solutions, has a global agricultural supply chain and processing technology, and LG Chem has cooperated in developing plant-based bio materials. This agreement is the main contract following the conclusion of the Heads of Agreement (HOA) signed by the two companies in September of last year.

The two companies will establish two joint ventures to respond to the demand for plant-based products and bioplastics. The LA production corporation 'GreenWise Lactic' will be in charge of the raw materials to produce 150,000 tons of high-purity corn-based lactic acid annually. The second joint venture, 'LG Chem Illinois Biochem,' will use GreenWise Lactic's lactic acid to pro-

duce 75,000 tons of bioplastics annually. If LG Chem Illinois Biochem makes 500ml eco-friendly water bottles with bioplastics from the factory, it can produce about 2.5 billion bottles. The production facility will be built in Decatur, Illinois, U.S., with the aim of completing it in late 2025 or early 2026. Construction is scheduled to begin in 2023, when the final decision of the boards of both companies are completed.

LG Chem is the first Korean company to build a PLA plant with integrated production capacities ranging from raw materials to the final product. With the establishment of these JVs, LG Chem will not only procure production capacities for highly pure lactic acid needed for commercial-scale PLA production, but will also be able to apply bio-materials in the development of various high value-added bio-materials.

PLA is a representative biodegradable bioplastic made with lactic acid produced by fermenting corn, and is mainly used in food containers, straws, water bottles, tableware, and tea bags that are harmless to the human body. PLA is naturally decomposed within a few months by microorganisms when certain conditions are met. It also emits only a quarter of greenhouse gases during the production process compared to general plastics, and is thus drawing attention as a sustainable eco-friendly material. Global demand for bioplastics is projected to grow from USD 10.7 billion in 2021 to USD 29.7 billion by 2026, representing annual growth of 22.7%.

ADM CEO Juan R. Luciano stated, "Sustainability is one of the enduring global trends that is powering ADM's strategy and growth." and added, "We're pleased to expand our collaboration with LG Chem, and we're planning to take the next growth step, greatly expanding our ability to meet growing demand for plant-based solutions."

LG Chem Chief Executive Officer Hak Cheol Shin commented, "The establishment of this joint venture is a sustainable growth strategy that can directly contribute in solving environmental issues such as climate change and waste plastics," and added, "Based on eco-friendly materials, which is an axis for new growth engines, we will respond to the rapidly changing market and customers, while becoming a market leader."

Source : LG Chem

THYSSENKRUPP UHDE TO BUILD WORLD-SCALE BLUE AMMONIA PLANT IN QATAR

Thyssenkrupp Uhde has won a new contract from its long-standing customer and QatarEnergy's affiliate, Qatar Fertiliser Company (QAFCO), for the engineering, procurement, construction and commissioning of a world-scale ammonia plant, capable of producing its full output as Blue Ammonia. The contract was signed on August 31, 2022, and the plant is planned to be completed by the first quarter of 2026. The project is realized in a consortium with Consolidated Contractors Company (CCC), a leading construction company in the Middle East. Thanks to the uhde ammonia technology, the single-train plant will have a record capacity of 3,500 metric tons/day. This further enhances thyssenkrupp Uhde's strong position in the mega-scale market.

Martina Merz, CEO thyssenkrupp AG: "thyssenkrupp has a long-standing business relationship with Qatar, and we are delighted to sign this contract today. With our proven technology and innovation expertise we are laying the foundation towards sustainable solutions jointly with our customers."

Dr. Cord Landsmann, CEO thyssenkrupp Uhde: "The ongoing trust of our esteemed customer clearly shows that we can deliver solutions for the rising demand in clean ammonia, be it blue or green, be it as fertilizer or as transport medium for hydrogen. With our well-proven uhde dual pressure technology, clean ammonia can be produced in large quantities and we are very proud to be QatarEnergy's and QAFCO's partner in this lighthouse project. We are ready for the green transformation."

thyssenkrupp Uhde has over 100 years of experience in engineering and building of chemical plants, more than 2,500 in total. Among the 130 ammonia plants built are some of the largest plants worldwide, frequently setting new industry standards such as the uhde dual pressure technology. Besides the fertilizer industry, thyssenkrupp Uhde is also targeting the clean energy market with its clean ammonia technologies and is also completing the value chain by offering ammonia storage and ammonia cracking solutions being relevant for the transition towards clean energy.

In the fertilizer industry, thyssenkrupp Uhde is a full solutions provider with highest standards and leading technologies supporting the move towards more sustainability. Slow-release technologies such as urease inhibitors or environmental-friendl PLA-coating help to meet highest emission standards. Scrubbing units or ACT (ammonia convert technology) in UFT Fluid Bed Urea Granulation minimize dust and ammonia emissions, and EnviNOx reactors in nitric acid plants enable a nearly complete removal of NOx and N2O emissions. All these technologies are tailor-made to customer's requirements and are offered in fully flexible execution types covering scopes from pure licensing to full EPC.

Soource : Decarbonisation Technology

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For example, states such as Florida, New York, Colorado, Pennsylvania, and Utah created specific testing rules that hemp growers and brands must follow, some more comprehensive than the USDA's mandates.

The diverse regulations mean multi-state hemp operators need reliable support to remain compliant. Hemp supply chain companies need qualified third-party laboratories that meticulously follow nuanced laws to ensure their products are permissible across the country. End-users also deserve the safest, highest quality products–regardless of where they reside.

Although ACS Laboratory foresees federal legalization for cannabis in the future, it may be years before national laboratory standards are created. The National Hemp Testing Panel is ACS Laboratory's solution to meet all the state standards for nationally sold hemp products.

Led by their Principal Scientist Laboratory Director, Dr. Aixia Sun, D.H.Sc., M.Sc., B.Sc., MT (AAB), ACS Laboratory conducted intense due diligence for several months. The laboratory researched the fine print of every state's rules for hemp sampling, THC potency, cannabinoid content, residual solvents, pesticides, mycotoxins, heavy metals, and microbiology. With that research, they created elaborate matrices to compare each mandate.

Using the data collected, ACS Laboratory extracted the strictest requirements per category to create the National Hemp Testing Panel and corresponding Certificate of Analysis. With the National Hemp Testing Panel, ACS Laboratory tests for 18 cannabinoids, 105 pesticides, 24 heavy metals, 55 potential residual solvents, 17 different microorganisms, and every required mycotoxin to detect parts per billion, as well as for moisture content, water activity and terpenes (upon request).

After reviewing the maximum allowable limits for various contaminants in different states, ACS Laboratory realized they needed to develop new testing methods to align. Specifically, they invested in highly sensitive instrumentations that could quantify the lowest action limits.

"We developed the National Hemp Testing Panel because comprehensive testing is key to the industry's future. Compliance is critical to reducing liability risks and expanding market opportunities, and unfortunately, most laboratories do not offer comprehensive testing," said Roger Brown, president of ACS Laboratory. "By submitting samples for national panel testing, hemp growers, manufacturers, and processors can confidently sell products anywhere in the country."

Brown continued, "The national panel means direct-to-consumer brands can ensure its customers that they're producing clean, safe and high-quality goods, which have passed the most stringent requirements nationwide. While we believe a lesser national panel should be more ubiquitous, the ACS Laboratory National Hemp Testing Panel meets all the state standards for nationally sold hemp products."

An ISO 17025 compliant, DEA licensed, and CLIA licensed laboratory, ACS Laboratory offers the largest state-of-the-art testing facility in cannabis and hemp testing in the eastern U.S. It is on a mission to support cannabis and hemp companies in their pursuit to deliver clean, safe, and innovative products that promote positive progress in the industry. ACS Laboratory is always ahead of the development curve, continually enhancing its testing methodologies and developing new tests for harmful toxins, therapeutic terpenes, and minor cannabinoids.

Source : PRNewswire

VIEWS AND STATEMENTS

"We are excited to launch the new feminine care packaging that has a reduced carbon footprint and will contribute to our sustainable innovations. The solution demonstrates our and Mondi's commitment to the Ellen MacArthur Foundation: to work towards full recyclability and to increase the use of recycled plastic in our packaging. The end result is eye-catching, well designed and makes a positive impact on the environment."

- Guosheng Zhang, Global Technical Innovation Manager Feminine Care

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"I am thrilled to see the combination of Huntsman Textile Effects and Archroma, Finally, we have achieved a dream of combining the technologies, products and capabilities of the legacy pioneers of the textile industry, namely Ciba, Sandoz, Hoechst and BASF, into a modern and cohesive enterprise that is focused on delivering innovative and sustainable systems and solutions to serve the evolving needs of today's textile industry."

- Barry Siadat, Co-founder of SK Capital Partners and Chairman of Archroma.

"We are excited to work with ABF to develop and showcase Celgard next generation membrane separators and to advance lithium battery technology with LFP chemistry, LFP represents an important market and Celgard dry-process membrane separators offer a high-performance technology solution for this application."

- Lie Shi, Asahi Kasei global head of separator business development and executive vice president of Polypore.

"If the world is to meet its sustainability goals, hydrogen must be part of the solution. Working in partnership, we are creating a world where hydrogen and fuel cell technology will play a central role in decarbonizing heavy-duty vehicles and industry, The journey is well underway, and Air Products has already committed $11 billion to world-scale projects to grow the low- and zero-carbon hydrogen economy and expects to commit at least an additional $4 billion through 2027."

- Dr. Serhan

""The supply of these end flash units to the largest LNG producer in the world is a great achievement for our team, and other projects are now considering this technology for their LNG plants. The units are a great complement to the AP-X® LNG process by helping to maximize LNG production capacity and efficency. We believe this order demonstrates QatarEnergy's confidence in Air Products' robust and reliable coil wound heat exchanger technology, These new units continue Air Products' strong commitment to supply the latest LNG technology and equipment to QatarEnergy and build upon the existing 14 LNG trains already operating at the Ras Laffan location, all using Air Products' AP-C3MRTM and AP-X® LNG technologies."

- Dr. John Palamara, Air Products' General Manager – LNG.

VIEWS AND STATEMENTS

"We are excited to launch the new feminine care packaging that has a reduced carbon footprint and will contribute to our sustainable innovations. The solution demonstrates our and Mondi's commitment to the Ellen MacArthur Foundation: to work towards full recyclability and to increase the use of recycled plastic in our packaging. The end result is eye-catching, well designed and makes a positive impact on the environment."

- Guosheng Zhang, Global Technical Innovation Manager Feminine Care

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"The challenge was to find the best combination of renewable and recycled content that maintains product quality and the production efficiency already enjoyed by Essity. We tested several options until we found the most suitable solution. Working in collaboration with Essity and Dow validates our EcoSolutions approach; we go back to the start and ask the right questions to ensure we create the best possible solution for our customers."

-Marjo Kuisma, Regional Sales Consumer Flexibles, Mondi

"We are very proud to work with Röchling Medical on this project. It's the first time we are supplying CirculenRenew grades for a primary pharmaceutical packaging application. This is an important milestone for us which also supports our ambitious goal of producing and marketing 2 million metric tons of recycled and renewable-based polymers by 2030."

- Mathieu Lecomte, marketing manager at LyondellBasell.

"We are happy to be back in the nation's pharma capital as this is one of the main user industries for our equipment and technologies. The pharma industry is rapidly evolving due to the global geopolitical landscape as well as domestic incentives like PLIs. To meet the Indian pharma industry's ambitious growth targets, including improved R&D outcomes as well as a higher share of exports, next-generation analytical equipment and laboratory technology as well as improved tools for biotechnology and diagnostics are the need of the hour. Exhibitors and visitors to analytica Anacon India and India Lab Expo 2022 will benefit from the knowledge-rich conferences, focused buyer-seller meetings, and the international network of analytica events through the presence of hosted buyer delegations."

- Gautam Rajan, President, Indian Analytical Instruments Association, joint organizer of these trade fairs

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"Safety shoe wearers can be on their feet more than 10 hours a day. This exerts significant pressure on their feet, legs, joints, and lower back. Infinergy is well-known for its robust properties in safety footwear and will no doubt benefit consumers in the Australian safety footwear market, including tradespeople, construction workers, miners, and logistics staff such as warehouse and transport workers."

- Adrian Blandford, Global Range Manager (Work & Safety), Blundstone Australia.

Maynards Europe and Aaron Industrial Solutions Appointed for Recovery and Asset Disposal of Cologne Perfume and Fragrance Manufacturing Facilities

Global cosmetic, skin, fragrance, and hair product manufacturer of popular brands such as Hugo Boss and Bruno Banani have, as part of their global restructuring operations, decided to close their Cologne, Germany fragrance manufacturing facility. The German facility closed in July 2022.

In Cologne-Ehrenfeld, the last bottles of fragrance were packed and sealed on 29th July. Fans of the exclusive cosmetic brands of Kim Kardashian and Kylie Jenner won't go short, as production of these products is reported to be moved to alternative manufacturing sites in Spain and France[2].

Until 1993, the Cologne-Ehrenfeld site was run by the traditional MuelhensFamily and produced perfumes and fragrances like the famous "4711" before being taken over by Wella AG as part of the Cosmopolitan Cosmetics GmbH and later by Procter & Gamble.

To facilitate the redevelopment of the former production site, the current owner appointed the German recovery specialist Maynards Europe and the American liquidation expert Aaron Industrial Solutions to clear the contents of the facility for reuse and recycling. As part of the clearance process, a public online auction will be held in September 14th and 15thfor the redundant manufacturing assets.

Daniel Kröger, CEO of Maynards Europe and Peder Grimstrup, Managing Director, AIS jointly stated: "We are proud to have earned the trust of the facility owners and to be appointed to dispose of the surplus manufacturing equipment. We have a responsibility towards society and the environment, and the closure of the facility will be carried out under the premise of sustainability. Our goal is for the redundant equipment to be made available for reuse as much as possible. Together as a team, the current owners have chosen two dedicated experts in the field of global asset disposal and recovery."

Source : Chemical Market

Sabic Expands its Ultem™ Resin Optical Material Portfolio to Help Advance the Adoption of Single-Mode Fiber Optics

SABIC, a global leader in the chemical industry, has expanded its optical materials portfolio with the launch of ULTEM™ 3310TD resin, which is well suited for optical transceiver collimator lenses used in single-mode fiber optic systems. This new polyetherimide (PEI) resin delivers a significantly lower coefficient of thermal expansion (CTE) than that of standard ULTEM grades. A low CTE is essential to optimize the dimensional stability of the collimator lenses and ensure alignment with single-mode fibers. Furthermore, the new grade provides near-infrared (IR) transmission without degrading signal quality. As a potential replacement for glass, ULTEM 3310TD resin offers the efficiency of high-volume micro-molding, avoids the need for costly secondary operations, expands design freedom and lowers part weight.

"SABIC is helping to facilitate further adoption of single-mode fiber optics, an emerging datacenter infrastructure technology for high-speed transmission

of large data volumes over long distances," said Scott Fisher, business director, ULTEM Resins and Additives, SABIC. "Our new lower-CTE ULTEM 3310TD resin, a great candidate for single-mode optical transceiver lenses, provides better design and production capability, and potential cost savings, compared to traditional aspherical glass lenses. This new material builds on decades of customer success using incumbent ULTEM resins for multi-mode fiber optic components. As the industry embraces new advancements such as increasing use of single-mode fiber optics, SABIC continues to innovate with targeted, high-performance products."

ADDRESSING CHALLENGES WITH SINGLE-MODE FIBER OPTICS

As datacenters handle larger data volumes that generate more heat, temperature fluctuations can cause expansion and shrinkage in optical lenses. Dimensionally stable lens materials are needed to avoid misalignment with the fiber, which can lead to signal loss or distortion. This challenge is more critical with single-mode fiber than multi-mode fiber, due to the difference in core diameter (8-9 µm vs. 50-62.5 µm, respectively). Collimation in the smaller light bundles of single-mode fiber is highly sensitive to misalignment, with less tolerance for heat-induced dimensional changes.

New ULTEM 3310TD resin has a CTE of ~38 ppm/C, a reduction of 30 percent compared to the CTE of ULTEM™ 1010 resin, which is widely used in multi-mode optical transceiver lenses.

The new material's CTE, while not as low as that of glass, expands the implementation opportunities for thermoplastics in single-mode fiber optics. Furthermore, ULTEM 3310TD resin offers several advantages over glass, including the ability to be micro-molded into a wide variety of shapes without the time-consuming secondary grinding and polishing required for aspherical glass lenses. As a thermoplastic, the new resin helps enable complex part designs, like free-form optics and multi-channel lens arrays, which may be difficult to achieve with glass. It also helps to achieve easy integration of mechanical and optical components such as alignment fixtures. For customers that use ULTEM 1010 resin for multi-mode fiber optic lenses, choosing ULTEM 3310TD resin instead of glass for single-mode optics provides continuity in processing and simplifies the supply chain. The two grades complement each other, offering a complete solution for single-mode and multi-mode applications.

"Until now, the industry has been forced to use glass for single-mode optical lenses because the CTE of conventional thermoplastics was too high," said David Wang, senior product manager, SABIC. "We formulated ULTEM 3310TD resin with a low CTE to address the increased dimensional stability requirements of single mode fiber, while maintaining near IR transmission above 85 percent. To assist customers around the world in transitioning to ULTEM resin, SABIC's Technology Centers in Europe and Japan provide micro-molding capabilities, including state-of-the-art equipment to test optical properties, metrology and aging."

In addition to optical transceiver lenses, ULTEM 3310TD resin can potentially be used in other telecommunications applications such as optical modems and optical cables. Furthermore, it can be considered for components in other industries that call for a low CTE and good IR transmission, such as LiDAR sensors (automotive), drones (electronics) and robots (industrial).

Source : Sabic

Evonik is Substituting up to 40 Percent Natural Gas at its German Sites

- Energy supply at largest European sites largely secured even in case of Russian gas stop
- Released natural gas volumes available to replenish Germany's natural gas storage facilities
- Usage of Liquefied Petroleum Gas at site in Marl as most significant measure

Essen, Germany. Evonik is making energy supply at its German sites significantly less dependent on natural gas. Substitution with alternative energy sources can replace up to 40 percent of Germany's natural gas supply - without significantly curtailing chemical production. In addition to safeguarding its own production, Evonik is thus making a contribution to save natural gas in Germany: The volume of gas being substituted is equivalent to the annu-

al consumption of more than 100,000 households.

The most significant measure is being implemented at Evonik's largest German site in Marl. In the new gas-fired power plant, liquefied petroleum gas (LPG) will be used instead of natural gas to generate energy. This does not only secure the energy supply and thus continuation of production in Marl. The natural gas volumes released are available to replenish Germany's natural gas storage facilities. Evonik is being supported in this by bp. The energy company is making an important contribution to the supply of LPG at the Marl site.

The coal-fired power plant in Marl is also making a contribution to securing energy supply. Evonik had originally planned to shut down this power plant this year. Following the change in the legal framework, Evonik will now recruit the necessary personnel, invest in technical maintenance, and secure coal supplies to ensure continued operation beyond this year.

"By substituting natural gas with LPG and continuing to operate the coal-fired power plant, we can completely dispense with natural gas for energy supply at our largest German site in Marl - without any significant curtailments in production," says Christian Kullmann, chairman of Evonik's executive board. "The energy supply at our European sites is thus largely secured, even in the event of a Russian gas stop."

Evonik procures a total of around 15 terawatt hours (TWh) of natural gas per year worldwide, most of which is used for power and steam generation. Germany accounts for a good third of this. Energy supplies to Evonik sites outside Germany, for example, in Antwerp (Belgium), are largely independent of gas supplies from Russia. In Germany, on the other hand, a loss of Russian gas supplies would seriously jeopardize chemical production.

This risk is now being significantly reduced. LPG is a liquefied gas mainly comprising butane, unlike natural gas or LNG, which mainly comprises methane. LPG is a by-product of Evonik's production network for C4 derivatives (Performance Intermediates) in Marl. It can also be procured on the market. Through the integrated network with the bp refinery in Gelsenkirchen (Germany), Evonik and bp can use their existing production, logistics and infrastructure to ensure an adequate supply of LPG in Marl. "Saving gas is an important and pressing issue for us all in Germany in the present situation. Therefore, we are happy to support Evonik through collaboration between the bp location in Gelsenkirchen and Evonik's site in Marl in order to realize the planned substitution of natural gas by LPG," says Wolfgang Langhoff, chairman of the board of BP Europa SE.

The flexibility of being able to use both natural gas and LPG in Evonik's new gas-fired power plant is now proving an advantage as well. The use of LPG is currently being successfully tested in close cooperation with the builder, Siemens Energy.

Evonik has also identified measures for the substitution of natural gas at its other German sites, such as Steinau, Essen, Krefeld, Lülsdorf and Wesseling. Here, natural gas is to be partially replaced by fuel oil. Corresponding investments have already been initiated.

Source : Germany

Phenol and Acetone with Reduced Carbon Footprint INEOS Supplies Covestro with Mass-Balanced Raw Materials for Polycarbonate Plastics

Covestro will now be supplied with the two mass-balanced raw materials phenol and acetone from INEOS' INVIRIDIS™ product range. Covestro uses these CO2-reduced products to manufacture its high-performance polycarbonate plastic. It is used in headlights and other automotive parts, but also in housings for electronic devices, light guides and lenses, medical devices, and many other high-value applications.

"By switching to mass-balanced renewable raw materials, we aim to significantly reduce our indirect emissions in the supply chain and offer products with a reduced carbon footprint," says Sucheta Govil, Chief Commercial Officer of Covestro. "In doing so, we're helping our customers to meet their climate goals and advance the transition to a circular economy."

New label for circular intelligent solu-

tions

Lily Wang, global head of the Engineering Plastics segment, emphasizes the further benefits for customers: "We offer them a drop-in solution that they can quickly and easily integrate into existing production processes without requiring any technical changes. The products show the same good quality as their fossil-based counterparts." As part of the CQ family of circular intelligent solutions, Covestro offers them under the names Makrolon® RE, Bayblend® RE, Makroblend® RE, and Apec® RE. With its new CQ concept, Covestro highlights the alternative raw material basis in products and thus gives a clear indication to customers who are looking for such products.

INVIRIDIS™ brand phenol and acetone are produced from bio-attributed cumene at INEOS' Gladbeck and Antwerp sites – without competing with the food supply. Both sites are certified according to the internationally recognized ISCC PLUS as well as the RSB standard. The raw materials have a lower carbon footprint than petroleum-based products.

Certification by ISCC PLUS and RSB underlines INEOS' strong commitment to working with the bioeconomy and reflects the strong sustainability of INVIRIDIS™.

Gordon Adams, Business Director of INEOS Phenol, said, "As part of our sustainability strategy, we have developed these more sustainable phenol and acetone products, which we have named INVIRIDIS™. This new product range provides our customers with drop-in product options that meet their stringent quality and performance requirements. At the same time, we're moving the industry toward a more climate-friendly economy for phenol and acetone without compromising its unique product attributes."

Source : Covestro

LOTTE Chemical and LOTTE Construction Begins Development of Highly Pure Nitrogen Production Technology Using Carbon Capturing Gas Separator

- LOTTE Chemical and LOTTE Construction signs MOU for developing highly pure nitrogen production technologies using carbon capturing gas separators... Pursuing process development, testing facility installation and operation, review commercialization application
- Produced highly pure nitrogen can be used by the plant or sold outside... Help with procuring economics of CCU equipment
- Basic Materials Research Chief Hwang Min-jae, "CCU application will be continuously expanded to achieve carbon neutrality"… "R&D will be carried out continuously to expand LOTTE Chemical's gas separator CCU technologies"

LOTTE Chemical announced that it has begun development of highly pure nitrogen production technologies using gas separator CCU (Carbon Capture, Utilization) on the 2nd.

LOTTE Chemical and LOTTE Construction agreed to pursue mutually organic cooperation based on the core capacities and technologies possessed by each company through an MOU for developing highly pure nitrogen production technology using carbon capturing gas separators by the LOTTE Construction Technology Research Institute on the 27th. The event was joined by LOTTE Chemical Basic Materials Research Chief Hwang Min-jae, Innovation Center Chief Choi Youngheon, LOTTE Construction Technology Research Institute Director Kim Geum-yong, and Technology Research Planning Team Leader Seok Won-gyun.

Through this MOU, the two companies will pursue • highly pure nitrogen production process development, • installation and operation of testing facilities, • green certification, and • application of commercialization.

Exhaust gas is generated when manufacturing products in the petrochemical process, and CCU technologies refer to the technology for collecting regularly discharged exhaust gas to separate and utilize carbon dioxide. Exhaust gas also includes carbon dioxide, but also con-

tains about 70% of nitrogen. LOTTE Chemical plans to gather the nitrogen included in exhaust gas to make it highly pure for utilization. Plans are to improve economic efficiency as well when installing CCU equipment later with the said technologies.

Nitrogen is often injected in work related to process activation or repairs in petrochemicals. LOTTE Chemical also currently uses nitrogen for equipment sealing, pipe purging, drying, etc. Nitrogen is also used in a variety of other areas such as production of steel and steel products, automobile and electronic device welding, food packaging, etc. LOTTE Chemical plans to use nitrogen procured through the highly pure production process at its plant or sell the nitrogen.

LOTTE Chemical Basic Materials Research Chief Hwang Min-jae stated, "CCU application will be continuously expanded to achieve carbon neutrality," adding, "R&D will be carried out continuously to expand LOTTE Chemical's gas separator CCU technologies."

LOTTE Construction Technology Research Institute Director Kim Geum-yong commented, "Through this MOU, we now have the opportunity to strengthen the technology capacities and cooperation of the two companies to respond to climate change," and added, "We will find new projects and increase investments for carbon neutrality."

Meanwhile, in March of this year, LOTTE Chemical installed gas separator CCU pilot facilities for the first time among domestic chemical companies at Yeosu Plant 1 and conducted test operations for nine months. Through this, performance verification of carbon capture gas separator was completed, and it is pursuing commercialization of the separator carbon capture for the first time among global companies at the Daesan Plant based on the data and operating technologies collected and analyzed during the testing process.

Source : Lotte Chemical

Linde Inaugurates World's First Hydrogen Refueling System for Passenger Trains

Woking, UK, August 24, 2022 – Linde (NYSE: LIN; FWB: LIN) today announced it has inaugurated the world's first hydrogen refueling system for passenger trains in Bremervörde, Germany.

Linde's hydrogen refueling system, which it built, owns and operates, will refuel 14 hydrogen-powered passenger trains, enabling each train to run for 1,000 km emission-free on a single refueling. It has a total capacity of around 1,600 kg of hydrogen per day, making it one of the largest hydrogen refueling systems ever built. Linde's future-ready hydrogen refueling system has been designed and constructed with the ability to integrate future on-site green hydrogen generation. The new hydrogen trains will replace existing diesel-powered trains.

"Linde is committed to making a significant contribution towards decarbonizing transport in Europe," said Veerle Slenders, President Region Europe West, Linde. "We are proud that Linde's innovative technology plays a key role in supporting this project and establishing a blueprint for cleaner public transport systems around the world."

"The world's first hydrogen train, the Coradia iLint, demonstrates a clear commitment to green mobility combined with the latest technology," said Müslüm Yakisan, President of Alstom in Germany, Austria and Switzerland. "We are very proud to see the first series operation in action together with our partners Linde, LNVG and evb."

Linde is a global leader in the production, processing, storage and distribution of hydrogen. It has the largest liquid hydrogen capacity and distribution system in the world. The company operates the world's first high-purity hydrogen storage cavern plus pipeline networks totaling approximately 1,000 kilometers globally, to reliably supply its customers. Linde is at the forefront in the transition to clean hydrogen and has installed over 200 hydrogen fueling stations and 80 hydrogen electrolysis plants worldwide. The company offers the latest hydrogen technologies through its world class engineering organization, key alliances and partnerships.

Source : Linde

SK Geo Centric and SABIC Jointly Invested KRW 200 Billion to Expand the Nexlene Plant in Ulsan to Seize the Global High-Performance Chemical Product Market

- SSNC, a joint venture between SK Geo Centric and SABIC, signed a new and expanded MOU with Ulsan, South Korea on the 23rd
- Plan to produce high value-added materials such as auto parts and solar films, and improve environmental protection by reducing the use of plastics
- It is estimated that the annual output will reach 300,000 tons in 2024, and more than 90% will be exported overseas, which is expected to drive the local economy.

To capture the growing market demand for high-performance chemical products, SK Geo Centric will join forces with Saudi Basic Industries Corporation (SABIC) for a joint investment. The combination of SK Geo Centric's technology and SABIC's raw material advantages is expected to create synergies in the high-performance chemical products market. SK Geo Centric stated that SSNC (SABIC SK Nexlene Company, hereinafter referred to as SSNC), a joint venture established with SABIC, signed a Memorandum of Understanding (MOU) with Ulsan City on the 23rd to invest in a new and expanded high-value-added chemical products factory in Ulsan City.).

According to this investment agreement, SSNC will invest approximately KRW 200 billion through its Korean subsidiary Nexlene Korea by July 2024 in a production base with an area of 1,322 square meters at No. 1 Saping-ro, Cheongnyang-eup, Ulju-gun, Ulsan, Korea , New and expanded high-performance polyolefin elastomer (POE) production plant. SSNC is a joint venture established by SK Geo Centric and SABIC in 2015, and Nexlene Korea is a 100%-owned subsidiary of SSNC. SSNC has invested 605.1 billion won in South Korea's Nexlene to build a factory with an area of 68,100 square meters and an annual production of 210,000 tons of Nexlene products. This new and expanded project will increase its annual output by 43% to 300,000 tons, while exporting more than 90% of its output overseas. Ulsan Metropolitan City Mayor Kim Doo-gyeom, SSNC Chairman Sami Mohammed Al-Osaimi and SSNC CEO Lee Tae-geun Lee Tae-geun attended the event. SSNC and the City of Ulsan have decided to strengthen cooperation under this agreement to boost the local economy by expanding the global supply of Nexlene, a high-performance chemical product. Nexlene is a high-performance product developed by SK Geo Centric in 2010 using ethylene as a raw material. Nexlene has the meaning of "a new generation of chemical products" and is the first product in Korea to apply its own technology in the entire process of catalyst, process and product. Nexlene excels in properties such as safety, clarity and strength compared to typical polyethylene products, and has an excellent density range that can be easily reprocessed into a variety of other products. The investment is aimed at actively responding to the rapidly increasing market demand for high value-added environmentally friendly materials such as automobiles and solar energy in recent years. South Korea's Nexlene is using Nexlene to produce high-performance products such as polyolefin elastomers (POE), polyolefin plastomers (POP) and linear low density polyethylene (LLDPE). By developing excellent high-performance products, South Korea's Nexlene has broken the market pattern once monopolized by global petrochemical companies such as Dow Chemical, and is achieving rapid development.

Because of its excellent elasticity and high impact resistance, the polyolefin elastomer (POE) products in this new expansion project are mainly used in automotive weight-saving parts that require high plastic performance. Compared with other products, it can reduce power loss and is also used in solar power generation films. In addition, polyolefin plastomers (POPs) are used in medical and food packaging materials due to their good sealing and safety properties. It can also effectively block contact with external substances and extend the shelf life of the product. Therefore, high-performance chemical products (POE/POP) can be applied to a variety of

Price as on August 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 Alcohol (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	

fields, and the global market size is expected to grow rapidly at an annual rate of 5%. Kim Jong Il, CEO of Nexlene Korea, said: "Our self-developed product Nexlene is being used in high value-added products such as automobile weight reduction and solar energy materials. By investing in this project, it is expected to seize the market. I feel We are very pleased. We will continue to work hard to ensure that Nexlene's excellent product performance is also recognized globally for its environmental benefits."

Source : SK Innovation

Sabic Expands Chemically Resistant LNP™ CRX Portfolio With Four New Sustainable, Thin-Wall Flame Retardant Copolymers Well-Suited For Healthcare And Consumer Electronics

SABIC, a global leader in the chemical industry, has expanded its portfolio of exceptionally chemically resistant LNP™ CRX polycarbonate (PC) copolymer resins with four new grades, featuring sustainability, thin-wall flame retardancy (FR), low-temperature ductility and ultraviolet (UV) stability, well-suited for healthcare and consumer electronics applications. There are two product pairs, each with a bio-based version that can further reduce environmental impacts and help lower carbon footprint. These high-performance materials can help meet customer demands for world-class resistance to chemicals ranging from the harsh disinfectants widely used in healthcare applications to sunscreen and hand creams that often come in contact with consumer electronics devices. The new LNP CRX grades also offer the potential to enhance regulatory compliance and design flexibility.

"SABIC is continuously improving our material families to deliver greater value to our customers, and our new LNP CRX products are excellent examples of this," said Joshua Chiaw, director, Business Management, LNP & NORYL, Specialties, SABIC. "These advanced technologies provide sustainability enhancements, including the incorporation of non-brominated/non-chlorinated flame retardants. They also comply with thin-wall flame retardant ratings, offering the potential to reduce part thickness and raw material usage."

All of these products support the European Union's Directive 2019/2021 under Point D, Annex II of the Ecodesign Regulations for Electronic Displays.

NEW SOLUTIONS FOR INDUSTRY CHALLENGES

For the healthcare industry, the new LNP ELCRES™ CRX7412U copolymer and its bio-based version, LNP ELCRIN™ CRX7412UB copolymer, offer limited biocompatibility according to ISO 109931. They are candidates for replacing incumbent PC, acrylonitrile-butadiene-styrene (ABS) and polyester/co-polyester materials in thin-wall applications such as housings, diagnostic and monitoring devices, and durable medical equipment.

Not only do LNP ELCRES CRX products demonstrate compatibility with the most aggressive disinfectants on the market—alcohols, peroxides and quaternary ammonium compounds—they also deliver excellent mechanical performance, notably a good balance of impact and ductility.

The other two grades, LNP ELCRES CRX7416U copolymer and its bio-based version, LNP ELCRIN CRX7416UB copolymer, are well suited for demanding consumer electronics and mobility applications such as mobile device housings and battery covers. These products can potentially meet stringent requirements for chemical resistance and low temperature ductility (-60°C) better than many competitive materials, including PC/ABS and polycarbonate/polybutylene terephthalate (PC/PBT) blends.

SIGNATURE CHEMICAL RESISTANCE

Frequent disinfection of hospital equipment can cause polymers to develop environmental stress cracking (ESC), which can lead to part degradation and failure. Similarly, repeated exposure to sunscreen, skin oils and lotions can cause ESC in smartphone cases and other consumer electronics applications. SABIC's LNP CRX copolymer resins address this problem by delivering improvements in chemical resistance over traditional materials such as PC or impact-modified blends. Using these new materials can help customers extend device life and avoid costly, premature replacement.

The new LNP CRX grades maintain this signature high chemical resistance while adding value through improved thin-wall FR capability. Thin-wall molding is becoming increasingly important in the design of smaller and lighter-weight applications like portable and hand-held medical equipment, as well as tablets, smartphones and wearable electronics. The new grades meet the UL 94 V0 standard at very thin gauges: 1.2 mm for LNP CRX7412U/B copolymers and 1.0 mm for LNP CRX7416U/B copolymers.

BIO-BASED GRADES WITH ISCC+ DESIGNATION

Bio-based LNP ELCRIN CRX copolymer resins help enhance sustainability through the incorporation of renewable feedstock derived from non-fossil waste materials that do not compete with the food chain. This content is compliant with the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)2 regulation and the Restriction of Hazardous Substances (RoHS)3 directive. An internal life cycle analysis conducted in accordance with ISO 14040/14044 protocols revealed

LNP ELCRIN CRX7412UB resin can offer reductions in carbon footprint of up to 36 percent when compared to the fossil-based version, LNP ELCRES CRX7412U resin, enabling the bio-based material to earn the International Sustainability and Carbon Certification Plus (ISCC+) designation.

LNP ELCRIN CRX7416UB resin can offer the same reduction in carbon footprint of up to 36 percent for consumer electronics and mobility applications. Critically reviewed SABIC primary data, combined with the latest manufacturing data and industry average estimates, was used in the cradle-to-gate comparison of these resins.

"The plastics industry has long struggled to develop solutions that maintain high chemical resistance with non-brominated/ non-chlorinated flame retardants and also offer an improved sustainability footprint," said Luc Govaerts, technology director, Specialties, SABIC.

"Our scientists and engineers have overcome this challenge with the introduction of the new LNP ELCRIN CRX grades, demonstrating a major step forward in the development of advanced material technologies that incorporate bio-based content with outstanding durability. This combination gives customers a broader array of high-performance material solutions for a wide range of applications across multiple industries."

Source : Sabic

Global Amines Signs A Definitive Agreement to Acquire The Global Quats and Esterquats Business of Clariant

Singapore, August 31, 2022 - Global Amines Company Pte. Ltd., a 50-50 joint venture of Clariant and Wilmar, has signed a definitive agreement to acquire the Global Quats and Esterquats Business from Clariant. The acquisition is subject to regulatory approvals and is expected to close in the first half of 2023. The purchase price, subject to standard closing conditions, is set at USD 113 million.

With production assets located in Germany, Brazil and Indonesia, the current Quats and Esterquats business of Clariant includes reputable products sold under the Praepagen® and Genamin® trademarks and have a well-established presence in the home and personal care market. The business maintains an excellent reputation as a leading supplier of quats with proprietary technology and the products are used in a broad range of products including fabric softeners and hair conditioners.

"The Quats and Esterquats business is an ideal fit for Global Amines Company as it perfectly complements our product portfolio and our ability to offer customers the best and most com-

Visit : https://chemicalmarket.net/search for more product listing...

PRODUCT LIST

A

B

C

D

E

Edible Refine Salt
SKC INDUSTRIES LLP Pg 14
Epichlorohydrine
KRISHNA SOLVECHEM LTD. Pg 10
Ethylene Diamine (EDA)
KRISHNA SOLVECHEM LTD. Pg 10
Ethylene Dichloride
KRISHNA SOLVECHEM LTD. Pg 10

F

Formic Acid
KRISHNA SOLVECHEM LTD. Pg 10

G

Gibberlic Acid
Chemilife Enterprises Pg 16
Green - BL
Mavani Chemicals Pvt. Ltd. Pg 13
G Salt to Amido G Acid
AAKAR DYES AND CHEMICALS Pg 12

H

H Acid
AAKAR DYES AND CHEMICALS Pg 12
Heptanes
KRISHNA SOLVECHEM LTD. Pg 10
Hexane
KRISHNA SOLVECHEM LTD. Pg 10
Basic Brown Y Liquid Pg 12
HIREN ENTERPRISES Pg 12
Basic Brown Y Liquid Pg 12
Hydrazine Hydrate 80%
KRISHNA SOLVECHEM LTD. Pg 10
Hydrogen Peroxide 50%
KRISHNA SOLVECHEM LTD. Pg 10
Hydroxylamine Sulphate
KRISHNA SOLVECHEM LTD. Pg 10

I

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Chemilife Enterprises Pg 16
Indole Butyric Acid
Chemilife Enterprises Pg 16
Industrial Salt
SKC INDUSTRIES LLP Pg 14
Isobutanol
KRISHNA SOLVECHEM LTD. Pg 10
Isophorone
KRISHNA SOLVECHEM LTD. Pg 10
Isopropanol
KRISHNA SOLVECHEM LTD. Pg 10
Isopropyl Alcohol
KRISHNA SOLVECHEM LTD. Pg 10

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J Acid
AAKAR DYES AND CHEMICALS Pg 12

M

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Mavani Chemicals Pvt. Ltd. Pg 13
MCB
KRISHNA SOLVECHEM LTD. Pg 10
MDC
KRISHNA SOLVECHEM LTD. Pg 10
Methanol
KRISHNA SOLVECHEM LTD. Pg 10
Methylene Di Chloride
KRISHNA SOLVECHEM LTD. Pg 10
Methyl Ethyl Ketone (MEK)
KRISHNA SOLVECHEM LTD. Pg 10
Methyl Iodide
KRISHNA SOLVECHEM LTD. Pg 10
Methyl Iso Butyl Ketone (MIBK)
KRISHNA SOLVECHEM LTD. Pg 10
Methyl Metha Acrylate
KRISHNA SOLVECHEM LTD. Pg 10
Mono Chlorobenzene
KRISHNA SOLVECHEM LTD. Pg 10
Mono Ethyl Amine 70%
KRISHNA SOLVECHEM LTD. Pg 10
Mono Isopropyl Amine 70%
KRISHNA SOLVECHEM LTD. Pg 10
Mono Methyl Amine
KRISHNA SOLVECHEM LTD. Pg 10
Mono Sodium Phosphate
KRISHNA SOLVECHEM LTD. Pg 10
Morpholine
KRISHNA SOLVECHEM LTD. Pg 10

N

Naphthalene 2:7 Disulfonic Acid
AAKAR DYES AND CHEMICALS Pg 12
N-Butanol
KRISHNA SOLVECHEM LTD. Pg 10
Nitrizine Yellow
Mavani Chemicals Pvt. Ltd. Pg 13
N-Methyl-2-Pyrrolidone
KRISHNA SOLVECHEM LTD. Pg 10

O

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Mavani Chemicals Pvt. Ltd. Pg 13
Orange Base
Mavani Chemicals Pvt. Ltd. Pg 13
Ortho Nitro Toluene
KRISHNA SOLVECHEM LTD. Pg 10
Ortho Xylene
KRISHNA SOLVECHEM LTD. Pg 10

P

Papas Acid
Mavani Chemicals Pvt. Ltd. Pg 13
Paraformaldehyde
KRISHNA SOLVECHEM LTD. Pg 10
Para Nitro Toluene
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PCI5
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Peracetic Acid
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Phenol
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Phosgenated and Cyanuric Based
Mavani Chemicals Pvt. Ltd. Pg 13
Phosphate
KRISHNA SOLVECHEM LTD. Pg 10
Phosphoric Acid 85%
KRISHNA SOLVECHEM LTD. Pg 10
Piperazine 68%
KRISHNA SOLVECHEM LTD. Pg 10
Piperazine Anhydrous
KRISHNA SOLVECHEM LTD. Pg 10
Polyamines
KRISHNA SOLVECHEM LTD. Pg 10
Potassium Meta Bi Sulphite
KRISHNA SOLVECHEM LTD. Pg 10
Propylene Glycol
KRISHNA SOLVECHEM LTD. Pg 10
Pyridine
KRISHNA SOLVECHEM LTD. Pg 10

Q

Quinizarine (1-4 Dihydroxy Anthraquinone
Mavani Chemicals Pvt. Ltd. Pg 13

R

Raw Salt/Crystal/Coarse Salt
SKC INDUSTRIES LLP Pg 14
Red - 4G
Mavani Chemicals Pvt. Ltd. Pg 13
Red - HI
Mavani Chemicals Pvt. Ltd. Pg 13

S

Salt Free Dyes
Mavani Chemicals Pvt. Ltd. Pg 13
Silver Peroxide
Chemilife Enterprises Pg 16
Sodium Acid Pyro Phosphate
KRISHNA SOLVECHEM LTD. Pg 10
Sodium Benzoate
KRISHNA SOLVECHEM LTD. Pg 10
Sodium Chloride NACL 99%
SKC INDUSTRIES LLP Pg 14
Sodium Hexa Meta
KRISHNA SOLVECHEM LTD. Pg 10
Sodium Meta Bi Sulphate
KRISHNA SOLVECHEM LTD. Pg 10
Sodium Metal
KRISHNA SOLVECHEM LTD. Pg 10
Sodium Methoxide
KRISHNA SOLVECHEM LTD. Pg 10
Sodium Nitrate
KRISHNA SOLVECHEM LTD. Pg 10
Sodium Nitrite
KRISHNA SOLVECHEM LTD. Pg 10
Sodium Percarbonate
Chemilife Enterprises Pg 16
Sodium Sulphate
SKC INDUSTRIES LLP Pg 14
Sodium Sulphide Yellow Flakes
KRISHNA SOLVECHEM LTD. Pg 10
Sodium Sulphite
KRISHNA SOLVECHEM LTD. Pg 10
Sodium Tri Poly
KRISHNA SOLVECHEM LTD. Pg 10
Stain Indicator
Mavani Chemicals Pvt. Ltd. Pg 13
S. Titan Yellow
Mavani Chemicals Pvt. Ltd. Pg 13
Styrene Monomer
KRISHNA SOLVECHEM LTD. Pg 10
Sulfuryl Chloride
KRISHNA SOLVECHEM LTD. Pg 10
Sulphur Dioxide
KRISHNA SOLVECHEM LTD. Pg 10

T

Tablet Salt
SKC INDUSTRIES LLP Pg 14
Tertiary Butanol
KRISHNA SOLVECHEM LTD. Pg 10
Tetra Hydro Furan
KRISHNA SOLVECHEM LTD. Pg 10
T G Urea
KRISHNA SOLVECHEM LTD. Pg 10
Thionyl Chloride
KRISHNA SOLVECHEM LTD. Pg 10
Tobias Acid
AAKAR DYES AND CHEMICALS Pg 12
Toluene
KRISHNA SOLVECHEM LTD. Pg 10
Tri Ethyl Amine
KRISHNA SOLVECHEM LTD. Pg 10
Tri Ethyl Ortho Formate
KRISHNA SOLVECHEM LTD. Pg 10
Tri Mathyl Amine
KRISHNA SOLVECHEM LTD. Pg 10
Tri-n-Butyl Amine
KRISHNA SOLVECHEM LTD. Pg 10
TRIS AZO
Mavani Chemicals Pvt. Ltd. Pg 13
Tri Sodium Phosphate
KRISHNA SOLVECHEM LTD. Pg 10
Trospium Chloride
KRISHNA SOLVECHEM LTD. Pg 10

V

Vinyl Acetate Monomer
KRISHNA SOLVECHEM LTD. Pg 10
Violet 4B
Mavani Chemicals Pvt. Ltd. Pg 13

Y

Yellow ARL
Mavani Chemicals Pvt. Ltd. Pg 13
Yellow GL
Mavani Chemicals Pvt. Ltd. Pg 13
Yellow RL Base
Mavani Chemicals Pvt. Ltd. Pg 13

Theres Finally Peer-Reviewed Chemistry In Wine And Food Pairings Video

WASHINGTON, Aug. 29, 2022 — Red wine goes with meat; white wine goes with fish. Port goes with Stilton. Never drink wine after eating artichokes. These rules about how to pair wine with food have solid chemical underpinnings — but many others don't. The holy grail of food and wine pairing science would be a framework for understanding why some pairings work and predicting the results of new ones. Find out how close we are to discovering that framework and learn about some highly unexpected pairings (coffee, chocolate and … garlic!?): https://youtu.be/pITgSxidfXs.

Reactions is a video series produced by the American Chemical Society and PBS Digital Studios. Subscribe to Reactions at http://bit.ly/ACSReactions and follow us on Twitter @ACSReactions.

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Source : Chemical Market

petitive solutions from a complete range of Amines, Quats, Amines Derivatives and Betaines. The acquisition plays to the JV's strategic strengths by building on Clariant's long-standing experience in specialties chemicals and Wilmar's position as Asia' leading agribusiness and on its global Oleochemicals business" said Ernesto Horikoshi, Group General Manager of Global Amines Company. "This will guarantee a solid business continuity on a competitive and attractive basis for an ever-stronger future growth" he added.

Source : Chemical Maraket

Sabic's South Korean JV Plans Capacity Expansion To Produce High-Value Chemical Products

SABIC SK Nexlene Company (SSNC), a joint venture between SABIC and SK Geo Centric, has announced plans to expand the capacity of its plant in the South Korean city of Ulsan to produce advanced material solutions.

The expansion, which is due to come on stream in the second quarter of 2024, targets applications in solar panels, vehicles, footwear, and flexible packaging.

Sami Al-Osaimi, Vice President of PE & Sales, SABIC, and Board Chairman for SSNC, said, "We have identified a strong trend toward customized and high-performance polyolefins, especially metallocene polyethylene materials, in several important new technology markets."

"Many of our polymers are ideally positioned to meet the needs of our global customers for enhanced toughness, flexibility, elasticity, heat-sealing properties, and optical properties, among others. The plant capacity increase will provide the operational efficiency to boost the growth of these Nexlene-based materials and give us a significant competitive edge," he added.

Expansion supports SABIC's 2025 growth target to increase operational efficiency, create synergies and strengthen product offerings in its Petrochemicals business.

Source : Sabic

From the Road to the Track: VESTAMID® eCO Gives Scrap Tires a New Life in Athletic Shoes

- placement of 50 percent raw material with used tires
- Produced exclusively with renewable energy
- More than 40 percent less CO2

Essen, Germany. Evonik is introducing a new sustainable high-performance plastic to its eCO product line. In the production of the polyamide 12 elastomer (PEBA) VESTAMID® eCO E40, 50 percent of fossil raw materials are saved and replaced by a starting material obtained from chemical recycling

EVENTS AND CONFERENCES

CPHI WORLDWIDE GERMANY

Date: Nov 1-3, 2022
City: Messe Frankfurt
Country: Germany
Website: https://www.cphi.com/europe/en/home.html

Description: The biggest international pharma industry event is back!

In 2022, CPhI Worldwide will become CPHI Frankfurt: a 3-day event that will take place in person and online. This hybrid model will fuse the best elements of our traditional show with interactive online features to help you get the most out of your CPHI experience!

In addition to our dates in Frankfurt, this format will see our event take place online over an extended period of time, allowing you the flexibility to connect, network, learn and do business – when and how it suits you.

DYE+CHEM BRAZIL INTERNATIONAL EXPO

Date: Nov 08-10, 2022
City: Centro De Eventos PRO MAGNO, Sao Paulo
Country: Brazil
Website: https://www.showsbee.com/fairs/Dye-Chem-Brazil.html

Description: Dye+Chem Brazil International Expo focuses on the manufacturing sector of this potential Nation. Dye+Chem will be the most prestigious and exclusive International Exhibition devoted to focus on all kinds of Dyes and Fine & Specialty Chemicals for the colossal Brazilian manufacturing Industry and will be a one-stop single platform to showcase from home and abroad the latest developments and emerging technology for the Process Industry.

Dye+Chem Brazil will be the biggest meeting place ever held in Brazil for Buyers and Suppliers of Dyestuffs and Fine & Specialty Chemicals and will also provide an interactive platform for Exhibitors to generate business through displays / direct interaction and will enhance the synergy effect and attract top level professionals from the Industry thus improving technology, focus and visitors of the expo.

CPHI KOREA

Date: Sept 28-30, 2022
City: COEX, Seoul
Country: Korea
Website: https://www.cphi.com/korea/en/about/the-event.html

Description: CPhI Korea is the Korean marketplace for pharmaceutical ingredients buyers, manufacturers and suppliers. The show represents all aspects of the ingredients market, including APIs, fine chemicals, biopharmaceuticals, excipients/formulation, intermediates, generic APIs, finished dosage and custom manufacturing.

ICSE Korea connects the global pharmaceutical community with Korean outsourcing solution providers, including clinical trials, contract research, custom manufacturing, biotechnology, IT, analytical services, packaging services and logistics.

P-MEC Korea brings together the global and Korean pharmaceutical machinery and equipment providers including analytical equipment, automation & robotics, batching systems/equipment, cleanroom equipment, health & safety products, instruments,

laboratory equipment, machinery, packaging equipment & supplies, plant/facility equipment, process automation & controls, processing equipment, RFID, tableting and capsule fillers.

bioLIVE Korea focuses on biotechnology and related fields offering an ideal platform for biopharma companies, drug discovery organisations, pharma manufacturers and scientific research institutions to create new partnerships and discuss the latest bio-medical and technological trends.

Hi Korea is a global meeting place for worldwide health ingredients manufacturers, traders, service providers, and other related professionals, including health/natural/functional/bio Ingredients, functional food additives, food technology/equipment, and contract manufacturing.

CPhI Korea is co-organised with the Korea Pharmaceutical Traders Association (KPTA). KPTA strives to foster a favorable trading environment for the pharmaceutical and cosmectic industry in Korea.

INDIA CHEM 2022

Date: Nov 02 -03, 2022
City: Pragati Maidan, New Delhi
Country: India
Website: hhttps://www.indiachem.in/

Description: Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Government of India, jointly with FICCI is organising the 12th Edition of "India Chem 2022" from 02 -03 November 2022 at Pragati Maidan, New Delhi. India Chem, the flagship event of the Department, is one of the largest composite events of the industry in the AsiaPacific region and comprises of an International Conference and Exhibition. India Chem 2022 will showcase tremendous potential and supportive government policy for sustainable growth in the sector and will be a single platform for investors, both domestic and international and other stakeholders to interact and forge alliances, thereby providing immense potential for trade and insvestment, in a mutually beneficial way. The concurrent sessions as part of conference includes Global CEOs Round Table as well as conclaves on different industry segments (e.g., Chemicals, Petrochemical, Agrochemical Industry, Process and machinery) and regional exchanges between India and the counties.

INDIA LAB EXPO 2022

Date: Sept 15-17, 2022
City: Hitex, Hyderabad
Country: India
Website: https://www.indialabexpo.com/

Description: Analytica Anacon India, the analytica Anacon India Conference and the exhibition portfolio for analysis, laboratory technology, diagnostics and biotechnology, address one of the industry's most important growth markets in Asia, i.e. India. Visitors include users and decision-makers from the chemical, medical, food, environmental and pharmaceutical industries as well as industrial and governmental research.analytica Anacon India and India Lab Expo are part of the international exhibition network that includes the exhibitions analytica, analytica China, analytica Vietnam and analytica Lab Africa.

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

of used tires. In addition, only renewable energy is used in production, which reduces the carbon footprint by a total of 42 percent. Evonik will present VESTAMID® eCO and its other sustainable plastic materials under the motto "Next generation plastic solutions" at this year's K trade show in Düsseldorf, Germany, October 19-26, at booth B28 in hall 6.

Circular raw material

VESTAMID® eCO E40, like its classically produced counterpart VESTAMID® E40, is a thermoplastic elastomer from the polyether block amide family with consistently high quality. PEBA molding compounds have been valued by well-known sporting goods manufacturers for more than 40 years and are used, for example, in sports shoe soles. The new product name eCO reinforces Evonik's goal of reducing greenhouse gas carbon dioxide in production by using renewable or circular raw materials-in this case, raw materials from used tires that would otherwise end up in landfills or used thermally. This is achieved through the mass balance approach (further information: Mass Balance Approach VESTAMID® eCO). The method enables an immediate reduction of CO2 in existing plants and does not change the quality of the products in any way.

VESTAMID® eCO E40 is, without any restrictions, an immediate alternative with improved eco-balance for the long-established conventional molding compound for sports shoe soles with high resilience. The soles exhibit excellent low-temperature impact strength, chemical resistance and high elasticity, and are easy to color, process and overmold. Like the molding compounds of the VESTAMID® PEBA range, which have proven themselves for more than four decades, they can also be used in other demanding applications, such as in the automotive and medical technology industries.

Mass balance approach

In the mass balance method, the proportions of mixtures of fossil and renewable or circular raw materials are determined mathematically over the entire value chain during production and assigned to the products. A neutral body verifies this across all production stages and confirms the result in a certificate.

Source : Evonik

Covestro Receives ISCC PLUS Certification for its Map Ta Phut Production Site in Thailand

The Map Ta Phut site of Covestro in Thailand recently received ISCC PLUS certification, an internationally recognized system for biomass and bioenergy sustainability certification. This means the company can now offer its customers in the ASEAN region large volumes of the high-performance plastic polycarbonate, including compounds and polycarbonate films, produced with alternative raw materials in the same good quality as their fossil-based counterparts.

"We are very pleased that Map Ta Phut is another major Covestro production site to be certified according to ISCC PLUS," says Timo Slawinski, Managing Director and Head of the site. "With this, we are continuing to drive forward the replacement of fossil raw materials with alternative precursors." The company received its first shipment of the mass-balanced raw materials phenol and acetone from an Asian supplier in August, producing its first batch of biocircular ISCC PLUS-certified polycarbonate in Map Ta Phut very recently.

The certificate enables Covestro to supply a wide range of mass-balanced products such as Makrolon® RE plastics and Makrofol® films at the cross-segment site, which have a significantly lower carbon footprint than fossil-based products. The first-men-

tioned plastics are part of the CQ family of circular intelligent solutions from Covestro. With the new CQ concept, the company is highlighting the alternative raw material base in its products, giving a clear indication to customers looking for such products.

In the mass balance approach, for example, bio-based or recycled raw materials are fed in at an early stage of raw material extraction and mathematically assigned to the finished products. This saves fossil raw materials and reduces CO2 emissions, while the quality of the mass-balanced products remains identical compared to purely fossil-based ones. With the drop-in solution, customers can continue to use their proven formulations, equipment, processes and specifications. At the same time, Covestro supports them in meeting their sustainability goals.

In addition to Map Ta Phut, Covestro's sites in Shanghai, Changhua, Leverkusen, Dormagen, Krefeld-Uerdingen, Antwerp and Filago have already been certified to the ISCC PLUS standard.

Source : Covestro

Archroma at Report 2022 with Emulsions for Enhanced Sustainability, Performance and Protection

Pratteln, Switzerland, 1 September 2022 - Archroma, a global leader in specialty chemicals towards sustainable solutions, will be exhibiting at REPORT 2022, which will take place in Buenos Aires from 6 to 8 September 2022.

Archroma will be at Booth F12 at the Costa Salguero Exhibition Center.

The company will be showcasing innovations and solutions aimed to help manufacturers with optimized sustainability, productivity and value creation in their markets.

The company's specialist team will be showcasing Archroma's portfolio of Mowilith® and Mowicoll® emulsions for applications such as coatings, sealants, and adhesives, interior and exterior paints, and waterproofing.

The Archroma Mowilith® emulsions are ideally suited to create more value and sustainability for industries such as construction, home decoration, paper and textile. Literally thousands of satisfied customers have witnessed the outstanding success of Mowilith® emulsions since its first patent was obtained in 1912.

The company continues to innovate and add new products in the Mowilith® range. The products are manufactured locally in Argentina and have been developed to provide excellent performance, in a sector where reliable quality and speed to market are essential.

The solutions and innovations presented by Archroma have all been developed in line with the principles of "The Archroma Way to a Sustainable World: Safe, efficient, enhanced, it's our nature".

In particular, Archroma offers emulsions for APEO-free*, formaldehyde-free*, and phthalate-free* options to manufacturers and brands who are committed to develop products and articles that are safer for the workers, end-users, consumers, and the planet.

As a global partner, Archroma operates with world-class standards and reliability, whilst at the same time serving local markets and customers with local offices and production facilities. In Argentina, Archroma has a strong presence with a local expert team, offices and laboratories in Lomas de Zamora, and a plant in Zarate.

Visitors at the booth will also have the opportunity to discover The Safe Edge, an online platform launched by Archroma in September 2021 and allowing for instant access to product related regulatory & compliance certificates and information.

Rafael Romero, Head of Sales, Archroma Emulsion Products for Argentina, comments: "Our customers are facing many market challenges in the post-pandemic context, from supply chain to regulatory evolution to public expectations in terms of safety and ecology. We are therefore looking forward to helping visitors at REPORT 2022 to develop products that are safe, efficient and enhanced. Because it's our nature."

Source : Chemical Market

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				3 months (Cover Pg)
Email Marketing	2 Times	4 Times	6 Times	8 Times
Social Media Marketing	Yes	Yes	Yes	Yes
SEO	-	-	Yes	Yes
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