

DYES & CHEMICAL MARKET

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A MONTHLY MAGAZINE DEVOTED TO

DYES CHEMICALS PHARMACEUTICALS API TEXTILE AUXILIARIES PAINTS SOLVENTS COSMETICS

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Clariant at ACS 2022 Discover Beyond Color Innovation for High-Performance Coatings Products -pg43

Launch of Pilot Project Aimed at Commercial Use of Fuel Ammonia to Naphtha Crackers -pg54

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Expo Paint And Coatings - 2022

28 29 30 July 2022
Pragati Maidan, New Delhi, India.

A Mega Show For Paint & Coating Industry

Total Solutions For Paint Manufacturing & Application

Expo Paint and Coating 2022 will be back in the month of July with an upgraded version. Exhibition will provide a comprehensive platform for every facade of paint & coating industry right from raw materials, formulation, application, technology, finishing, quality assurance, recycling and disposal. Featuring wide range display of products, raw materials, application systems, machines, tools, current trends, development & innovations shaping future of coating industry.

EVENT HIGHLIGHTS

10000 m ² Exhibition Space	250+ Exhibitors	10000+ Visitors	Technical Conference	High Number & Quality Of Trade Visitors / Buyers

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**CONCURRENT SHOW
BRUSH TECH 2022**

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2019 AT A GLANCE

Held at Pragati Maidan Expo Paint And Coating 2019 covered an exhibition area of 3340 Sqm International & Domestic Exhibitors mfrs. & solution providers showcased latest trends in raw materials, application systems, machinery, tools & expertise. A healthy business visitors turnout including good numbers from China, Taiwan, Singapore, Shrilanka, Bangladesh, Myanmar, Nepal, Maldives, Europe & Middle east Event witnessed a Pan India Reach with a visitors from across the country & visitors from abroad constituting to 2% of total number.

Exhibitor Analysis

Satisfaction rate	92%
Participation Probability in next edition	87%
Recommending others for participation	84%

Supported By:



Visitor Analysis

Satisfaction rate	89%
Visiting Probability in next edition	94%
Recommending others to visit	86%

Concurrent Show

28 29 30 July 2022
Pragati Maidan, New Delhi, India.

BrushTech 2022

India's Maiden event on materials technology machinery & accessories for brushes/rollers & mop manufacturing

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Event information may be out of date due to the coronavirus (COVID-19). Confirm details with event organisers. This page was updated on Nov 10th 2021



Cphi - Informa Group

No	Exhibitions	Date	Place
1	CPhi North America	May 17-19, 2022	PHL
2	CPhi Worldwide Germany	Nov 1-3, 2022	Fiera Milano, Milan, Italy
3	CPhi Middle East & Africa	TBD	Abu Dhabi, UAE
4	CPhi China- Virtual CPhi	Dec 16-18, 2021	Shanghai, China
5	CPhi Japan	Apr 20-22, 2022	Tokyo, Japan
6	CPhi Korea	TBD	Seoul, India
7	CPhi India	Nov 24-26, 2021	Noida, India

MECD (Coating Show)

1	Asia Pacific Coatings Show	Sept 14-16, 2022	Indonesia, Jakarta
2	Middle East Specialty Chemicals Show	June 12-14 2021	Dubai
3	Middle East Coatings Show	June 12-14, 2022	Dubai
4	Coatings For Africa	May 04-06, 2022	Sandton, South Africa

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CHEMS

1	Dye+Chem Morocco International Expo	Nov 24-27, 2021	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 09-11 2021	Brazil

Red Carpet Events

1	5th Bangladesh Int'l Dyes, Pigments and Chemicals Expo	TBD	Dhaka, Bangladesh
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Turkey (Arkim Group)

1	InterDye Textile Printing Eurasia	Nov 24-26, 2022	Istanbul
2	Paint Istanbul TURKCOAT	Mar 17-19, 2022	Istanbul
3	Paint Expo Euroasia	Nov 25-27, 2021	Istanbul

Other Exhibitions

1	Paint India	Mar 10-12, 2022	JIO World Convention Center, Mumbai
2	Expo Paint and Coatings	July 28-30, 2022	New Delhi, India
3	CIPI	TBD	Mumbai, India
4	Chemspec Europe	May 31-Jun 01, 2022	Messe Frankfurt, Germany
5	ChemUK 2022 Expo	May 11-12, 2022	NBC, Birmingham, UK
6	American Coatings Show	Apr 05-07, 2022	Indianapolis
7	China Coat China	Mar 02-04, 2022	Shanghai, China Shanghai
8	Interdye China	May 31-Jun 02, 2022	China
9	Paint Expo Germany	Apr 26-29, 2022	Germany

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Contact

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Glacial Acetic Acid	150 Tons	
Caustic Lye	200 Tons	
Copper Sulphate	10 Tons	
Copper Nitrate	10 Tons	
Titanium Dioxide Ana-tase Grade	3 Tons	
BF3 [Borone Trifluoride]	2 Tons	
Glycerin	5 Tons	-

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Ludhiana Road, Malerkotla - 148023

Email : zenithdyes@yahoo.co.in / info@idcda.in

Tel: 01675-263328

Mobile: +91-94172-40234/92165-40234

Product Name	Qty	Grade
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Polysol	Bulk	

Details :

Mr. Tejas Thakkar

M/s Nitish Enterprises,

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Tel: 98200-92170

Product Name	Qty	Grade
Non Ferrous Metals		Manufacturer

Details :

Santosh Thakre

S S Fine Chem Laboratories

Email : ssfinechemlaboratories@gmail.com

Mobile : 9867774142

Product Name	Qty	Grade
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Caustic Soda	500 Kg	Industrial
Hydrochloric Acid (HCL)	500 Litre	Chemical

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Phone: +91-944-702-0652

Location: Calicut, Kerela

Product Name	Qty	Grade
Boric acid		
Potassium permangnate		
Potassium iodide		
Iodine		
Light liquid paraffin		
Heavy liquid paraffin		
Petroleum jelly		
Turpentine oil		
Castor oil		
Glycerine		
Zinc oxide		
Magnesium sulphate		
Copper sulphate		

Details :

Tajinder Goyal

Softex Surgical

Email : Tajinder.goyal@gmail.com

Ph: +91-980-555-6667

Product Name	Qty	Grade
AMANTADINE HCL	1400 KGS	
NITRIC ACID	1400 KGS	
N-BUTANOL	2500 KGS	

Details : Please share the best commercial price of below mention material with terms and condition.

Note: pls send me COA of all the products to technical verify and expedite procurement procedure.

Elixirpharma (www.elixirpharma.in)

Nikhil Panchal

Plot No. 164/A, Phase - II, GIDC,

Naroda, Ahmedabad - 382 330, GUJARAT.

Email: purchase@elixirpharma.in

Tel: + 91-79-22811986 Ext. : # 314

+ 91-7600010366 Ext. : # 314

Mobile: +91-98201-20633

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Product Name	Qty	Grade
Glycerine Terpinol	1 Tonnes	Industrial
Details : Sanjay Rokad Shreeji Enterprise Ankleshwar, Gujarat, India Email : rokadsanjay@yahoo.com Mobile : +91-701-615-0012		

Product Name	Qty	Grade
Acetic Acid	Tanker	
Details : Dinesh Gupta HARESH ENTERPRISES (Wholeseller) Email: setuenter@yahoo.co.in Mobile: +91-9824200441		

Product Name	Qty	Grade
Ammonium Sulphate pure white		
Details : Manish SM Dharani Chem Pvt Ltd(Manufacturer) Email : manish@smdcpl.in Mobile : 9879408765		

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
Potassium Carbonate Granular	750 Kgs	Industrial
Sodium Nitrate	1500 Kgs	
Caustic Soda Flakes	2000 Kgs	
Details : Require following grade Caustic - GACL Ray- on Grade Potassium Carbonate - Equal to UBID Korea Mr. Utpal Shah Mumbai, Maharashtra, India Email : utpal@jayeshgroup.com Tel.: 9820144091		

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

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 Vadhada NewCera Minechem (Manufacturer) Email : newceraminechem62@yahoo.com Mobile : +91-9429460123		

Product Name	Qty	Grade
3-(2-Ethyhexyloxy) Propylamine. CAS NO : 5397-31-9	5 Tonnes	Chemical
Details : Need this 5 Tonnes. Raj Shah NASSOLKEM, BUL BUL (Manufacturer) Email : natchem@gmail.com Mobile : 7069039335		



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

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	
Dimethylsuccinyllo 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
Silica Sand	500 Tonnes	Industrial
Details : Mr. Haroun Mousa Dammam Mobile: 00966566663350 Email : haroonmousa69@gmail.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		

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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		

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Product Name	Qty	Grade
Alfa Napthols		
Diethyl Meta Toluidine		
2 Nitro Di Methyl Terephthalate		
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, Dariyasthan 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



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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		
Industrial 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
Diffubenzurone	250 Kg 500 Kg	

Details :

CHANDRESH HAPANI

ANIMED (Distributor)

Email : animed6@yahoo.co.in

Mobile : 9830175616



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Product Name	Qty	Grade
Sulphur Powder		
Sulphur Roll		
Details : we are manufacturers 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		
Emulsifier		
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		



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It's not over yet!

For a while everyone thought that the Covid19 pandemic is over. However, no one had ever imagined that once the pandemic is over, there will be a world war like situations. The logistics were still being figured out and then comes the inflation, the chances of recession and the war situation in Europe.

The last 4 weeks were brutal for the market and people have lost a lot of money hoping the pandemic is over and its time for the market to be back to normal. However, exact opposite has happened. Social media posts on Twitter highlights that there are some cities which are under lockdown again in China including major industrial hubs like Shenzhen and Shanghai. The case numbers are higher than those that were recorded at the beginning of the outbreak in March 2020.

Due to all these factors and beyond, food, metals and other commodities are getting costlier, which in turn might affect the spending habits of people thus leading to a recession long term. The oil prices have shot up again and this time it isn't OPEC but the attack on Ukraine and the sanctions on Russia by the west which have shot up oil prices to historic highs in the developed world. In India, Reliance has proposed increase in production in its Jamnagar plant.

The whole world in one way or the other is dependent on oil for moving from one place to another. However, all these are having a positive influence on green energy including solar, wind and hydro. To replace oil/petrol/diesel based vehicle, the Electric Vehicles are well position to make it to the top of the pyramid. Last week, US senators have sent a bipartisan letter to President Joe urging the head of state to invoke the Defense Production Act (DPA) in an effort to increase domestic production of minerals used in electric vehicle (EV) batteries – reported by Yahoo Finance. Many countries have seen adoption of EVs and some of them like Norway, Iceland and Sweden have made it to the top few countries. In Norway, an electric car owner is exempted from paying road tax and sales tax.

The most surprising thing was the negligence of the world leader to acknowledge Tesla as the American car maker and make GM and Ford the leader of EV when they produced merely 26 vehicles and Tesla produced almost a million vehicles in 2021. This has also caused a lot of commotion in the battery industry as they are an integral part of any electric vehicle. The chemicals and the raw materials used for battery manufacturing are the next big thing to see profits in the decade to come. It's not just the elements like cobalt, aluminum, nickel which will see a huge demand in the times to come. Rusal from Russia which is a major world supplier of Aluminum, tumbles due to sanctions by the west. After China, India comes second in the production of aluminum and then very close is Russia. Due to sanctions, chances are that India and China might see more demand and might see an increase in price.

Reliance Industries have already acquired Faradion, a UK startup for \$135 million and also announced yesterday about the acquisition of Lithium Werks, a company which has manufacturing facility in China for \$61 million and produces cobalt free Lithium Iron Phosphate (LFP) batteries. These will be the two acquired companies looking to advance the electric vehicle battery manufacturing. However, based on Tesla patented technology about 4680 batteries that are produced by Panasonic, there is going to be good competition with the east and west. Indian popular opinion considers Tata Motors as the leader in EVs in India which also has its own chemical company heavily invested in battery chemicals.

-Rajiv Parikh



Insights on the Butyl Acrylate Global Market to 2028 - Featuring Mitsubishi Chemical, Indenta Chemicals and TCI Chemicals Among Others

DUBLIN, Feb. 24, 2022 /PRNewswire/ -- The "Butyl Acrylate Market Forecast to 2028 - COVID-19 Impact and Global Analysis" report has been added to ResearchAndMarkets.com's offering.

The market is projected to reach \$4,608.06 million by 2028 from \$3,356.74 million in 2021; it is expected to register a CAGR of 4.6% from 2021 to 2028.

Growing investment in the building & construction sector and increasing sales of the automotive industry are the key factors attributed to the growth of the butyl acrylate market over the forecast period. In addition, the rise in the need for water-based coatings is augmenting the market growth over the forecast period.

Based on application, the butyl acrylate market is segmented into paints and coatings, adhesives and sealants, chemical synthesis, plastic additives, textiles,

and others. The paints and coatings segment is anticipated to grow, owing to the growing investment in automotive and building & construction industries. The growth of the adhesives and sealants segment is attributed to its broad scope of application in the automotive industry for heat exchanger sealing, core plug sealing, automotive hose bonding, and filter end cap bonding. It is also used in the electronic industry for various applications such as switches and relays, potting and sealing electrical components, sensors, and bonding electric motors.

The butyl acrylate market in Asia Pacific is expected to grow at the highest CAGR during the forecast period. Asia Pacific countries such as Australia, China, India, and Japan have many manufacturing industries, including automotive, building & construction, paper & pulp, and textile. China is the largest consumer of butyl acrylate, owing to the increasing usage of paints, coatings, sealants, and adhesives from the building and construction industry. The growth of

the butyl acrylate market in APAC can be attributed to the rising investment in building and construction projects, including smart cities, sustainable infrastructure, and commercial complexes in India, China, and Japan.

The key players operating in the global Butyl Acrylate market include EXXON MOBIL CORPORATION; Arkema; Mitsubishi Chemical Corporation; OSWAL UDHYOG; NIPPON SHOKUBAI CO., LTD.; Indenta Chemicals Pvt. Ltd.; TCI Chemicals Pvt. Ltd.; Wanhua Chemical Group Co., Ltd.; Lyondell-Basell Industries Holdings B.V.; and Sasol.

Read the full report : press@research-andmarkets.com

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Sound Agriculture Launches Program to Remove the Risk Associated with Fertilizer Reduction

EMERYVILLE, Calif., Feb. 24, 2022 /PRNewswire/ -- Sound Agriculture has launched a nitrogen reduction pilot program to replace up to 700,000 units of nitrogen, or 3.4 million units of CO₂, across 25,000 acres of fields throughout the U.S. The program was developed to eliminate the financial risk associated

with using less synthetic fertilizer by underwriting the risk of lost yield. It is another step towards achieving the company's goal of reducing 30% of global nitrogen fertilizer—the equivalent of removing 200 million cars from the road.

Nitrogen is essential for crop devel-

opment, but is often overapplied with 30-50% going unused by the crop. The excess has significant environmental consequences, resulting in runoff and volatilization that negatively impacts the quality of water, air and soil. Sound Agriculture's flagship product, SOURCE®, uses patented technology to activate



microbes in the soil that unlock existing nutrients through nitrogen fixation and phosphate solubilization. Growers can target a yield increase of 5-10 bushels per acre or a nitrogen reduction of 25-50 lbs per acre in corn, depending on how they want to use it.

"Growers are interested in implementing more sustainable practices, but financial risk is a barrier," said Adam Litle, CEO, Sound Agriculture. "Even with record highs in fertilizer prices, growers are still reluctant to reduce nitrogen at \$6 per bushel for corn. Because we're confident SOURCE can maintain or grow yields even with reduced nitrogen, we're introducing this program to remove all of the risk. To our knowledge it's the first time a private company has offered an unlimited yield risk guarantee. We think

the results are going to be excellent for growers' operations, their soil and water quality, and climate change at large."

Growers who participate in the pilot will work closely with a Sound Agriculture agronomist to develop a nitrogen reduction plan specific to their farm. Using the company's Performance Optimizer, key soil characteristics and other data points will be used to identify fields where SOURCE in combination with nitrogen reduction will perform best. Growers will save money on fertilizer prices, which have risen by 100-300% over the past year, increase soil microbial activity, reduce nitrogen loss, and in many cases may see an increase in yield.

"The combination of rising fertilizer prices and the desire to impart more

on-farm stewardship practices piqued my interest in this program," said Kasey Bamberger, Partner, Bryant Agricultural Enterprise. "As part of a family-run farm in Ohio, finding ways to reduce nitrogen to improve the health of our soil and the environment, without reducing our bottom line, is always a top priority. I had great results with SOURCE last year and am eager to participate in the pilot. I don't know of other companies removing the financial risk for this type of change, and it makes the decision to move forward much easier."

Read the full report : www.sound.ag

If you want your report abstract to be published please contact Info@dyeschemicalmarket.com

The Masterbatch Market would surpass USD 14.89 billion valuation by 2028, Says Global Market Insights Inc.

SELBYVILLE, Del., Feb. 24, 2022 / SPNNewswire/ -- According to the latest report by Global Market Insights Inc., the Masterbatch Market was estimated at USD 10.3 billion in 2021 and is poised to be valued at about USD 14.89 billion by 2028, registering with a CAGR of 5.5% from 2022 to 2028. The research report gives a detailed assessment of market size & estimations, top winning strategies, competitive scenario, drivers & opportunities, wavering market trends, and major investment pockets.

A masterbatch refers to a plastics formulation that consists of additives, which are vital for the performance and appearance of the final product. Numerous manufacturers across the globe offer specialty masterbatch products based on the requirements of different industries. Rising usage of masterbatch in the production of polymer auto parts has

improved product adoption in automotive applications.

Prevalent construction activities would promote the demand for insulation, pipes, office furniture, window frame, and other applications in commercial buildings, which is likely to positively influence the product landscape in the upcoming years. In addition, booming demand for lightweight vehicles would increase the usage of plastics, which is foreseen to further augment the masterbatch market growth through the forecast period.

Black masterbatches are the most used product category in the plastics industry. They have gained massive popularity for their ultraviolet light stability, electrical conductivity, heat dissipation, resistance to high temperatures, and uniform distribution with high jetness. They also

find usage in the production of several automotive components, packaging boxes, and construction materials, such as pipes and cables, among others. Additionally, they are utilized in the agricultural industry for manufacturing agricultural mulch films. Growing construction and automotive sectors are likely to propel demand for black masterbatch in the coming years. Driven by these factors, the black masterbatches segment is expected to witness considerable growth to account for more than 5.6% share by the end of 2028.

Read the full report : <https://www.gminsights.com/request-sample/detail/2362>

If you want your report abstract to be published please contact Info@dyeschemicalmarket.com



Wacker Chemical Corporation joins national scholarship initiative to increase diversity, equity and inclusion in the chemical industry

ADRIAN, Mich., Feb. 24, 2022 / PRNewswire/ -- Wacker Chemical Corporation (WCC) today announced its participation in the Future of STEM Scholars Initiative (FOSSI), the chemical industry's collaborative equity, diversity, and inclusion initiative aimed at creating pathways for more under-represented groups to enter and succeed in science, technology, engineering and math (STEM) careers in the chemical industry.

FOSSI provides four-year scholarships to incoming college freshman graduating high school students planning to major in STEM fields at Historically Black Colleges and Universities (HBCUs) around the nation. The program helps grow a more diverse pipeline of

future workforce talent by removing financial barriers to college education for students in historically under-represented groups. Begun in 2020, FOSSI has an ambitious goal of supporting 1,000 scholars through 2025, and WACKER is excited to contribute to this journey.

"WACKER is pleased to support FOSSI's vision to generously support talented young STEM students and get them prepared for futures within the chemical industry," said WCC President and CEO David Wilhoit. "The program is a

complement to the work we are doing to increase diversity, equity and inclusion in our current and future workforce."

"FOSSI brings together the industry's collective might to make a significant impact on the future of the industry," said FOSSI Chief Development Officer Lisa Lanzkowsky. "We are thrilled to have WACKER's support in this important initiative and look forward to working with their team to create opportunities and pathways for success for these deserving scholars."

Source : PRNewswire

Albemarle Corporation Appoints Ralf Cramer to Board of Directors

CHARLOTTE, N.C., Feb. 24, 2022 / PRNewswire/ -- Albemarle Corporation (NYSE: ALB), a leader in the global specialty chemicals industry, announced that its Board of Directors (the "Board") has appointed Ralf H. Cramer to the Board, effective February 21, 2022. Cramer will serve as a member of the Board's Audit & Finance Committee and Health, Safety & Environment Committee.

"Ralf brings a wide range of experience from the automotive industry, manufacturing operations, and emerging

markets to our Board of Directors," said Albemarle Chairman and CEO Kent Masters. "We welcome his skill set to our Board and are confident his years of leadership experience will add significant value to Albemarle and our shareholders."

Cramer has more than 25 years of automotive industry experience. He served as an Executive Board Member of Continental

AG, an automotive parts manufacturing company, from 2009 to 2017, where he previously served as President and CEO of Continental China, President of Continental Chassis & Safety/ADAS, Member of the Executive Board of Continental Automotive

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DOW DEMONSTRATES TECHNOLOGY LEADERSHIP FOR THE AUTOMOTIVE INDUSTRY WITH JAGUAR TCS RACING

- Dow and Jaguar TCS Racing move forward with electric vehicle innovation for the Formula E circuit to make more sustainable mobility a reality.
- The ABB FIA Formula E World Championship hits the track for round 3 in Mexico February 12th at the Autodromo Hermanos Rodriguez.

Mexico City, February 16, 2022 - In the framework of a Formula E race to be held in Mexico City this month, Dow (NYSE: DOW), through its new MobilityScience™ platform, is bringing its expertise in application development and technical integration to demonstrate its leadership in e-mobility through a strategic partnership with Jaguar TCS Racing.

Dow became a partner of Jaguar TCS Racing in 2020 and their Official Materials Science Partner in 2021. Since then, the two teams have been identifying solutions and innovating technologies that will help the Jaguar I-TYPE 5 electric racecar perform better, faster, for longer. And last year, the team experienced their best finish yet when Mitch Evans went into the first place, showcasing the power of great partnerships.

“The real crux of this partnership for Dow is our MobilityScience™ platform, which allows us to bring value through our 125 years of material science expertise” says Veronica Perez, Dow North

Region of Latin American President. “In a country that is the world’s sixth larg-



est automotive vehicle manufacturer, we are uniquely positioned, through creative partnerships like this one, to help solve and even lead through the most tenacious challenges of our time, like vehicle electrification.”

Dow MobilityScience™ is advancing electric vehicle innovation not only for the Formula E circuit but also off the track as well, by helping Jaguar advance its electrification strategy. Jaguar is using learnings and technology transfer from Formula E to help ‘Reimagine’ the Jaguar brand as an all-electric luxury brand from 2025.

“Over the past year, Dow and Jaguar TCS Racing team engineers have been working together day in and day out to innovate products that can help deliver performance on the track and off. Thanks to this collaboration, in highly competitive international motorsport, we’re on the front-lines of researching, developing, and testing the critical solutions that will realize tangible benefits to electric mobility, from lightweighting and energy

efficiency to sustainability,” concluded James Barclay, Jaguar TCS Racing Team Principal.

The upcoming race in Mexico City is known for its high heat and high altitude, with the track at 2,250 meters above sea level. This extreme environment presents a unique opportunity to test the effectiveness of key areas of vehicle performance like thermal management. During Round 3, Dow thermal interface materials will be hard at work optimizing thermal performance, efficiency and durability.

Together with partners like Dow, Jaguar TCS Racing hopes to have another record-breaking season – and strong points finish at Round 3’s Autodromo Hermanos Rodriguez racetrack in Mexico City on February 12th 2022.

Source : Dow

TOYOTA TO PROVIDE BZ4X CUSTOMERS WITH DC FAST CHARGER ACCESS THROUGH EVGO

PLANO, Texas, Feb. 24, 2022 / PRNewswire/ -- When the 2023 Toyota bZ4X battery electric SUV arrives at dealers later this year, it will come with more than just stylish looks and emissions-free utility. The all-new EV will also mark the start of a collaboration between Toyota Motor North America, Inc. (Toyota) and EVgo to provide new bZ4X customers with on-the-go access to DC fast charging stations. EVgo's high-powered chargers provide EV drivers both flexibility and convenience to quickly charge at prime locations,



such as frequently visited grocery stores, shopping centers, and central downtown areas, allowing drivers to travel and charge with minimal downtime and aligning with their break, shopping, eating, or errand time

Customers who purchase or lease a new 2023 Toyota bZ4X will get one year of unlimited complimentary charging at

all EVgo-owned and operated public charging stations nationwide. Customers will be able to use the Toyota App on their mobile device to sign up for this offer, locate EVgo stations and initiate complimentary charging for their new bZ4X.

"The arrival of our all-electric bZ4X marks an important step in our commitment towards electrifying 70% of our fleet by 2030. We want our bZ4X customers to enjoy a high-quality ownership experience that is as seamless and worry-free as possible," said Christopher Yang, Vice President, EV Charging Solutions, Toyota Motor North America. "Collaborating with EVgo, the nation's largest public fast charging network, will help provide bZ4X owners with access to a fast, reliable charge where and when they need it."



With more than 800 DC fast charging locations and thousands of Level 2 charging stations, EVgo's charging network serves over 68 metropolitan areas across 35 states. The EVgo network is powered by 100% renewable energy.

"EVgo is thrilled to collaborate with Toyota on bringing accessible and convenient fast charging to new EV drivers with the bZ4X," said Jonathan Levy, EVgo Chief Commercial Officer. "Toyota's scale and EVgo's track record of leadership in clean

transportation will help make it easier for even more drivers to go electric."

When it goes on sale in the spring of 2022, the 2023 Toyota bZ4X will offer consumers a battery-electric option that combines Toyota's legendary reputation for quality and reliability with the performance and practicality they expect in a modern SUV.

"This is just the beginning of Toyota's next-generation battery electric vehicle products that will join our existing portfolio of electrified vehicle options and will drive our progress toward carbon neutrality," said Yang."

Source : PRNewswire

DSM ENGINEERING MATERIALS STRENGTHENS MARKET-LEADING POSITION IN EV AND E AND E HIGH-GROWTH INDUSTRIES WITH PRODUCTION EXPANSION IN CHINA

Heerlen/Geleen (NL), 24 February 2022 - DSM Engineering Materials today announces the expansion of its high-performance materials production capacity at its Jiangyin plant in Jiangsu Province, China. Work on an additional compounding line began in February 2022, with completion expected in 2023. The new line will help DSM to meet growing demand for high-performance polymers used in a wide range of end-applications – particularly for electric vehicles and in electrics, and electronics – and will help drive the shift to a low-carbon, circular economy.

In recent years, rising living standards and increasingly ambitious environmental policies have driven demand for sustainable high-performance materials in China. Supplying the automotive, electrics, and electronics markets, China's specialty engineering materials industry continues to show a healthy growth rate. The new state-of-the-art compounding line will help meet this demand for high-performance specialty materials such as Akulon® PA6/PA66, Arnite® PET/PBT, Arnitel® TPC, Eco-PaXX® PA410, ForTii® PA4T/PPA and Stanyl® PA46.

The strong sustainability credentials of the new facility underline DSM's commitment to shaping a better world for people and planet. In addition to increasing production capacity for materials enabling sustainable solutions, the expansion project will deliver no increase in greenhouse gas (GHG) emissions upon start-up and will be powered by 100% Renewable Electricity. This aligns with the sustainabil-



ity commitments of DSM Engineering Materials, which include halving its global GHG emissions and launching bio- and/or recycled-based alternatives for its whole portfolio by 2030. The Jiangyin site is already a frontrunner in sustainable manufacturing, using self-generated solar power and sourced renewable electricity to produce high-performance materials.

Caroline Mitterlehner, Vice President Specialties DSM Engineering Materials, commented: "China is an important and fast-growing country for DSM Engineering Materials. As such, we aim to strengthen our business partnerships by continuing to invest in key areas of sustainable growth. The Jiangyin site's new compounding line enables us to further expand our specialty materials offering for customers in China, supporting their growing demand for sustainable electrics, electronics, and automotive products."

Jason Zhang, Vice President Performance Polymers and General Manager China for DSM Engineering Materials, commented: "Our new production line in Jiangyin is a key milestone for DSM, underlining our commitment to supporting our customers, enabling sustainable living, and seizing growth opportunities in China. Together with our customers, we are ready to take the next important steps in our sustainability journey, drive the shift to a low-carbon, circular economy, and create brighter lives for all!"

Source : Chemical Market

UMICORE INTRODUCES NEW GENERATION LI-ION BATTERY RECYCLING TECHNOLOGIES AND ANNOUNCES AWARD WITH ACC

Umicore announces the signing of an agreement with Automotive Cells Company (ACC) on battery recycling services for the needs of ACC pilot plant in Nersac, France.

Umicore is a pioneer in the recycling of rechargeable batteries and its battery recycling plant in Hoboken, Belgium, has an annual capacity of 7.000 tons of lithium-ion (Li-ion) batteries and battery production scrap, the equivalent of 35,000 electric vehicle (EV) batteries.

The plant has started operations already in 2011 to treat portable electronics batteries and the first generations of EV batteries. Ever since, its processes and underlying recycling technologies have continuously improved and today reflect the combined know-how gains that Umicore has made during more than one decade of Li-ion battery recycling.

In the course of 2022, Umicore will introduce the latest generation of its proprietary recycling technology. After intensive research and piloting activities, this process is a significant step-up in recycling performance with an optimized operating window for EV batteries, demonstrating:

- o Significantly improved metallurgical process with increased extraction efficiency of cobalt, nickel and copper to now reach over 95% yield for a

wide variety of battery chemistries.

- o First-of-its-kind technology to recover most of the lithium, solving a key constraint of today's existing recycling flowsheets.
- o Automated material flow minimizing manual handling to further increase process robustness and efficiency.

The recovered metals will be delivered in battery-grade quality at the end of the Umicore recycling process allowing them to be re-circulated into the production of new Li-ion batteries.

This newest generation technology will be available for the market in 2022, and ensures minimal waste and impact on the environment, which will be vital for the surge in EV car adoption.

ACC will benefit from this technology through the announced partnership, underlining the importance of a European supply chain for the success of car electrification in the region.

Source : Umicore



SK ON TO CERTIFY THE BATTERY PRICE OF USED CARS BY COOPERATING WITH K CAR, KOREA'S LARGEST DIRECTLY-OPERATED USED CAR PLATFORM COMPANY

On Feb 24 (KST), at SK Seorin Building in Seoul, Korea, SK On signed a business agreement with K Car, Korea's largest directly-operated used car plat-



form, to certify the remaining battery life and scrap value of used electric vehicles (EVs) that K Car deals.

The price of used EVs is determined by its remaining battery life as batteries account for about half of the vehicles' price. Until now, it has been difficult to calculate the price due to a lack of objective measuring standards. By SK On providing a clear standard on the "value" of the batteries, consumers can now purchase used EVs that K Car sells with a reliable standard.

Early last year, SK On developed the BaaS Ai (Battery as a Service Artificial Intelligence) that can analyze a battery's status, its life, scrap value as well as detect abnormalities in advance. Through this technology, starting from measuring and analyzing the battery status of EVs operated by SK Car Rental last April, SK On launched a battery diagnosis service for customers who use EV Infra, the EV charging application in November. SK On has enhanced the measuring accuracy by analyzing a mass amount of data of batteries applied to EVs driving in the actual road environment. SK On is preemptively securing the battery diagnosis technology and expanding its business cooperation because those are the fundamentals and starting point of the BaaS business, which encompasses various services utilizing batteries.

In the BaaS industry, it is essential to assess the scrap value of the batteries because pricing used cars and trading become possible only after knowing the remaining battery life. Furthermore, after sorting out batteries with insufficient battery life, it will become possible to judge whether to re-use them as Energy Storage System (ESS) or scrap them can by scrap value assessment. In other words, diverse business models can emerge from the battery diagnosis service.

"Beyond producing innovative battery products, through the market-leading battery diagnosis technology, we would

like to contribute to establishing a BaaS ecosystem that can realize a virtuous resource circulation," said Jeong Woo-seong, Head of e-Mobility Business Office, SK On.

Source : SKInnovation

ASHOK LEYLAND LAUNCHES AVTR 4825 10X2 TIPPER WITH TANDEM DUMMY AXLE

Chennai, February 4, 2022: Ashok Leyland, flagship company of the Hinduja group and India's leading commercial vehicle manufacturer, today unveiled the AVTR 4825 10x2 Tipper with NRS suspension and Tandem dummy axle.

The AVTR 4825 10X2 NRS with Tandem dummy axle tipper is powered by 250HP A4 Series Engine with i-Gen6 technology, delivering superior engine performance and durability. The innovative, intelligent and indigenous i-Gen6 technology with its unique Mid-NOx strategy, ensures significant reduction in DEF consumption, leading to lower cost of operation and superior profitability.

AVTR 4825 10x2 tipper is fitted with heavy-duty 9-speed gearbox for higher durability, 12.5T dual tyre lift axle (DTLA) with patented parallelogram technology for better tyre life and Heavy-duty Rear axle with Tandem Dummy in the rear. The new generation air-brakes with ABS and ASA, spacious Crash Code compliant Sleeper Cabin (with optional Air-conditioning) with full metal front jacket; enhances the ease of driving and bolsters safety.

Speaking on the occasion Mr. Sanjeev Kumar, Head MHCV, Ashok Leyland said, "AVTR is the India's first modular truck platform range offering the entire gamut of 19 to 55 ton GVW truck range. After launch of 4825 in

10x4, it is now made available in 10x2 for surface application for better TAT and fluid efficiency. With the boom of infrastructural developments in India, there is a surge in demand for the transportation of construction and mining materials across industries. The AVTR 4825 10x2 Tipper, fitted with 29cum Box Body, also available in varied body capacities, is suitable to carry Coal, Infrastructure and Road construction aggregates over longer distances and rough terrains."

The AVTR 4825 10x2 Tipper provides excellent drivability, fuel efficiency, reliability and faster turnaround time, along with the following numerous features:

- Built on the latest AVTR modular truck platform, offering flexibility of multiple aggregate and feature options
- Ashok Leyland's iGen6 technology A4 Series 250 HP Engine delivering 900 Nm flat Torque for better fluid efficiency
- Cable Gear shift, Air assisted clutch pedal, Integrated ABC pedal and Parabolic suspension for superior drivability and ride comfort
- Heavy duty Non-Reactive suspension at Rear
- Heavy duty rear axles with hypoid gear CWP and tandem dummy axle
- N cabin offering ultimate driving experience with suspended cab with dampers, suspended driver seat, Anti-roll bar in the front, excellent storage spaces, Full Metal Front Facia, AC options.
- Heavy duty Four stage Hydraulic FE Tipping cylinder for ease of tipping
- Anti-roll bar and Anti toppling sensor for higher safety during loading & unloading
- It comes bundled with digital solutions like i-Alert (advanced telematics) & remote diagnostics – supported by 24x7 customer assistance Uptime Solution Centre

Source: Ashok Layland



ASAHI KASEI MEDICAL TO BUILD NEW ASSEMBLY PLANT FOR PLANOVA™ FILTERS

Asahi Kasei Medical has decided to expand the production capacity of Planova™ filters by constructing a new assembly plant in Nobeoka, Miyazaki, Japan. The new plant will be designed to realize a smart factory by accelerating manufacturing automation and digital transformation in order to enhance quality and production efficiency. The construction is scheduled to begin in the third quarter of the calendar year 2022, with expected completion in early 2024.



The COVID-19 pandemic has triggered the rapid growth of the biopharmaceuticals market and increased the urgent demand for Planova™ filters, which are indispensable to develop and commercially produce new drugs in pharmaceutical companies. Asahi Kasei Medical has been making significant milestones in expanding production capacity to meet such demands. This new assembly plant follows the investment announced in 2021 for the expansion of the spinning plant for Planova™ BioEX in Oita, Japan. As for the Planova™ N series filter, all six existing plants, including the spinning plant completed in 2019 in Miyazaki, Japan, have been operating efficiently to meet the increasing demand worldwide.

Asahi Kasei Medical is the global market leader in virus filtration, with its Planova™ filters having an unrivaled 30-year history of trusted use in the production of biopharmaceuticals. Asahi

Kasei Medical aims to provide "Assurance Beyond Expectation" in the form of innovative yet exceptionally reliable bioprocess consumables, equipment, scientific support, and biosafety testing services to help biologics manufacturers safely and efficiently produce medicines that patients can trust.

Asahi Kasei Medical will continue to reinforce its global supply infrastructure for Planova™ through proactive investments in manufacturing facilities in order to support the early provision of vaccines and life-saving therapies to as many people as possible.

Source : Asahi Kasei

NORTHWEST BIOTHERAPEUTICS ANNOUNCES COMMENCEMENT OF CANCER VACCINE PRODUCTION AT ITS SAWSTON, UK FACILITY

Northwest Biotherapeutic, a biotechnology company developing DCVax® personalized immune therapies for solid tumor cancers, announced commencement of production of its first dendritic cell cancer vaccine for a compassionate use patient at its recently licensed production facility in Sawston, UK.

This milestone follows approval by the UK Medicines and Healthcare Products Regulatory Agency (MHRA) of a license for manufacture of GMP (clinical grade)

cell therapy products at its Sawston, UK facility for compassionate use cases, and approval by the Human Tissue Authority (HTA) of a license for collection and processing of human cells and tissues for medical purposes. Under this regulatory program in the UK, the vaccine is identified as ADCV ("Autologous Dendritic Cell Vaccine").

As previously reported, the MHRA license was received in December of 2021, following nearly two years of preparations. This included hiring and training of technical staff, preparation of approximately 1,000 regulatory documents (including Standard Operating Procedure documents and others), validation of facilities, equipment and protocols, and practice manufacturing cycles. This was followed by a review and detailed inspection by the MHRA.

Since the issuance of the MHRA license, Advent Bioservices, NW Bio's contract manufacturer in the UK, has been conducting the required post-approval re-validations and testing so that the facility is now ready for the manufacture of cell therapy products for clinical use. Accordingly, the first vaccine production for compassionate use treatment for a glioblastoma patient has now begun in the Sawston facility.

The Company anticipates that Phase 1A of the Sawston facility will have the capacity to produce cancer vaccines for 450-500 patients per year. The Company plans to continue developing the Sawston facility in phases, both to calibrate the capital expenditures with the capacity needed and to leave room for implementation of new technologies such as the Flaskworks system.

Source : World pharma today

BIOHAVEN ACQUIRES KV7 ION CHANNEL



PLATFORM FOR THE TREATMENT OF EPILEPSY AND OTHER NEUROLOGIC DISORDERS FROM CHANNEL BIOSCIENCES, A SUBSIDIARY OF KNOPP BIOSCIENCES

NEW HAVEN, Conn., Feb. 25, 2022 / PRNewswire/ -- Biohaven Pharmaceutical Holding Company Ltd. (NYSE: BHVN; the "Company" or "Biohaven") announced today that it has entered into a definitive agreement to acquire Channel Biosciences, LLC, a subsidiary of Knopp Biosciences LLC, and its Kv7 channel targeting platform – adding the latest advances in ion-channel modulation to Biohaven's growing neuroscience portfolio. The Kv7 platform has been developed and refined for over a decade by a team with deep experience in ion channel science led by Michael Bozik, M.D., and Steven Dworetzky, Ph.D. Both leaders, along with members of their scientific team, are anticipated to join Biohaven as part of the transaction, further bolstering the discovery and translational expertise at Biohaven Labs. The lead asset, BHV-7000 (formerly known as KB-3061), is a potent activator of Kv7.2/Kv7.3, key subunits involved in neuronal signaling and in regulating the hyperexcitable state in epilepsy. The acquisition of BHV-7000 and the Kv7 channel-targeting series demonstrates Biohaven's continued commitment to neurology and to meeting the unmet needs of these patients. Biohaven intends to bring BHV-7000 to the clinic in 2022, with focal epilepsy as the lead indication for development.

Vlad Coric, M.D., Chief Executive Officer and Chairman of the Board of Bio-

haven, stated, "With this transaction, we have added one of the most innovative and exciting therapeutic targets for epilepsy to Biohaven's portfolio. This technology platform is poised to deliver new treatment options for patients suffering from epilepsy and, if ultimately approved, will be synergistic with our existing commercial sales force already calling upon neurologists who also may treat patients with seizures. We are excited to welcome Mike, Steven and members of the Kv7 team into the Biohaven family and look forward to working with them to accelerate this platform to benefit patients."

Michael Bozik, M.D., Chief Executive Officer of Channel Biosciences and its parent, Knopp Biosciences, commented, "Kv7 modulators have demonstrated clear efficacy in the clinic but have been limited by off-target effects. Our team has developed a portfolio of what we believe are potentially best-in-class Kv7 modulators to deliver novel therapies across several different indications. We are proud that Biohaven recognizes the potential of this platform—Biohaven was the clear partner of choice, given their demonstrated leadership in neurology and excellence in both developing and commercializing paradigm-shifting treatments for patients."

Epilepsy affects approximately 3.5 million Americans, or more than 1.2% of adults and 0.6% of children, and more than 50 million patients worldwide, according to the World Health Organization. It is the fourth most common neurological disorder, and many patients struggle to achieve seizure freedom, with more than a third of patients requiring two or more medications to manage their epilepsy. While the use of anti-seizure medications is often accompanied by dose-limiting side effects, BHV-7000 is specifically designed to target potassium channels without engagement of GABA receptors. The lack of GABA activity potentially gives BHV-7000 a wide therapeutic window and is expected to

result in an improved side effect profile, limiting the somnolence and fatigue so often seen in patients receiving anti-seizure medications. By adding BHV-7000 to its pipeline, Biohaven aims to bring this novel potassium channel modulator as a solution to patients who remain uncontrolled on their current regimen.

Irfan Qureshi, M.D., Vice President of Neurology at Biohaven, commented, "The Kv7 channel platform is highly complementary to Biohaven's existing neurology pipeline and expands our potential to serve patients. We know Kv7 is a clinically validated target for focal epilepsy, and BHV-7000's unique profile is particularly exciting. Preclinical data suggest it offers the potential for significant reductions in seizure frequency without the troublesome side effects associated with other anti-seizure medications."

Members of the Channel Biosciences' scientific team will join and complement the discovery expertise at Biohaven Labs, adding world-leading ion channel scientists and driving its mission for bringing novel medicines to patients facing neurologic and neuropsychiatric diseases. This team includes CEO Dr. Bozik, a neuroscience clinician who was part of the leadership team at Bristol Myers Squibb that brought Abilify through to New Drug Approval, and Chief Scientific Officer, Steven Dworetzky, Ph.D., who cloned and discovered the KCNQ 2, 3, and 5 genes (now called Kv7.2, 7.3, and 7.5), and who has authored numerous patents and publications in this area.

Dr. Dworetzky commented, "The selection of BHV-7000 as the lead asset to enter the clinic is based upon its superior potency for Kv7.2/Kv7.3 and wide therapeutic margin compared to other compounds. We are excited to join Biohaven to accelerate clinical development of BHV-7000 and other drug candidates from our ion channel platform."

Source : PRNewswire



A NEW SEGMENT, GWM FOCUSES ON THE HYDROGEN ENERGY R&D

BAODING, China, Feb. 24, 2022 / PRNewswire/ -- On January 27, 2022, GWM held the Arte. Futuro Plant Delivery Ceremony and Brand Launch Conference in Brazil, presenting the outstanding achievements of its three "Hydrogen-L.E.M.O.N. Technology" platforms and high-efficiency solutions to demonstrate the development of hydrogen energy worldwide.

At the conference, GWM highlighted the "Hydrogen-L.E.M.O.N. Technology", a full-scenario solution of "hydrogen power systems" meeting vehicle regulations. The company presented that it will set up a global hydrogen fuel cell R&D base to conduct research on fuel cell technology, and recruit and train local talents in Brazil in intelligence and clean energy to create green production.

Since 2016, GWM has already set up a world-class R&D team for hydrogen energy, fuel cell systems and vehicle technologies, and became the first Chinese auto company to join the Hydrogen Council. In fact, the company officially released the Hydrogen Energy Strategy last year aiming to build a sustainable and better society with hydrogen energy.

As the core of its Hydrogen Energy Strategy, the Hydrogen-L.E.M.O.N. Technology consists of a complete set of vehicle-mounted com-

ponents R&D system, three technology platforms and five performance advantages. Thousands of tests have shown that this vehicle-mounted components R&D system can ensure high performance, high quality and low cost. The Hydrogen Engine(HE), Hydrogen Stack(HS) and Hydrogen Power(HP) platforms have guaranteed GWM's overall leadership in hydrogen energy. Taking HP platform as an example, the overall weight of its cylinder valve and pressure release valve is only one-third of that of mainstream prod-



ucts in the market, and the hydrogen leakage rate is also far less than

that specified by the global standard. Based on Hydrogen-L.E.M.O.N. Technology, all GWM hydrogen energy products have the high performances in power (>200kW), efficiency (>60%), temperature (>100°C), durability (>20,000 hours) and connectivity (new energy +

smart connectivity).

Currently, the GWM hydrogen energy project has achieved initial success. In August 2021, GWM was the first in the world to complete the application of 100 49-ton hydrogen-powered heavy-duty trucks. These trucks were equipped with a 100 kW high-power fuel cell system independently developed by GWM. The fuel cell system made it possible for the trucks to meet the high-performance requirement of low-temperature ignition at -30°C and serve in various complex operating conditions.

GWM has invested a total of CNY 2 billion in the hydrogen energy R&D sector, planning to invest another CNY 3 billion in the next three years to reach the production capacity of 10,000 sets. At the global launch of its Hydrogen Energy Strategy, the company expressed its vision to keep the top level among the global hydrogen energy market share by 2025.

Source : PRNewswire

ARKEMA FINALIZES THE ACQUISITION OF ASHLAND'S PERFORMANCE ADHESIVES BUSINESS

Arkema finalized on 28 February 2022 the acquisition of Ashland's Performance Adhesives business, a first-class leader in high performance adhesives in the United States. This operation marks a major step in Arkema's strengthening of its Adhesive Solutions segment, and fully aligns with the Group's strategy to become a pure Specialty Materials player by 2024.



With its wide range of key technologies and well-known brands, Ashland Performance Adhesives is a major player in pressure-sensitive adhesives, in particular in decorative, protection, and signage films for automotive and buildings. It also holds leading positions in structural adhesives, and offers an extensive range of adhesives for flexible packaging.

This activity, which employs approximately 330 people and operates 6 production plants, mainly in North America, generated estimated sales of around US\$360 million in 2021 (1) and an EBITDA margin above 25% (1). It offers excellent commercial, technological and geographic complementarities with Bostik, allowing it to expand its solutions offering and position itself as a major player in high performance industrial adhesives.

This operation is based on a US\$1,650 million enterprise value, i.e. 8.7x the 2026 EBITDA after taking into account the expected growth in the coming years and the synergies evaluated at 12.5% of sales. A key milestone in its strong long-term growth ambition, this acquisition now allows Bostik to aim for an EBITDA margin above 17% by 2024.

We are very happy to welcome Ashland Performance Adhesives' teams within Arkema. I am convinced that Bostik will benefit from this deal to accelerate its development in attractive and high-growth applications. Our strengthened Adhesive Solutions segment will play a key role in implementing our ambition to be a leader in innovative materials for a more sustainable world" Thierry Le Hénaff, Arkema's Chairman And Chief Executive Officer

Source : Arkema

JOINT STUDY PROPOSAL SELECTED

BY NEW ENERGY AND INDUSTRIAL TECHNOLOGY DEVELOPMENT ORGANIZATION FOR THE DEVELOPMENT OF TECHNOLOGY FOR PRODUCING RAW MATERIALS FOR PLASTICS USING CO2

February 18, 2022 Tokyo, Japan—Tosoh Corporation managed the parties involved in a joint proposal selected by Japan's New Energy and Industrial Technology Development Organization (NEDO). That proposal—the "Development of Technology to Manufacture Functional Plastic Materials from CO2"—responded to NEDO's call for proposals for its "Development of Technology for Producing Raw Materials for Plastics Using CO2 and/or Other Sources." Implementation is funded by the Green Innovation Fund, R&D classification item No.3 of the "Development of Technology for Producing Functional Chemicals from CO2."

Tosoh's proposal collaborators include Mitsubishi Gas Chemical Company, Inc.; the Interdisciplinary Research Center for Catalytic Chemistry at the National Institute of Advanced Industrial Science and Technology (AIST); Professors Keiichi Tomishige and Yasuhiro Fukushima, of Tohoku University Graduate School of Engineering's Departments of Applied Chemistry and of Chemical Engineering, respectively; Professor Masazumi Tamura, of Osaka City University's Research Center for Artificial Photosynthesis; and Colcoat Co., Ltd.

These parties will now collaborate in

aiming to reduce CO2 emissions during the manufacture of polycarbonate and polyurethane by eliminating from the process the need for the conventional raw material phosgene. They will, moreover, strive to achieve technology to convert CO2 into a raw material for plastic production by 2030. Their hope is to achieve the same plastic manufacturing cost as currently while improving the functionality of the plastic produced. To those ends, they will pilot the production of several hundred to several thousand tons of plastic per year.

The Japanese government's goal of carbon neutrality by 2050 looms large in this project's efforts to develop technology to capture CO2 for use as a raw material for plastic. Using CO2 in place of phosgene as a raw material to produce dialkyl carbonate and isocyanate, the raw materials for polycarbonate and polyurethane, will reduce CO2 emissions well below those generated with phosgene. This, in turn, will reduce overall greenhouse gas (GHG) emissions in plastic production from raw material to finished product. Proposed process modifications, moreover, will improve the functionality of polycarbonate and polyurethane.

This project will also accelerate the development of manufacturing technology for functional chemicals using CO2 as a



raw material. To ensure the widespread future use of that technology, the project collaborators will conduct a life cycle assessment of the chemicals it yields.

Project partner Mitsubishi Gas Chemical Company will use CO₂ as a raw material to develop an intermediate for the polycarbonate manufacturing process that emits fewer GHGs than conventional processes. By applying

this technology to the development of high-performance polycarbonate, Mitsubishi Gas Chemical Company aims to develop and demonstrate functional chemical manufacturing technology for polycarbonates on a commercial scale toward achieving carbon neutrality by 2050.

Tosoh believes that its efforts to reduce GHG emissions in light of climate

change will lead to its medium- to long-term business growth. The company, therefore, continues to contribute to the realization of a sustainable society, promoting the development of technologies to raise energy use efficiencies; to reduce GHG emissions; and to separate, recover, and convert CO₂ for use as a raw material.

Source : Tosoh

NEW PRODUCTS

BASF LAUNCHES REGXCELLENCE® FOR PLASTIC ADDITIVES, A NEW SERVICE FOR REGULATORY EXCELLENCE

- Customized digital solutions and services in a highly regulated environment
- First service addition to the VALERAS™ brand of sustainable, value-creating plastic additives from BASF
- Leveraging on BASF's regulatory competence and experience

Ludwigshafen, Germany – February 15, 2022 – BASF launches a new service offering, RegXcellence®, for its plastic additives customers which enables targeted access to a range of global regulatory support. RegXcellence provides digital solutions and simplifies regulatory issue management with advisory support to accelerate innovation opportunities.

The regulatory landscape changes constantly. It is increasingly challenging for global businesses to navigate the com-

plex regulatory frameworks whilst remaining compliant.

“As a leading global producer of plastic additives, we leverage our extensive experience in the plastic industry and strong knowledge of product stewardship and chemical legislation to stay ahead of the evolving regulatory trends. We proactively support our customers to ensure responsible and appropriate use of our additive solutions,” says Dr. Thomas Kloster, President, Performance Chemicals, BASF. “With the extension of the successful RegXcellence service to include plastic additives, we now enable our customers to benefit from our extensive regulatory service and expertise. Together, we can mitigate business risks, accelerate innovation, and achieve sustainable growth through regulatory compliance.”

As this service expands, plastic additives customers will have access to a convenient digital solution to access regulatory documents. A global community of regulatory experts also evaluates relevant environmental, health and safety data. These experts are available

to support customers when it comes to registration services or process and substance consulting. In addition, specific regulatory trainings are offered.

BASF already offers RegXcellence services to the customers of its fuel and lubricant solutions, plasticizers, pharma solutions and human nutrition businesses.



RegXcellence for plastic additives is part of the VALERAS™ portfolio. With VALERAS, BASF is committed to increasing the sustainability of plastics along the entire polymer value chain with innovative solutions and offerings from its plastic additives business.

Source : BASF



SABIC COLLABORATES WITH CHINA'S DONGFENG TO PRODUCE LIGHTWEIGHT TRUCK-MOUNTED TOOLBOX WITH NOVEL PLASTIC COMPOSITE HYBRID SOLUTION

SABIC, a global leader in the chemical industry, today shared that it has collaborated with Dongfeng Motors, one of the largest truck manufacturers in China, on the development of a novel plastic composite hybrid solution to produce a strong lightweight truck-mounted toolbox. The application is made with a combination of SABIC's STAMAX™ resin, a long glass fiber polypropylene (PP), and continuous glass fiber composite laminate inserts via a single overmolding process. The finished part is lighter by up to 30 percent compared to a similarly designed part in steel, and use of the solution allows Dongfeng to benefit from resulting production efficiencies.

“This plastic composite solution is a great example of how SABIC helps automotive customers expand design options and simplify production so they can achieve their goals,” said Abdullah Al-Otaibi, general manager, ETP & Market Solutions, SABIC. “By combining two different materials, our solution improves both performance

and processability. Now that this composite technology is validated and in mass production with Dongfeng, we see many other automotive applications that could benefit, and we are excited to help manufacturers seize those opportunities.”

In addition to truck toolboxes, automotive applications for this hybrid solution with STAMAX resin can potentially include tailgates, seating, front-end modules and battery housings for electric vehicles.

Use of this plastic composite solution can enable manufacturers to not only reduce weight, but also lower carbon emissions, control costs through production efficiencies, and achieve higher performance.

DESIGN AND PERFORMANCE OPTIMIZATION

SABIC's hybrid solution combines STAMAX resin with thermoformed composite inserts made of unidirectional (UD) glass fiber-reinforced PP tape from China-based Qiyi Tech, a company dedicated to the development and production of continuous fiber reinforced thermoplastic composite materials.

The laminate inserts are pre-heated before being placed in the tool and overmolded with STAMAX resin in a single operation. The inserts add stiffness and strength to critical areas of the part, enabling the use of thin-wall geometries that can reduce weight.

Compared to steel, the conventional material for truck toolbox applications, SABIC's plastic composite hybrid solution expands design options, enables the consolidation of parts, and avoids secondary operations that can add costs and prevent high-volume production.

The plastic composite solution reduces the weight of the toolbox by approximately 30 percent (6 to 4 kg) without sacrificing the stiffness, toughness, or strength required for this utility application.

STAMAX resins feature 10-25 percent lower density than some competitive materials for weight-out. Their properties include high stiffness and impact strength, excellent structural performance, and easy flow for thin walls.

Source : Sabic

BASF AND CULTSPORT TAKE COMFORT TO A NEW LEVEL IN FOOTWEAR WITH ELASTOPAN®

Mumbai, India – February 28, 2022 – cultsport, India's premium sportswear brand, has launched a collection of running and training shoes with insoles made of BASF's Elastopan® PU system. When made with Elastopan, the insole is 25% lighter than similar materials yet delivers better shock absorption and up to 50% higher rebound, so consumers experience greater comfort and more power with each stride when wearing the cultsport running and training shoes.

“Our extensive research of the cult.fit fitness community in India shows that the greatest need in performance footwear is comfort and support,” said Puspen Maity, Business Head, cultsport. “Running and training shoes that provide bounce, support, and flexibility enable a comfortable workout or satisfying running session. With BASF's Elastopan in the insole of the running and training shoes, we have achieved the high level of comfort our consumers in India are looking for in their shoes.”



The materials are easy to process and enables optimal setting time which minimizes wastage.

“Our cooperation with cultsport showcases BASF’s commitment to our customers and how we have the right material to suit their requirements. We are excited to support rising industry trailblazers by bringing their innovative ideas to fruition,” said Minli Zhao, Vice President, Consumer Industry, BASF Performance Materials, Asia Pacific.

cult.fit launched cultsport, a premium sportswear brand in 2019, to deliver the latest performance-packed characteristics and great-looking sportswear for Indian fitness enthusiasts.

Source : BASF

**SUN CHEMICAL
ADVANCES
DIGITAL COLOR
INNOVATION ON ITS
PIGMENTVIEWER APP**

WITH NEW LUMINA® ROYAL SPARKLING BLUE

Tokyo, Japan – Sun Chemical, a wholly owned subsidiary of DIC Corporation, continues to build its color library with its mobile-based application, PigmentViewer App. Featuring the company’s newest launch, Lumina® Royal Sparkling Blue, a high chroma, blue-shade effect pigment with intense color, it joins the popular Lumina® Royal family of products, all of which are included in PigmentViewer App’s comprehensive color library.

PigmentViewer App is built on virtual renderings that capture the whole appearance potential of a pigment, enabling the designer to evaluate the color “panel” in a digital format. In this case, the “panel” is replaced by the smartphone or e-tablet display.

Visualization of the color from different angles may be achieved by changing the angle of the device relative to the viewer. The viewer needs only treat the device as if it were a conventional panel or sample, and with regular movement, the digital pigment application creates color travel as one would observe in a real-life physical environment.

In addition to viewing individual effect pigments from the company’s comprehensive portfolio, PigmentViewer App also offers the option to compare two pigments side by side on one screen, improving upon the traditional method of evaluating one panel at a time.

Delivering exceptional chromaticity and unmatched lightness, Lumina® Royal Sparkling Blue joins the comprehensive effect pigment portfolio of products in the PigmentViewer App. The effect pigment can be used to create vibrant new colors and styling options throughout the aqua to violet color areas.

Similar to the Lumina® Royal family’s most recent additions such as Lumina® Royal Blue Russet or Lumina® Royal Sienna, Lumina® Royal Sparkling Blue provides strong sparkle to achieve an attractive eye-catching appearance. It provides broad suitability across many applications, including automotive, industrial, and packaging

Source : DIC

MERGERS AND ACQUISITIONS

**POLYSPECTRA &
KEYLAND POLYMER
ANNOUNCE STRATEGIC
PARTNERSHIP TO 3D
PRINT CONSUMER**

BERKELEY, Calif., Feb. 24, 2022 / PRNewswire/ -- Keyland Polymer and polySpectra today announced a strategic partnership to provide UV-Max® powder coatings to COR Alpha 3D printed parts. This collaboration un-

locks a new modular approach to additive manufacturing, enabling the direct digital fabrication of end-use polymer components for a wide variety of applications.

"The promise of 3D printing has always been to help innovators to quickly and efficiently make their ideas real," said polySpec-



tra Founder and CEO Raymond Weitekamp. "For 3D printing to make the transition into true production-grade additive manufacturing — designers, inventors and engineers need to be able to trust that their printed parts will have the accuracy, aesthetics and durability required to use in their application. We are now making good on that promise."

The surface color and texture of the UVMax® coating can be tailored to make COR Alpha 3D printed parts indistinguishable from traditionally-manufactured polymer products. The color-matching capabilities of Keyland, combined with the versatility of polySpectra's Cyclic Olefin Resin (COR) family of materials — now enable consumer and industrial brands to adopt a completely new approach to digital manufacturing. Factors that make this partnership so unique include:

COR is the core – polySpectra's family of engineering-grade photopolymers unlock a diverse array of previously impossible additive manufacturing applications. For more than 5 years, the polySpectra team has been collaborating with end-users of 3D printing to refine COR Alpha for applications that require best-in-class thermomechanical performance and durability. From consumer products to medical devices to satellite parts - COR Alpha helps product teams accelerate innovation with advanced additive manufacturing.

UVMax® coating provides a spectrum of color possibilities – Keyland's UVMax® provides an excellent finish for plastic applications in transportation, light-weighting, building materials, consumer and industrial products. Keyland can develop a wide range of powders to match any supplied color standard. UV powder is an environmentally friendly coating, containing no solvents, VOCs, or HAPs. It is safe to use and can be reclaimed and recycled.

Improved durability: inside and out – Both COR Alpha and UVMax® were designed for durability. The high working temperature, toughness, and extreme chemical resistance of COR Alpha is enhanced by the hardness, abrasion resistance, and excellent adhesion of the UVMax® coating. (Click through for the technical datasheets for COR Alpha and UVMax®.)

"We have spent years searching for a scalable & durable coating solution that would enable our customers to apply their favorite brand colors to COR Alpha parts," said Weitekamp. "With UVMax®, we finally found the solution."

"Typical additive manufacturing polymers are challenging to coat. The high thermal stability of COR Alpha allows for a thorough and complete coating without the concern of warping or degrading the material." Andrew S. Walton, Business Development Manager at Keyland Polymer.

Source : PRNewswire

NEW PROJECT IN GREATER BOISE TURNS HARD-TO- RECYCLE PLASTICS INTO COMMUNITY INFRASTRUCTURE

LAKE FOREST, Ill., February 16, 2022 – Today, Reynolds Consumer Products and Dow (NYSE: DOW) announced the Hefty® EnergyBag® program is collaborating with ByFusion on a pilot project to introduce a new creative use for hard-to-recycle plastic items collected by local participants in the Greater Boise area. The ByFusion pilot project demonstrates how communities of all sizes can innovate solutions to environmental challenges and put their hard-to-recycle plastic waste to

good use by converting it into a building material that supports their community. The current project leverages public-private partnerships and will divert up to 72 tons of hard-to-recycle plastics from the Ada County Hidden Hollow landfill, which helps decrease its environmental impact.

The ByFusion pilot project will convert the hard-to-recycle plastics collected by the Hefty® EnergyBag® program into ByBlocks, the first-ever construction-grade block made from collected, previously unrecycled plastics. ByFusion's proprietary, no-emission process creates ByBlocks made entirely from plastic waste, containing no chemicals, additives or fillers. The fusion process does not require traditional sorting, cleaning or pre-processing. The ByBlocks can build a range of structures, including benches, bus shelters and much more. The first ByBlock application planned for the Greater Boise area is a large bench in Manitou Park, which was installed on February 15th. Additional projects are planned over the next few months, including a park bench in Garden City and other benches and kiosks within the area.

"I was excited when I learned about the ByFusion pilot project in the Greater Boise area because not only is it a beneficial way to use hard-to-recycle plastics, but the plastic collected comes from local residents who use the Hefty® EnergyBag® program," said Jennifer Ellis, Greater Boise community sustainability advocate. "From material collection to a finished post-consumer recycled-content product, this really makes an impact on the distance the material has traveled in the past and the endgame for the material. I appreciate that the Hefty® EnergyBag® program encourages people to find alternatives to simply throwing that plastic away. While the first priority should always be to refuse, reduce or reuse unnecessary plastic waste, having the program available to collect the hard-to-recycle plastics is a welcomed diversion from landfill. It's because of us,



the citizens of these communities, that this project is even possible. I am looking forward to visiting Manitou Park, enjoying the park bench and talking about it with my fellow Boiseans.”

The Hefty® EnergyBag® team is also taking the opportunity to determine the environmental impact of the ByFusion pilot project from beginning to end, through a life cycle assessment. Having a better understanding of the full global warming impact of the material used in ByBlocks in comparison to other uses of the collected materials will inform how the Hefty® EnergyBag® program and ByFusion may work together in the future.

“We are always exploring new end-use opportunities for the hard-to-recycle plastic collected by the Hefty® EnergyBag® program, including the potential to expand beyond plastic as an energy source, which is why participating in the ByFusion pilot project is such an exciting moment for the Hefty® EnergyBag® program,” said Lisa Burns, senior vice president, sustainability, Reynolds Consumer Products. “Seeing the transformation of these challenging plastics into this impressive park bench is a testament to what is possible and what the future could hold for the Hefty® EnergyBag® program.”

“ByFusion is excited to be part of this collaboration with Dow and the Hefty® EnergyBag® program that collectively

empowers the residents of the Greater Boise area to take control of their plastic waste and use it to support their growing, environmentally-conscious community,” said Heidi Kujawa, CEO, ByFusion. “We are confident that the area’s implementation of ByBlocks will show other cities how they can repurpose their plastic waste and transform it into an alternative building material that helps support their infrastructure needs, instead of being an ongoing burden.”

The ByFusion pilot project was developed in collaboration with Dow’s Business Impact Fund, which is a competitive grant program. The Hefty® EnergyBag® program, which is conducted in partnership with Dow, was already in place when the ByFusion pilot project launched. The program was first adopted by the City of Boise in 2018, and other local communities within Ada County soon followed.

“Since the Business Impact Fund was introduced in 2016, it has awarded over \$5 million for 35 projects around the globe. Every project, including the ByFusion pilot, has the potential to have a tremendous and positive impact on the local community,” said Julie Zaniewski, North American sustainability director for Dow Packaging & Specialty Plastics. “Dow and the Hefty® EnergyBag® team, along with ByFusion and the Greater Boise area, are committed to this project as an in-

novative way of reducing the amount of plastic that is otherwise sent to landfills. It is our collective hope that other cities and communities, beyond Boise, will be inspired to think creatively about new uses for this valuable material.”

Developed with Dow and other program supporters, the Hefty® EnergyBag® program is a hard-to-recycle plastics collection program that offers eligible residents in the Greater Boise area a convenient way to divert hard-to-recycle plastics from the landfill (learn more about the program here and check here for a list of the participating communities in Idaho). The Hefty® EnergyBag® orange bags can be purchased at select local retailers or online. Once the orange bag is filled with hard-to-recycle plastics, residents simply place it in the same bin or cart as their traditional recycling. The regular recycling truck takes the orange bags along with normal, loose recyclables, and the recycling center then separates these bags from other materials and sends them to facilities that use the hard-to-recycle plastics as valuable resources.

Through April 2021, the Hefty® EnergyBag® program has diverted over 1,600 tons of hard-to-recycle plastics from landfills and is currently active in communities in Nebraska and Idaho, along with counties in the metro Atlanta, Georgia, area.

Source : Dow

INTERNATIONAL NEWS

ARKEMA TO OPEN NEW POWDER COATING RESINS LAB AT CARY, NORTH CAROLINA, LOCATION

Arkema today announced a significant investment in the construction of a brand new powder coating resins lab in Cary, N.C., the company’s headquarters for coating resins. The facility is expected to begin operations by the end of the third quarter 2022.

“The new lab in Cary will expand our

ability to work closely with customers in the high-growth powder coatings segment,” said Amber Goodyear, global market manager, powder resins, at Arkema. “Arkema continues to strategically invest in low-VOC powder technology as part of our ongoing commitment to sustainability, recyclability and innovation. Our new state-of-the-



art lab, in collaboration with our other powder labs worldwide, will help to accelerate Arkema's ability to develop innovative solutions for the market that are on the leading edge of sustainability and performance."

Operations at the new lab will focus on formulation and application/testing support for Arkema's REAFREE® resins including those made with polyester resins, hybrid systems, polyurethane resins, UV curable products, various additives and much more. Additionally, it will give researchers more immediate hands-on access to the Arkema test facility at the Cary, N.C., headquarters location, offering years of realistic exposure data across a range of resins and substrates.

Arkema supplies powder coating formulators with REAFREE® polyester resins and other products worldwide and operates additional labs at its facilities in North Kansas City, Mo. (U.S.); Sant Celoni (Spain); and Navi Mumbai (India).

"In the past ten years, we have seen a significant increase in demand for powder coating resins that offer a higher level of performance while using less energy to cure and fewer volatile organic compounds," said Dr. Chris Miller, senior global research director at Arkema. "Our global network of labs dedicated to these technologies allow us to continually look to the future and develop new, innovative solutions for low-temperature cure formulations, superdurables and more emergent

technologies that can help companies throughout the value chain improve their global performance and sustainability efforts."

Source : Arkema

PLANS FOR SOLVAY'S PLANT IN DEVNYA, BULGARIA, INCLUDE INVESTING IN A CO-COMBUSTION BOILER, PAVING THE WAY FOR THE GROUP'S CARBON NEUTRALITY BEFORE 2050.

Solvay is adapting one of its existing boilers to increase its co-combustion rate with biomass at its largest European soda ash plant in Devnya, Bulgaria. By powering the boiler with 30% biomass, the CO₂ emissions related to energy production activities will be cut by 20%. The biomass will come from a variety of sources, including locally-sourced sunflower husk pellets. The boiler is projected to begin operating in November 2022.

The project is a first major milestone in transitioning the plant away from thermal coal power towards more sustainable energy and is fully in line with Solvay One Planet's ambition to reach carbon neutrality before 2050. This investment builds on the 2020 announcement on Solvay's soda ash plant in Rheinberg, Germany – set to become the world's first soda ash plant to be powered primarily by renewable energy – and the very recent announcement on Solvay's soda ash site in Dombasle, France – a transition to 100% primari-

ly refuse-derived fuel to cut CO₂ emissions, the first of its kind in France. Together these three projects in Europe will cut the Group's emissions globally by 8% by 2025.

"With more than 25 years of presence in Bulgaria, we are proud to embark on this new initiative towards more sustainable operations. This important milestone marks a critical step in our journey to reduce our carbon footprint and serve customers in a more sustainable and competitive way."

Ilham Kadri, CEO of Solvay

On February 10, 2022, Solvay's global president of its soda ash division, Philippe Kehren, and the plant manager in Devnya, Spiros Nomikos, met with the Bulgarian prime minister, Kiril Petkov, and the minister for innovation and growth, Daniel Lorer. During this meeting, Solvay presented its full energy transition road map for the Bulgarian plant, including a waste-to-energy project which was well received and appreciated by the government.

"The government greatly values Solvay's investment in Bulgaria, which represents an important development for our country and the region of Varna," explained Prime Minister Kiril Petkov. "Solvay can count on our partnership and support to make its sustainable ambitions in Devnya a reality."

Source : Solvay



Continued from Page 26

System CAS, and Executive Director of Operations Unit Elektronik. Prior to joining Continental AG in 2002, Cramer held executive positions with Grund-

ing AG and ITT Automotive.

Cramer is presently an independent industry advisor and consultant and serves as Senior Consultant to Shenzhen Shentou Investment Co Ltd., a China-based cross-border M&A consultancy and investment company. In

addition, Cramer serves on the board of directors of Knorr-Bremse Truck, a subsidiary of Knorr-Bremse A.G., as well as the boards of BBS Automation GmbH and Metalsa S.A.

Source : PRNewswire

Clariant at ACS 2022 Discover Beyond Color Innovation for High-Performance Coatings Products

- Sustainability: benefit from 100% bio-based surfactants & processing aids
- Performance: new formulations to extend storage stability & reduce process foaming
- Innovation: develop 2K epoxy coatings with improved weathering

CHARLOTTE, February 15, 2022 - Visit the Clariant booth at the American Coatings Show this April 5-7, 2022 to #asktheexpert about innovations "Beyond Color" that differentiate and enhance the performance, compliance, and sustainability of paints and coatings (Booth 2846).

"The coatings industry is evolving. As specialists in collaborative problem solving, we're excited to bring multi-functional solutions that elevate performance and inspire innovation to address industry-wide challenges and the toughest, application-specific unmet needs," explains Ray Gonzales, Head of Additives Sales - North America, Clariant.

Clariant will feature its wide-ranging formulation tools and additives for formulators and manufacturers that meet emerging trends, regulatory changes,

and higher performance requirements as the industry transitions to creating more sustainable consumer and industrial products.

"Clariant presents a new VITA range of surfactants & polyethylene glycols (PEGs), a 100% bio-based portfolio that sets a new standard in green surfactants by raising the renewable carbon content of the end product. Simplifying the formulation process and handling of water-based paints is key to help address new regulations while boosting protection and aesthetics," comments Jeff McManus, Head of Industrial & Consumer Specialties, Industrial Applications, Clariant.

Explore Clariant's latest innovative developments with its experts at booth 2846 and discover extensive support found beyond color in a series of on-show presentations featured below.

Sustainability Beyond Color

- Maximize the renewable carbon content of paints, coatings and inks with Clariant's new range of surfactants, polyglycols and other processing aids to support formulators and brands with their sustainability efforts. This VITA range is fully segregated, 100% based on plant-based

carbon via bio-ethanol. The products contribute to removing fossil carbon from the value chain while offering the same performance and efficiency as fossil-based versions.

Solutions for Carbon Negativity with Green Ethoxylated Derivatives

(Wednesday, April 6, 2:40 – 2:55 pm | Speaker: Joerg Rueger, Head of Competence Center Coatings, Global Innovation & Technology)

- Ceridust® 1041 VITA and Ceridust 1060 VITA are sustainable waxes offering very effective matting and scratch resistance properties while providing a soft touch feel in wood coatings and brighter colors in powder coatings.

Improve wood coatings and powder coatings using modified natural waxes

(Tuesday, April 5, 11:20 – 11:35 am | Speaker: Michael Watson, Technical Segment Manager, Coatings and Inks, North America)

Performance Beyond Color

- Adding Dispersogen® PLF 100 to pigment pastes boosts several key aspects when formulating color con-



VIEWS AND STATEMENTS



“Rhamnolipids are an important part of our Clean Future initiative which has set the goal to replace fossil carbon in all cleaning products by 2030. We want to make sustainability easy for everyone that uses our products. The partnership with Evonik helps move our brands away from fossil fuels without compromising on performance or affordability.”

- Peter Dekkers, Executive Vice President Middle Europe, Unilever.

“We have ambitious sustainable packaging goals that include achieving 30 percent circular content across our fast-moving consumer goods packaging by 2030, Advanced recycling can help our customers meet their sustainability goals and accelerate the move to a more circular economy. Collaboration across the value chain is critical to achieving this.”



- Tarun Manroa, chief strategy officer of Berry Global.



“As a specialty chemicals company, we are taking important steps to reduce the impact of our products on the environment. With the new VESTOPLAST® eCO product portfolio, we want to reduce the use of fossil resources in the adhesives industry in favor of bio-based, With the mass-balancing approach, Evonik is committed to increasing the use of biomaterials and reducing our customers' dependence on fossil resources.”

-Roberto Vila-Keller, head of the Coating & Adhesive Resins business line.

“Visy Packaging (Thailand), a subsidiary of SCG Packaging, a manufacturer of innovative and high-quality food packaging certified by ISCC PLUS throughout the whole supply chain, has partnered with SCGC to manufacture high-quality post-consumer recycled resins Circular PP, which is also certified by ISCC PLUS throughout the whole supply chain. As a result, the food packaging produced by Visy Packaging (Thailand) from SCGC's Circular PP is truly certified throughout the whole supply chain. Additionally, Visy Packaging adheres to many international standards, including ISO 9001, FSSC 22000, GMP, and HACCP. In this manner, consumers can have confidence in both the manufacturing standards and the attributes of the Circular PP materials, which are highly comparable to virgin plastic and can be used safely to manufacture food packaging and quality tests with a good aesthetic. It is yet another way to contribute to the reduction of global warming.”



- Karan Tejasen, Chief Operating Officer Performance and Polymer Packaging Business of SCG Packaging



“Johnson Matthey is a world leader in syngas and hydrogen technologies and working with 8 Rivers provides an exciting opportunity to advance the roll out of low carbon technologies. We are delighted that 8 Rivers has recognised the differentiated value our LCH can bring to their technology. This collaboration will help JM further strengthen our leading position in deploying low emission hydrogen technologies at scale.”

- Jane Toogood, Chief Executive of Johnson Matthey's Efficient Natural Resources Sector



VIEWS AND STATEMENTS



"No other application field showcases more the classic advantages of 3D printing, such as individualization or design freedom, than medical technology. Since the product launch of the first PEEK filament a good three years ago, we have been expanding the possibilities of modern medical technology in the individual treatment of patients using additive manufacturing by constantly developing new innovative biomaterials."

- **Marc Knebel, Head of Medical Systems at Evonik.**



"The INEOS Aromatics facility in Merak has played an important role in the Indonesia polyester industry for some time. This new, multi-million dollar investment shows our commitment to its future growth. It also continues INEOS Aromatics' tradition of deploying technology that helps lead the polyester industry to a more sustainable future," he adds. "It supports INEOS' commitment to producing essential products while reducing emissions to net zero by 2050."

- **Frank Yang, President Director, INEOS Aromatics Indonesia.**



"We are delighted to have been able to ship and deliver what is the first bio-based PP we have made from bio-based raw materials* through the mass balance method. By providing biomass PP, Prime Polymer will once again be contributing to the value creation of its customers through the mantle of 'Your Prime Solution Partner.' And in doing so, Prime Polymer will work together with its customers toward achieving a society that is recycling-oriented while still being convenient for everyone."

- **Fujimoto.**



"By recovering key critical elements for the Li-ion battery supply chain, such as lithium, cobalt, nickel and copper, in the most efficient and environmentally friendly way, Umicore is leading the way towards a battery circular economy, providing solutions to the growing demand for sustainably sourced materials while lowering their CO2 impact. The agreement with ACC pilot plant in Nersac is reinforcing the standard when it comes to sustainability and demonstrates our strong commitment to providing our customers with solutions for production waste and end-of-life materials. Battery recycling is a key ingredient of sustainable electric mobility and is fully in line with Umicore's overall closed-loop philosophy."

- **Denis Goffaux, Executive Vice President of Umicore**



"What seemed utopian to many in 2002 has become a reality in the past 20 years. We have created an organic textile standard, certified by approved certification bodies, which is accepted in all major markets. GOTS is a standard that gives consumers the power to choose truly organic products sourced from sustainable supply chains. Despite ongoing difficulties and uncertainty caused by the Covid-19 pandemic, decision-makers continue to pursue their sustainability goals and value GOTS as a tool to accomplish them."

- **Claudia Kersten, Managing Director at GOTS.**



centrates. As well as achieving high color strength and significantly improved pigment loading, it extends storage stability, reduces viscosities, reduces process foaming, and reduces color blocking and minimizes leaching.



a Novel Waterborne Polymeric Dispersant.

(Thursday, April 7, 10:00 – 10:15 am | Speaker: Mark Coward, New Business Development Manager, North America)

- Improve the weathering performance of 2K epoxy coatings while addressing the current regulatory changes for light stabilizers. We are excited for our technical expert, Dr. Mouhcine Kanouni to present Clariant's new additive solution to support paint formulators in overcoming durability and classification challenges.

Source : Chemical Market

Redefine Color and Performance with Innovation Beyond Color

DSM Engineering Materials Partners with Samsung Electronics to Develop First Smartphone Made with Recycled Ocean-Bound Fishing Nets

Green (NL), 16 February 2022 - DSM Engineering Materials today announces it has supported Samsung Electronics to deliver the first smartphone device to be made with Akulon® RePurposed. This high-performance polymer is produced by DSM from repurposing discarded fishing nets collected from the Indian Ocean. The new Galaxy S22 series smartphones and Tab S8 series tablets mark an important milestone in the sustainability of smartphone devices, and underlines DSM's commitment to enabling a circular economy through recycled-based innovation.

Launched in 2018, Akulon® RePurposed is made by partnering with the local community along India's coastline to collect and retrieve abandoned fishing nets. These are then processed into the exceptional polymer, containing a minimum 80% recycled polyamide 6.

Working with Samsung Electronics, DSM tailored Akulon® RePurposed to meet the specific high-performance requirements of the new Galaxy S22 series and Galaxy Tab S8 series. As such, the material is incorporated into key components including the Galaxy S22 series'

key bracket and inner cover of the S Pen, as well as Tab S8 series' inner support bracket. Thanks to its unique properties, Akulon® RePurposed offers an excellent balance and leading mechanical performance, and has already been applied to various industries, such as automotive, consumer goods, and electronic devices. To find out more, visit www.dsm.com/akulon-repurposed.

DSM has developed a wide range of engineering materials over the years to help its customers in support of a sustainable, low-carbon circular economy and has committed to making available bio- and/or recycled-based alternatives for its entire portfolio by 2030. These circular materials help to de-fossilize the economy and society, reduce plastic waste and carbon footprint, and meet changing legislative and end-consumer demands.

Pranveer Singh Rathore,



Materials R&D Manager at Samsung Electronics, commented: "Through this open collaboration, which combined our technology with DSM's expertise, we successfully de-

veloped a solution that bridges the needs of the planet and our Galaxy users. The Galaxy S22 series and Tab S8 series help advance Samsung's sustainability vision, Galaxy for the Planet, which includes reducing our environmental footprint by incorporating recycled materials in all new mobile products by 2025. We're excited about strengthen-



ing our partnership with DSM and continuing to positively impact Galaxy users and the environment as we expand our efforts to integrate repurposed ocean plastics across our entire product lineup in the years

to come.”

Nileshkumar Kukalyekar, Business Director South Asia, DSM Engineering Materials, commented: “As the first player in the electronics industry to be making its smartphone with Akulon® RePurposed from discarded fishing nets, Samsung shares our ambition to develop sustainable recycled-based solutions that help consumers make

more eco-conscious choices in their daily lives. Together, we will continue to deliver sustainable and scalable solutions that help to address the climate crisis. We hope Samsung’s move to recycled ocean-bound fishing nets will inspire many others to take similar steps to make our planet a better place.”

Source : Chemical Market

Q3 Financial Results Hikal Limited Reports Pat Of Rs 45 Crs With A Resilient Quarterly Performance

Q3FY22 Highlights

- Declared an interim dividend of 60%
- Revenue of Rs. 515 crore; YoY growth of 11%
- EBITDA of Rs. 93 crore; EBITDA Margin of 18.1%
- PAT of Rs. 45 crores; YoY growth of 12%
- Hikal’s long term credit rating upgraded to A+ by ICRA

Key Highlights

- Change in product mix and increase demand of key products
- Strong performance in Pharma own products and Crop Protection CDMO segments
- Positive impact of higher sales curbed by unfavorable product mix and increased utilities
- YoY PAT growth of 12% driven by increased EBITDA, reduced interest cost and change in tax regime
 - o Lowered interest rates due to a combination of factors – improvement in Credit Rating and

successful renegotiations

- The Company declared an interim dividend of 60% i.e., Rs. 1.20/share
- Pinnacle, our Business transformation initiative, is on track to create a roadmap across business vertical to drive growth as well as improve profitability, by giving new strategic direction and enabling to chart our progress in a sustainable manner

Segmental Performance for the quarter ended 31st December 2021

- **Pharmaceutical sales remained flat at Rs. 268 crore as compared to Rs. 269 crore in Q3 FY21**
 - o Stable sales corresponding with change in product mix
 - o Product mix change coupled with increased raw material and energy price
 - o Higher fixed cost in combination with flat revenues resulted in lower EBIT
 - o Several new customers acquired in different geographies
 - o Anti-diabetic portfolio of APIs for future is receiving healthy

traction from customers

- o Process development has started for several active ingredients for the multi-year Animal health project with a global innovator
- **Crop Protection sales up by 27% at Rs. 246 crore as compared to Rs. 194 crore in Q3 FY21**
 - o Increased sales volume of CDMO products along with favorable price increases for certain products
 - o Increase in new inquiries from CDMO customers in Q3 FY22
 - o Demand continues to remain strong in domestic market
 - o Construction of new multipurpose facility for new products at Panoli is on track

Commenting on the results, Jai Hiremath, Chairman & Managing Director, Hikal Ltd. said,

“Hikal has recorded a resilient performance in Q3 as we continued the growth trajectory that the company has established over the past few quarters. Despite the hurdles presented by global supply chain challenges combined with



increasing raw material as well as utility prices, we have been able to grow our revenues as well as bottom line in the past quarter.

Our Pharmaceutical business was flat at Rs. 268 Crores in Q3 FY22 due to a slower offtake by several customers. We are in dialogue with our customers to pass on the rise in the input prices. This process generally has a lag of a few months which can be seen in the muted segmental profitability for the business. We continued to receive several new enquiries from global innovator companies regarding collaborations in our CDMO business segment. We also expect the demand to stay buoyant on our own products business in the coming quarters.

The Crop Protection business with Rs 246 Crores revenue in Q3 FY22 witnessed a growth of 27% on a YoY basis, on the back of higher demand from our leading CDMO customers. Several new enquiries for potential partnerships in our CDMO business segment were re-

ceived. We expect this momentum to continue in the next several quarters. Sales of our own products faced challenges of raw material availability. However, we expect the supply to normalize in the coming months, providing a further boost to our Crop protection business.

Both of our businesses are seeing strong tailwinds with respect to the prevailing China plus one sentiment. We continue to invest in developing new products, capabilities and building new capacities considering our future business prospects. Our strategy to integrate backward and to develop alternate sourcing partners is yielding results in terms of sustainability.

The bottom line for the quarter improved 12% YoY due to higher operating profits, reduced interest cost and change in tax regime. We are pleased that our credit rating agency, ICRA, has upgraded our long-term rating to A+ on the back of healthy growth in operating income, operational efficiencies

and a healthy pipeline of products. Our effective interest rates have come down due to successful negotiations with our bankers. We are positive that this trend will continue to further improve our bottom line and generate strong cash-flows in the coming years.

As part of our efforts to fight the Pandemic, all our employees are fully vaccinated with both doses. The company had near-normal operations across all sites during the quarter, complying with all COVID protocols.

Pinnacle, our business transformation initiative, is on track to create a roadmap across business verticals to drive an aggressive yet profitable and sustainable growth over next five years through a new strategic direction.

We have a robust growth outlook for both of our businesses. We are confident about maintaining this growth momentum in upcoming quarters.”

Source : Chemical Market

Jubilant Ingrevia Limited Commissions New Facility for Diketenes and Derivatives

Noida, UP, India, February 16, 2022: Jubilant Ingrevia Limited, a global integrated Life Science products and Innovative Solutions provider with over 42 years of experience offering over 165 products & innovative solutions using more than 35 key chemistry and technology platforms across its three portfolio of businesses viz Acetyls, Pyridines and Vitamins & Premixes, today announced the commissioning of its new Diketene derivatives facility at its manufacturing site in North India at Gajraula, Uttar Pradesh.

Jubilant Ingrevia Limited for many years has niche expertise in using Ketene chemistry technology. Using the Ketene chemistry capability, the Company has

developed a range of Diketene Derivatives. The newly commissioned facility marks the entry of Jubilant Ingrevia Limited into the fast growing Diketene business portfolio. This reiterates Jubilant Ingrevia Limited's commitment towards growth through its integrated business model, by providing value added products & innovative solutions to its customers.

The commissioned facility has about 7,000 TPA capacity to produce various Esters (Mono Methyl Acetoacetamide, Methyl Acetoacetate, Ethyl Acetoacetate and Ter-Butyl Acetoacetate). The Company's long-standing association with leading customers in Pharmaceuticals, Agrochemicals and other industries and

its advance efforts to get product approval from customers, will help in utilizing a major portion of the capacity of this new facility in the coming months. Jubilant Ingrevia Limited undertakes to commission future phases of Diketene Derivatives as per plan.

On this occasion, Mr. Rajesh Srivastava, Chief Executive Officer and Managing Director, Jubilant Ingrevia Limited said, “It gives me immense pleasure to showcase yet another instance where Jubilant



Ingrevia Limited has developed a strong chemistry platform proposition using inhouse R&D and technology transfer backed with high operating excel-

lence and clear strategic direction. The commercial launch of the Diketene facility marks the next stage in the growth of the Company, positioning us closer

to our client's requirements of innovative products and solutions using novel and niche chemistry platform."

Source : Chemical Market

Specialty Chemicals Giant Lanxess Appoints Neelanjan Banerjee as the Global Head of its Lubricant Additives Business

- Neelanjan Banerjee to take over as the new Global Head of Business Unit Lubricants Additives
- Martin Saewe takes over as Head of Group Initiative E-Mobility and Circular Economy
- Namitesh Roy Choudhury to succeed Neelanjan Banerjee as Country Representative & Managing Director for India region



ada), Altamira (Mexico), Mannheim (Germany), Latina (Italy), Kaoshiung (Taiwan) and Nantong, Qingdao (China). It also has a manufacturing facility in Geismar, Louisiana in the US (Rubicon - a joint venture between LANXESS and Huntsman). The business unit has 5 global technical competence centers located in Naugatuck (USA), West Hill (Canada), Mannheim (Germany) and APAC Application Development Center (AADC) at Shanghai (China). It also has 3 regional sales hubs located in the Americas, Europe and APAC region. The BU LAB offers a comprehensive product portfolio for all lubricant applications. It focusses mainly on 3 segments: Transportation Additives, Industrial Additives and Synthetic Basestocks & Fluids. The business unit serves a host of attractive global end-application industries like automotive, marine, new mobility, aviation, power generation, food processing, metal working and general industrial.

Neelanjan Banerjee is taking over from Martin Saewe who moves on to become the Head of Group Initiative E-Mobility and Circular Economy. He succeeds Philipp Junge, who has led the Group initiative since its launch in August 2020 and has successfully driven LANXESS'

strategy and projects around E-Mobility and Circular Economy. Philipp Junge is leaving LANXESS at his own request effective March 31, to pursue new challenges outside the company.

Namitesh Roy Choudhury, currently head of Production, Technology, Safety and Environment group function (GF PTSE) India and Executive Director of LANXESS India, will succeed Neelanjan Banerjee as Country Representative and Managing Director of LANXESS India Private Limited effective July 1, 2022. He joined Bayer in 1989 and subsequently moved to LANXESS in India in 2005. He has more than 30 years of experience in the chemical industry.

Source : Chemical Market

Mumbai, February 12, 2022 – Neelanjan Banerjee will be taking over as the new Global Head of the Business Unit Lubricants Additives at LANXESS Corporation, USA effective July 1, 2022 after a brief work-in period. He has been Region Head, Vice-Chairman & Managing Director for LANXESS India Private Limited since August 2018 and has also been an Executive Director since 2009. He has held senior management positions in the last 16 years with the organization.

Headquartered in Shelton, CT in the US, the Business Unit Lubricant Additives (BU LAB) is globally positioned with around 800 customers worldwide and production sites in East Hanover, Fords, (USA), Elmira, West Hill (Can-



Evonik Supports its Customers to make more Sustainable Coatings and Inks

- **New holistic sustainability strategy goes beyond Evonik's product portfolio**
- **Evonik addresses seven handprint effects to benefit the entire value chain**
- **'Sustainability goes deeper than the surface' approach focuses on formulation and final product**

Essen, Germany. Sustainability in the coatings and inks industry is often reduced to "bio-based solutions." However, to evaluate a coating's true environmental impact, many more aspects need to be considered than only assessing if a solution is "bio-based." To address this challenge, Evonik has developed a strategy that goes far beyond its own additives by putting the formulation and the final product itself as the focus of all its activities. Under the claim "Sustainability goes deeper than the surface," Evonik's Coating Additives business line introduces its new holistic approach to sustainability that minimizes the environmental footprint and maximizes the handprint of the final coating.

Sustainability is about the consistent viability of saving time, materials, and energy

"Sustainability is about so much more than just being green," says Gaetano Blanda, Head of Evonik Coating Additives. "It's about the consistent viability of saving time, materials, and energy. We are convinced that to produce truly sustainable products the formulation itself must be more environmentally friendly and safer." Accordingly, Evonik Coatings Additives bundles its new sustainability approach into seven so-called handprint effects. "The handprint of a product is the difference between

an established and an improved condition of a single environmental impact," describes Tim-Frederic Sloot, Head of Sustainability at Evonik Coating Additives. "For example, when our product enables the formulator to significantly reduce the VOC content in a coating's footprint – then the difference to the VOC content in the reference coating is the handprint of our additive." The business line has defined seven different effects which outline potential handprints for its products and solutions. These seven handprint effects influence different steps of the value chain – from the manufacturing, via the end use of coated or printed articles to the disposal or recycling.

The role of handprints in the coatings industry

There are four handprint effects that focus mainly on the formulation and application step of coatings and inks. These four effects are "Safe Use," "Production Efficiency," "VOC Reduction," and "Sustainable Feedstocks." Concerning safe use, Evonik's Coating Additives team proactively carries out individual actions to reduce safety related risks of its portfolio, for example by replacing hazardous components. To improve production efficiency, solutions are offered that optimize and reduce the amount of material and utility needed from customers, for example by reducing energy usage during the grinding step of a formulation. Providing solutions for VOC reduction is already a core competency of Evonik, and the existing portfolio of additives and resins that serve this purpose is continuously expanded. The increasing number of bio-based products included in Evonik's portfolio further addresses the growing need to replace fossil raw materials with more sustainable feedstocks.

The next two handprint effects of "Durability" and "Labels/Compliance" have their highest relevance in the end use phase of coated articles. A more durable coating significantly reduces the need for maintenance or replacement, resulting in substantial savings of raw materials and emissions. Evonik's high-performance additives improve corrosion, scratch, and/or burnish resistance. To address the "Labels/Compliance" effect, Evonik's regulatory experts evaluate the suitability of relevant products for compliant coatings and inks, providing customers with extensive regulatory information for the whole portfolio.

The seventh and last handprint effect, "Circular Solutions", focuses on the end of life of coated and printed articles. As a key member of Evonik's Circular Plastics Program, the Coating Additives business line focuses the development of its portfolio on circular solutions for paints, coatings and inks.

Minimizing the footprint

Besides maximizing the handprint, the Coating Additives business also minimizes its footprint throughout all its processes by using resources more efficiently and reducing emissions.

For that purpose, a comprehensive Portfolio Sustainability Assessment (PSA) using the framework of the World Business Council for Sustainable Development (WBCSD) is carried out. Based on the PSA, it is possible to identify products that have a clear positive sustainability profile, which are then named as "Next Generation Solutions." It is also possible to identify products with critical sustainability profiles and initiate actions to improve the profile. As of today, approximately 50% of Evonik's coating additives portfolio are classified as next



generation solutions.

Reduction of greenhouse gas emissions
Evonik's efforts to reduce its own greenhouse gas emissions also includes increasing the transparency of its processes. This is done by monitoring the specific energy use and material streams at individual production sites and by Life Cycle Assessments (LCAs) on a product level. In a next step, experts from Evonik's Technology & Engineering department will also identify the most attractive reduction potentials and

carry out projects to realize them. "Our holistic approach enables our customers to contribute to a much more sustainable coatings and inks industry," added Tim-Frederic Sloot.

The Coating Additives business line's sustainability approach is part of the entire Evonik group's overall Sustainability Strategy. This strategy is based on ambitious targets and key activities to translate them into measurable actions. Sustainability forms an integral part of the strategy and commercial activities of

Evonik and all of its business lines, with the company systematically focusing on the impact of its business activities along the entire value chain and based on the UN's Sustainable Development Goals.

Evonik is one of the leading companies in the chemical industry for sustainability, backed up by the results of some of the most important independent rating and ranking agencies (for example, MSCI, Sustainalytics, EcoVadis, CDP).

Source : Evonik

Braskem Develops Fuel Oil to Increase Energy Flexibility and reduce CO2 Emissions in the ABC Petrochemical Complex

Concerned with the equalization of energy balance in the Vesta project and guided by technology advances in the ABC Paulista Petrochemical Complex, Braskem has developed the C10+ Oil. This solution, which was produced by the teams from the Industrial and Fuel Development areas, aims at finding alternatives for excess energy and reducing carbon dioxide (CO2) emissions in the unit.

Initial studies indicated that implementation of Vesta with an investment of BRL 600 million, an electric system modernization project in partnership with Siemens to improve energy efficiency at the ABC Petrochemical Complex, would lead to a monthly excess of 3 kt (kilotons) of Unileve (liquid fuel generated by co-products and used for burning in boilers in the Braskem Santo André unit), which comprises various currents with different chemical prop-

erties, while not meeting fuel oil regulations and becoming a challenge to the company.



Because of that, the best alternative would have been a segregation of C10+, one of the currents that make up 70% of Unileve. As a result, a plan was

set up to ensure quality and enable storage by adapting a tank in order to receive the new product and building new lines to provide for safe tanker loading.

"Giving a destination to the main current that makes up Unileve, our unit turns achieves greater energy flexibility and autonomy to manage issues related

to liquid fuel balance", states Rafael Monteiro, production engineer at the Braskem Aromatics center. "At the same time, our fuels commercial area has increased its product portfolio by adding a solution for the energy market", adds Tadeu Demboski of the Fuel Development area.

Another significant advantage is the compliance with the sustainable development goals of Braskem by not burning Unileve in the industrial plant, a reduction of CO2 emissions the company estimates at 10 kt (kilotons) by the end of 2022.

Source : Braskem



Price as on February 28, 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(Acti- vated)	50	50	
Calcium Carbonate (Pre- cipitated)	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	
Polyethylene Glycol (PEG 200)	230	93	
Polyethylene Glycol (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	

CHEMICAL MARKET

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Launch of Pilot Project Aimed at Commercial Use of Fuel Ammonia to Naphtha Crackers

Mitsui Chemicals, Inc. (Minato-ku, Tokyo; President & CEO: HASHIMOTO Osamu), Maruzen Petrochemical Co., Ltd. (Chuo-ku, Tokyo; President & Representative Director: NABESHIMA Masaru), Toyo Engineering Corporation (Narashino-shi, Chiba; President & CEO: NAGAMATSU Haruo) and Sojitz Machinery Corporation (Chiyoda-ku, Tokyo; President & CEO: MATSUMOTO Yukihiisa) today announced that a joint pilot project to be demonstrated by the four companies is to be funded by the New Energy and Industrial Technology Development Organization (NEDO). The project partners had applied to the Green In-

novation Fund for projects aimed at the development of technology for producing raw materials for plastics using CO₂ and other sources, focusing in particular on the development of advanced technologies for naphtha crackers.

The goal of the pilot project is to switch naphtha crackers from running on conventional methane-based fuel to one in which ammonia is the principal component, thereby reducing the

CO₂ emissions generated by combustion virtually to zero. The trial is expected to run for 10 years, from FY2021 until FY2030 in order to be implemented in society after feasibility has been demonstrated in an entirely ammonia-fired commercial cracker in the project's final year.

Source : Mitsui Chemicals

Solvay and Veolia launch energy transition project "Dombasle Énergie"

Solvay and Veolia are launching the construction of an industrial energy transition project, "Dombasle Énergie", which aims to replace coal with refuse-derived fuel (RDF) for the production of clean and competitive energy for the historical Dombasle-sur-Meurthe plant. The project will ensure the plant's competitiveness and reduce CO₂ emissions by 50%.

The project consists of replacing three coal-fired boilers with a boiler room equipped with two furnaces running on RDF, produced from waste that cannot be recycled, allowing to halve the carbon footprint of the industrial activity and stop importing 200,000 tons of coal annually. The Dombasle-sur-Meurthe site will have a cogeneration unit that uses 350,000 ton of RDF per year, supplied by Veolia as of 2024.

The new facility, to be built by Solvay

and operated by Veolia, will have a capacity of 181 megawatts (MW) thermal power and 17.5 MW electrical power, which will be reused for the industrial process. The project will require an investment of €225 million and is scheduled to come on stream in 2024.

A first in France, Dombasle Énergie will create a circular economy virtuous loop and in particular:

- Cut the site's environmental footprint (reduction of current CO₂ emissions by approximately 50% or 240,000 tonnes of CO₂ per year);
- Stop the use of fossil fuels by replacing coal imported from abroad with RDF produced in France, primarily from the Grand Est region and neighboring regions;
- Create a new outlet for waste that

was initially non-recyclable and which will be transformed into green energy;

Reduce water usage by 7%.

"A pioneer of industrial ecology, Veolia is once again positioning itself as a major partner for the industry players to help them achieve their carbon emission reduction targets", said Antoine Frérot, chairman and CEO of Veolia. "We are glad to take part in this project with a partner like Solvay and contribute to the decarbonisation of industry as part of the ecological transformation approach."

"Our sustainable development roadmap, Solvay One Planet, aims in particular at carbon neutrality by 2050. To actively contribute to the emergence of a low-carbon society, we need to transform our plants to put in place sustain-



able and competitive alternative energies. This requires finding partnerships between private and public actors," says Ilham Kadri, CEO of Solvay. "We are delighted to partner with Veolia on this project which will enable us to move away from coal in our second soda ash plant, after Rheinberg in Germany."

"Veolia's objective is to develop a real industrial sector of the energy recovery of non-recyclable waste materials. Transformed into solid recovered fuels, this waste makes it possible to produce energy and heat to replace fossil resources. Dombasle Énergie aims to replace coal with RDF to supply the Solvay plant with clean energy in a circular economy and industrial decarbonization approach", explained Anne Le Guennec, general manager - recycling and waste valorization, Veolia France.

"This major project secures

the future of our historic site and confirms Solvay's determination to transform the European soda ash industry, to make it more sustainable and competitive, and better serve our customers in the long term," stressed Philippe Kehren, president of Solvay Soda Ash & Derivatives. "It is driven by the same momentum as



the green energy transition project developed at our Rheinberg, Germany site."

This conversion of the plant offers a real advantage in the context of volatile fossil fuel prices and the taxes imposed by European regulations on the use of coal. This gain in competitive-

ness allows the site to be sustained and the employment pool to be preserved with 1,000 direct and indirect jobs.

This project has benefited from the support of the Grand Est region and ADEME.

Source : Solvay

Chevron Phillips Chemical Invests in Infinity Recycling's Circular Plastics Fund to Help Develop Solutions to Address the Plastic Waste Challenge

Chevron Phillips Chemical (CP-Chem) reinforced its commitment to accelerate change for a sustainable future by investing in Infinity Recycling's Circular Plastics Fund. The Fund, registered in Luxembourg, will invest in advanced recycling businesses which convert plastic waste back into virgin grade feedstock for the manufacturing of new products, focusing first in Europe with the ambition to expand globally.

Recycling plastic waste enables valuable materials to be reused instead of ending up in a landfill or unintended places in the environment. Recycling is an important part of the solution to create a circular economy for plastics, together with design for circularity, collecting and sorting infrastructures, consumer

engagement and guiding policies. Collaboration across the entire value chain is needed to solve the plastic waste challenge.

Infinity Recycling's Circular Plastics Fund aims to accelerate the transition from a linear to a circular plastic economy by investing in advanced recycling technologies. Complementary to mechanical recycling, advanced recycling technologies are expected to play a key role in increasing recycling rates needed for the development of a sustainable, circular economy for plastics.

Benny Mermans, vice president of sustainability at CP-Chem said: "Our company

is committed to ensuring plastics continue to deliver much needed societal benefits while also producing our life-enriching products sustainably, leaving behind the lightest footprint and enabling others to do so as well. Plastic waste is a valuable resource and keeping it in the loop as long as possible will contribute to the creation of a circular economy for plastics. Through this investment in Infinity



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

PRODUCT LIST

1 Amino

AAKAR DYES AND CHEMICALS Pg 12

1 Naphthol

AAKAR DYES AND CHEMICALS Pg 12

2(4 Ethyl Benzol)

Mavani Chemicals Pvt. Ltd. Pg 11

2(4 Methyl Benzoyl)

Mavani Chemicals Pvt. Ltd. Pg 11

2, 6. Dihydroxy Naphthlene

AAKAR DYES AND CHEMICALS Pg 12

2 Naphthol

AAKAR DYES AND CHEMICALS Pg 12

3,6 Disulfonic Acid

AAKAR DYES AND CHEMICALS Pg 12

4- Sulfonic Acid

AAKAR DYES AND CHEMICALS Pg 12

6BA

Chemilife Enterprises Pg 9

6 Nitro

AAKAR DYES AND CHEMICALS Pg 12

A

Acetic Acid

KRISHNA SOLVECHEM LTD. Pg 5

Acetone

KRISHNA SOLVECHEM LTD. Pg 5

Acetonitrile

KRISHNA SOLVECHEM LTD. Pg 5

Acetophenone

KRISHNA SOLVECHEM LTD. Pg 5

Acetyl H. Acid

AAKAR DYES AND CHEMICALS Pg 12

Acid Green-16

AAKAR DYES AND CHEMICALS Pg 12

Acid Orange 156

Mavani Chemicals Pvt. Ltd. Pg 11

Acid Orange Liquid

HIREN ENTERPRISES Pg 12

Acid Yellow 36

Mavani Chemicals Pvt. Ltd. Pg 11

Acid Yellow 219

Mavani Chemicals Pvt. Ltd. Pg 11

Acrylonitrile

KRISHNA SOLVECHEM LTD. Pg 5

Alizarine Red

Mavani Chemicals Pvt. Ltd. Pg 11

Alpha Methyl Styrene

KRISHNA SOLVECHEM LTD. Pg 5

Amido G. Acid to Gamma Acid

AAKAR DYES AND CHEMICALS Pg 12

Amino ISO J Acid

AAKAR DYES AND CHEMICALS Pg 12

Ammonium Bi Carbonate

KRISHNA SOLVECHEM LTD. Pg 5

Aniline Oil

KRISHNA SOLVECHEM LTD. Pg 5

B

Basic Auramine Liquid

HIREN ENTERPRISES Pg 12

Basic Bismark Brown R

HIREN ENTERPRISES Pg 12

Basic Bismark Brown Y

HIREN ENTERPRISES Pg 12

Basic Brown R Liquid

HIREN ENTERPRISES Pg 12

Basic Brown Y Liquid

HIREN ENTERPRISES Pg 12

Basic Crysodine R (Powder)

HIREN ENTERPRISES Pg 12

Basic Crysodine Y Base (Solvent Orange 3)

HIREN ENTERPRISES Pg 12

Basic Crysodine Y (Crystal & Powder)

HIREN ENTERPRISES Pg 12

Basic Crysodine Y Liquid Pg 12

Benzoic Acid

KRISHNA SOLVECHEM LTD. Pg 5

Mavani Chemicals Pvt. Ltd. Pg 11

Beta Naphthol to G. Salt

AAKAR DYES AND CHEMICALS Pg 12

B.H.K. Acid

Mavani Chemicals Pvt. Ltd. Pg 11

BIS AZO

Mavani Chemicals Pvt. Ltd. Pg 11

Bitumen / Pet Coke / DMPAT

KRISHNA SOLVECHEM LTD. Pg 5

Blue TL

Mavani Chemicals Pvt. Ltd. Pg 11

BM Alizarine Red

Mavani Chemicals Pvt. Ltd. Pg 11

Bordo 3B

Mavani Chemicals Pvt. Ltd. Pg 11

Brassinolids

Chemilife Enterprises Pg 9

Butanol

KRISHNA SOLVECHEM LTD. Pg 5

C

C-IX

KRISHNA SOLVECHEM LTD. Pg 5

Cyclohexane

KRISHNA SOLVECHEM LTD. Pg 5

D

DEG

KRISHNA SOLVECHEM LTD. Pg 5

Dehydro Thio Based

Mavani Chemicals Pvt. Ltd. Pg 11

Di Ethyl Amine

KRISHNA SOLVECHEM LTD. Pg 5

Di Ethylene Tri Amine (DETA)

KRISHNA SOLVECHEM LTD. Pg 5

Di Iso Propyl Ether

KRISHNA SOLVECHEM LTD. Pg 5

Di Methyl Acetamide

KRISHNA SOLVECHEM LTD. Pg 5

Di Methyl Amine

KRISHNA SOLVECHEM LTD. Pg 5

Di Methyl Amine HCl

KRISHNA SOLVECHEM LTD. Pg 5

Dimethyl Carbonate

KRISHNA SOLVECHEM LTD. Pg 5

Di Methyl Formamide

KRISHNA SOLVECHEM LTD. Pg 5

Di Methyl Sulphoxide

KRISHNA SOLVECHEM LTD. Pg 5

DIPA

KRISHNA SOLVECHEM LTD. Pg 5

Direct Orange 118 Liquid

HIREN ENTERPRISES Pg 12

Direct Red 81 Liquid

HIREN ENTERPRISES Pg 12

Direct Violet Base

Mavani Chemicals Pvt. Ltd. Pg 11

Direct Yellow - 09

Mavani Chemicals Pvt. Ltd. Pg 11

Direct Yellow 11 Liquid

HIREN ENTERPRISES Pg 12

Direct Yellow 87 Base

Mavani Chemicals Pvt. Ltd. Pg 11

Di Sodium Phosphate

KRISHNA SOLVECHEM LTD. Pg 5



E

Edible Refine Salt

SKC INDUSTRIES LLP Pg 14

Epichlorohydrine

KRISHNA SOLVECHEM LTD. Pg 5

Ethylene Diamine (EDA)

KRISHNA SOLVECHEM LTD. Pg 5

Ethylene Dichloride

KRISHNA SOLVECHEM LTD. Pg 5

F

Formic Acid

KRISHNA SOLVECHEM LTD. Pg 5

G

Gibberlic Acid

Chemilife Enterprises Pg 9

Green - BL

Mavani Chemicals Pvt. Ltd. Pg 11

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 5

Hexane

KRISHNA SOLVECHEM LTD. Pg 5

Basic Brown Y Liquid Pg 12

HIREN ENTERPRISES Pg 12

Basic Brown Y Liquid Pg 12

Hydrazine Hydrate 80%

KRISHNA SOLVECHEM LTD. Pg 5

Hydrogen Peroxide 50%

KRISHNA SOLVECHEM LTD. Pg 5

Hydroxylamine Sulphate

KRISHNA SOLVECHEM LTD. Pg 5

I

Indole Acetic Acid

Chemilife Enterprises Pg 9

Indole Butyric Acid

Chemilife Enterprises Pg 9

Industrial Salt

SKC INDUSTRIES LLP Pg 14

Isobutanol

KRISHNA SOLVECHEM LTD. Pg 5

Isophorone

KRISHNA SOLVECHEM LTD. Pg 5

Isopropanol

KRISHNA SOLVECHEM LTD. Pg 5

Isopropyl Alcohol

KRISHNA SOLVECHEM LTD. Pg 5

J

J Acid

AAKAR DYES AND CHEMICALS Pg 12

M

Mamas Acid

Mavani Chemicals Pvt. Ltd. Pg 11

MCB

KRISHNA SOLVECHEM LTD. Pg 5

MDC

KRISHNA SOLVECHEM LTD. Pg 5

Methanol

KRISHNA SOLVECHEM LTD. Pg 5

Methylene Di Chloride

KRISHNA SOLVECHEM LTD. Pg 5

Methyl Ethyl Ketone (MEK)

KRISHNA SOLVECHEM LTD. Pg 5

Methyl Iodide

KRISHNA SOLVECHEM LTD. Pg 5

Methyl Iso Butyl Ketone (MIBK)

KRISHNA SOLVECHEM LTD. Pg 5

Methyl Metha Acrylate

KRISHNA SOLVECHEM LTD. Pg 5

Mono Chlorobenzene

KRISHNA SOLVECHEM LTD. Pg 5

Mono Ethyl Amine 70%

KRISHNA SOLVECHEM LTD. Pg 5

Mono Isopropyl Amine 70%

KRISHNA SOLVECHEM LTD. Pg 5

Mono Methyl Amine

KRISHNA SOLVECHEM LTD. Pg 5

Mono Sodium Phosphate

KRISHNA SOLVECHEM LTD. Pg 5

Morpholine

KRISHNA SOLVECHEM LTD. Pg 5

N

Naphthalene 2:7 Disulfonic Acid

AAKAR DYES AND CHEMICALS Pg 12

N-Butanol

KRISHNA SOLVECHEM LTD. Pg 5

Nitazine Yellow

Mavani Chemicals Pvt. Ltd. Pg 11

N-Methyl-2-Pyrrolidone

KRISHNA SOLVECHEM LTD. Pg 5

O

Orange ARL

Mavani Chemicals Pvt. Ltd. Pg 11

Orange Base

Mavani Chemicals Pvt. Ltd. Pg 11

Ortho Nitro Toluene

KRISHNA SOLVECHEM LTD. Pg 5

Ortho Xylene

KRISHNA SOLVECHEM LTD. Pg 5

P

Papas Acid

Mavani Chemicals Pvt. Ltd. Pg 11

Paraformaldehyde

KRISHNA SOLVECHEM LTD. Pg 5

Para Nitro Toluene

KRISHNA SOLVECHEM LTD. Pg 5

PCI5

KRISHNA SOLVECHEM LTD. Pg 5

Peracetic Acid

Chemilife Enterprises Pg 9

PH

Mavani Chemicals Pvt. Ltd. Pg 11

Phenol

KRISHNA SOLVECHEM LTD. Pg 5

Phosgenated and Cyanuric Based

Mavani Chemicals Pvt. Ltd. Pg 11

Phosphate

KRISHNA SOLVECHEM LTD. Pg 5

Phosphoric Acid 85%

KRISHNA SOLVECHEM LTD. Pg 5

Piperazine 68%

KRISHNA SOLVECHEM LTD. Pg 5

Piperazine Anhydrous

KRISHNA SOLVECHEM LTD. Pg 5

Polyamines

KRISHNA SOLVECHEM LTD. Pg 5

Potassium Meta Bi Sulphite

KRISHNA SOLVECHEM LTD. Pg 5

Propylene Glycol

KRISHNA SOLVECHEM LTD. Pg 5

Pyridine

KRISHNA SOLVECHEM LTD. Pg 5

Q

Quinizarine (1-4 Dihydroxy Anthraquinone

Mavani Chemicals Pvt. Ltd. Pg 11

R

Raw Salt/Crystal/Coarse Salt

SKC INDUSTRIES LLP Pg 14

Red - 4G

Mavani Chemicals Pvt. Ltd. Pg 11

Red - HI

Mavani Chemicals Pvt. Ltd. Pg 11



S

Salt Free Dyes

Mavani Chemicals Pvt. Ltd. Pg 11

Silver Peroxide

Chemilife Enterprises Pg 9

Sodium Acid Pyro Phosphate

KRISHNA SOLVECHEM LTD. Pg 5

Sodium Benzoate

KRISHNA SOLVECHEM LTD. Pg 5

Sodium Chloride NACL 99%

SKC INDUSTRIES LLP Pg 14

Sodium Hexa Meta

KRISHNA SOLVECHEM LTD. Pg 5

Sodium Meta Bi Sulphate

KRISHNA SOLVECHEM LTD. Pg 5

Sodium Metal

KRISHNA SOLVECHEM LTD. Pg 5

Sodium Methoxide

KRISHNA SOLVECHEM LTD. Pg 5

Sodium Nitrate

KRISHNA SOLVECHEM LTD. Pg 5

Sodium Nitrite

KRISHNA SOLVECHEM LTD. Pg 5

Sodium Percarbonate

Chemilife Enterprises Pg 9

Sodium Sulphate

SKC INDUSTRIES LLP Pg 14

Sodium Sulphide Yellow Flakes

KRISHNA SOLVECHEM LTD. Pg 5

Sodium Sulphite

KRISHNA SOLVECHEM LTD. Pg 5

Sodium Tri Poly

KRISHNA SOLVECHEM LTD. Pg 5

Stain Indicator

Mavani Chemicals Pvt. Ltd. Pg 11

S. Titan Yellow

Mavani Chemicals Pvt. Ltd. Pg 11

Styrene Monomer

KRISHNA SOLVECHEM LTD. Pg 5

Sulfuryl Chloride

KRISHNA SOLVECHEM LTD. Pg 5

Sulphur Dioxide

KRISHNA SOLVECHEM LTD. Pg 5

T

Tablet Salt

SKC INDUSTRIES LLP Pg 14

Tertiary Butanol

KRISHNA SOLVECHEM LTD. Pg 5

Tetra Hydro Furan

KRISHNA SOLVECHEM LTD. Pg 5

T G Urea

KRISHNA SOLVECHEM LTD. Pg 5

Thionyl Chloride

KRISHNA SOLVECHEM LTD. Pg 5

Tobias Acid

AAKAR DYES AND CHEMICALS Pg 12

Toluene

KRISHNA SOLVECHEM LTD. Pg 5

Tri Ethyl Amine

KRISHNA SOLVECHEM LTD. Pg 5

Tri Ethyl Ortho Formate

KRISHNA SOLVECHEM LTD. Pg 5

Tri Mathyl Amine

KRISHNA SOLVECHEM LTD. Pg 5

Tri-n-Butyl Amine

KRISHNA SOLVECHEM LTD. Pg 5

TRIS AZO

Mavani Chemicals Pvt. Ltd. Pg 11

Tri Sodium Phosphate

KRISHNA SOLVECHEM LTD. Pg 5

Tropium Chloride

KRISHNA SOLVECHEM LTD. Pg 5

V

Vinyl Acetate Monomer

KRISHNA SOLVECHEM LTD. Pg 5

Violet 4B

Mavani Chemicals Pvt. Ltd. Pg 11

Y

Yellow ARL

Mavani Chemicals Pvt. Ltd. Pg 11

Yellow GL

Mavani Chemicals Pvt. Ltd. Pg 11

Yellow RL Base

Mavani Chemicals Pvt. Ltd. Pg 11

Anhydrous Ammonia the Gas that Provides (almost) all of our Food Video

WASHINGTON, Feb. 28, 2022 — Anhydrous ammonia can cause headline-grabbing disasters, but it's also responsible for 50% of the food on your table. It all boils down to nitrogen and the process of turning the inert di-nitrogen in our air into useful fertilizer. In this Reactions video, we explore the science behind this absolutely vital molecule: https://youtu.be/YnTYn0lr_mM. 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



Recycling's Fund, our company aims to accelerate the development of the most promising advanced recycling technologies, bridge

gaps in the value chain and prove the complementarity of mechanical and advanced recycling, all important steps to acceler-

ate change for a sustainable future."

Source : Chevron Phillips

Arkema strengthens its engineering adhesives with the acquisition of PMP in China

Arkema is expanding its offer of engineering adhesives with the planned acquisition of Shanghai Zhiguan Polymer Materials (PMP), specialized in hot-melt adhesives for the consumer electronics market. This project is in line with Bostik's strategy to build a strong position in the attractive engineering adhesives market and to accelerate its development in the fast-growing electronics market, especially in Asia.



Arkema is announcing the planned acquisition of Chinese company PMP (Shanghai Zhiguan Polymer Materials), which specialises in reactive hot-melt polyurethane (HMPUR) adhesives and generates over €1 million in annual sales.

These adhesives are mainly dedicated to the consumer electronics market and are used in the bonding of mobile phones, tablets, laptops and connected objects.

Thanks to its expertise in formulating innovative solutions and its

recognized know-how in processes and R&D, PMP has developed solid positions in the very demanding and high-added-value consumer electronics mar-

ket. With this acquisition, Bostik will strengthen its portfolio of technologies in engineering adhesives, where the Group already has a robust know-how in cyanoacrylate, MMA and UV technologies, developed notably through the acquisitions of Afinitica, Nitta and AEC Polymers.

Thanks to strong technological and commercial complementarities, this bolt-on acquisition offers many development synergies, and will contribute to substantially accelerating Bostik's expansion in the fast-growing consumer electronics market in Asia.

Source : Arkema

Cosmo Films Ltd Launches White Cast Polypropylene (COP) Film

New Delhi, 2nd March, 2022: Cosmo Films Ltd., a global leader in specialty films for flexible packaging, labeling, and lamination applications as well as synthetic paper, has launched a white Cast Polypropylene (CPP) Film with

high Coefficient of Friction (COF).

A film specially innovated to address the issue of slippage of layers over each other, it has a seal strength of more than 1,800 gf/inch with a seal initiation tem-

perature of 950oC. It helps in achieving uniform sealing area of the final pouches as it helps in preventing the issue of inter-layer slippage. Film-to-film coefficient of friction range is more than 0.4 while film-to-metal coefficient of fric-



EVENTS AND CONFERENCES

COATINGS FOR AFRICA

Date: May 04-06, 2022

City: Sandton Convention Centre, Johannesburg

Country: South Africa

Website: <https://www.coatingsforafrica.com/>

Description: With a rich history of success, through its association with the Oil and Colour Chemists' Association (OCCA) and South African Paint Manufacturing Association (SAPMA), Coatings For Africa is the largest dedicated coatings event in Africa for raw material and service suppliers, equipment and paint manufacturers. For three days, the trade exhibition along with the Coatings For Africa Conference, facilitates serious business and networking opportunities for the coatings community.

The event creates the perfect environment for manufacturers, raw materials suppliers, distributors, buyers and technical specialists like formulators from the coatings industry to meet face-to-face and do business. That's not all, the event offers the opportunity to gather insight on the latest processes, exchange ideas with industry leaders and build a strong network in the African continent.

CHEM UK 2022 EXPO

Date: May 11-12, 2022

City: NEC, Birmingham

Country: UK

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

Description: CHEMUK is now established as the UK's annual Chemical & Process Industries Supply Chain Expo and Speaker Programme, bringing together attendee groups from all segments of the industrial chemicals, formulated products, pharma, as well as from biochemical & process industries.

Supply Chain Expo: CHEMUK 2022 will provide visitor groups with a diverse showcase of some 300+ specialist UK & international exhibitors, showcasing latest plant, equipment, technology, supply chain materials & services supporting the chemical and processing industries, driving operational performance, efficiency, safety, sustainability, compliance and more.

PAINT ISTANBUL TURKCOAT

Date: March 17-19, 2022

City: Turkey

Country: Istanbul

Website: <https://ilikevents.com/event/10677-paintistanbul-&-turkcoat>

Description: Paintistanbul & Turkcoat will be held 17 to 19 Mar 2022 in Istanbul, Turkey. Paintistanbul & Turkcoat is Turkey's Leading Paint & Coatings Exhibition. Local and international exhibitor companies will have a chance to make important business connections and meet professional visitors from all around the world. Visitors of the exhibition will have the opportunity meet face to face with hundreds of leading companies in one place, and get to know the latest products and technologies. The important aspect of Paintistanbul & Turkcoat will be the "International Paint Industry, Raw Materials, Auxiliary Materials and Technologies Congress" which is the largest congress in this field. With the important merger, Paintistanbul & Turkcoat will be hosting the professional visitor portfolios of both exhibitions together for the first time. Therefore, 15,000 industry professionals are expected to visit the exhibition. Paintistanbul & Turkcoat is an event and I like events...



EVENTS AND CONFERENCES

AMERICAN COATINGS SHOW

Date: April 05-07, 2022

City: Indiana Convention Center Indianapolis, United States

Country: United States

Website: <https://www.tradeindia.com/tradeshows/96059/american-coatings-show-conference-2022.html>

Description: American Coatings Show and Conference 2022 is the trusted conference and trade show, showcasing Adhesives, Centrifuges, Chemicals, Coatings, Laboratory Equipment. American Coatings Show and Conference 2022 is being held from 05-07 April 2022 at Indiana Convention Center. This show will draw in particular and centered groups of onlookers who will have the chance to meet with industry experts and key business sector controllers. It will give you a chance to meet new and existing clients effectively searching for new suppliers.

CPHI JAPAN

Date: April 20-22, 2022

City: Tokyo Big Sight, Koto

Country: Japan

Website: <https://10times.com/icse-japan>

Description: CPhI Japan is an international event focusing on the overall development of the pharmaceutical and medical industries worldwide. The event aims at increasing the overall domestic production along with the active participation of all stakeholders. This event shows products like providing the global overview of this sector with new innovations and research techniques that are already on or in the anvil etc. in the medical & pharmaceutical, packaging materials, plant, machinery & equipment, research & development industries.

PAINT EXPO GERMANY

Date: April 26-29, 2022

City: Karlsruher Messe und Kongress GmbH, Karlsruhe,

Country: Germany

Website: <https://10times.com/paintexpo>

Description: PaintExpo is the worldwide leading trade fair for suppliers and users of industrial coating technology. It brings together many top decision makers from companies who use coating processes.

Event information may be out of date due to the coronavirus (COVID-19). Confirm details with event organisers. This page was last updated on Nov 10th 2021



tion range lies in the range of 0.3 to 0.4.

With a thickness range of 25 to 40 micron, the film eliminates the need of white ink and is suitable for flexible packaging for lamination of noodles, biscuits, snacks and other bakery products. The structure of the film consists of three layers i.e., a) Corona treated layer; b) White PP core layer & c) Sealable untreated layer.



Talking about the product launch, Mr. Pankaj Poddar, Group CEO, Cosmo Films Ltd. said, “Packag-

ing slippage is one of the major issues of the FMCG industry. To address this issue and avoid wastage of

food material, we have designed this film. The issue of slippage of layers over each other arises due to the lower value of coefficient of friction that results in non-uniform sealing area of the final pouch. Our new CPP film is designed with a higher coefficient of friction, which helps in achieving a uniform sealing area for the final pouch.”

Source : Chemical Market

Non Sparking Tools Used in The Chemical Industry and Beyond

To make a factory safe and health friendly, it is very important to have tools and machinery which are safe to operate and maintain. This is particularly important in the chemical industry. There are specific guidelines regarding the use of non-sparking tools in chemical plants and factories. As the name suggests, the non-sparking tools provide protection against fire and explosions in

environments where flammable chemicals, fuels or gases are present. These tools are also called Spark-Resistant or Spark Proof. Here is a very



interesting blog ["19 Most frequently asked questions about Non-Sparking Tools"](#) from [Pahwa Metal Tech](#) which gives us an in depth analysis of non-sparking tools used in the chemical industry and beyond.

Source: Chemical Market

Lanxess India Celebrates 10 Successful Years of Operations at its Jhagadia Manufacturing Site

Jhagadia, March 01, 2022 – Specialty chemicals company LANXESS India celebrates the 10th anniversary of operations of three of its Business Units – Material Protection Products, Rhein Chemie and High Performance Materials at its state-of-the-art Jhagadia manu-

facturing site in Gujarat this month. In view of the COVID-19 pandemic, the milestone was celebrated virtually.

Jhagadia site is a key manufacturing base for LANXESS globally and one of the large production sites of the compa-

ny in India. It has been built adhering to global standards and is equipped with all necessary technologies to ensure safe and environment-friendly operations. This site hosts the production facilities for four of its business units –



High Performance Materials (high tech plastics), Material Protection Products (biocides), Rhein Chemie (business line FTA and business line SRP) and Liquid Purification Technologies (ion exchange resins).

Over the past years, the site has focused on optimal use of natural resources to ensure minimum impact on the environment and promote sustainable development. It has significant features like Effluent treatment plant, Sewage treatment plant and an Occupational Health Centre among others.

The organization has invested sizeable amount at the site and generated employment opportunities for the community at large. The organization continues to prioritize the topic of occupational safety and that of all its employees.

Throughout these years, the site has successfully managed to observe high safety standards and ensured that potential risks are minimized from the outset and hazards are avoided in the plant.

Commenting on the occasion, Neelanjan Banerjee, Vice Chairman and Managing Director, LANXESS India said, “We have had a remarkable decade of safe and sustainable operations at the Jhagadia site and are proud to have achieved this incredible milestone. The site has consistently deliv-

ered outstanding results over the past 10 years with a constant focus on safety, quality and customer satisfaction. The success that we have achieved so far is attributable to the hard-work and commitment of our employees as well as to the support of the local administration, the nearby communities and industry. I’m sure we will continue to work and grow together.”

Source : Chemical Market

Prime Polymer Launches Japan’s First Commercial Production And Shipment Of Biomass PP

Mitsui Chemicals, Inc. announced that its subsidiary Prime Polymer Co., Ltd. has become the first company in Japan to commercially produce and ship biomass polypropylene (PP). Derived from bio-based hydrocarbons that Mitsui Chemicals received at its Osaka Works in Takaishi, Osaka, last December from Neste Corporation, this PP is certified as bio-based using the mass balance method in accordance with ISCC PLUS certification for plastic and chemical derivatives.

Mitsui Chemicals Group is working to realize a circular economy through the two-pronged approach of chemical recycling and conversion to bio-based materials. Aiding in the effort to circumvent global warming, bio-based production represents an avenue of strategic importance when it comes to achieving car-

bon neutrality by 2050. In conjunction then with its development of materials and processes toward this end, Mitsui Chemicals aims to make this shipment of a bio-based hydrocarbon derivative the first step toward promoting the implementation of bio-based chemicals and plastics into society.

“We are delighted to have been able to ship and deliver what is the first bio-based PP we have made from bio-based raw materials* through the mass balance method,” said Fujimoto. “By providing biomass PP, Prime Polymer will

once again be contributing to the value creation of its customers through the mantle of ‘Your Prime Solution Partner.’ And in doing so, Prime Polymer will work together with its customers toward achieving a society that is recycling-oriented while still being convenient for everyone.”

Source : Mitsui Chemicals



Dyes &
Chemical Market
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Duration	12 months	12 months	12 months	9 months (Inset Pg) 3 months (Cover Pg)
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Social Media Marketing	Yes	Yes	Yes	Yes
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