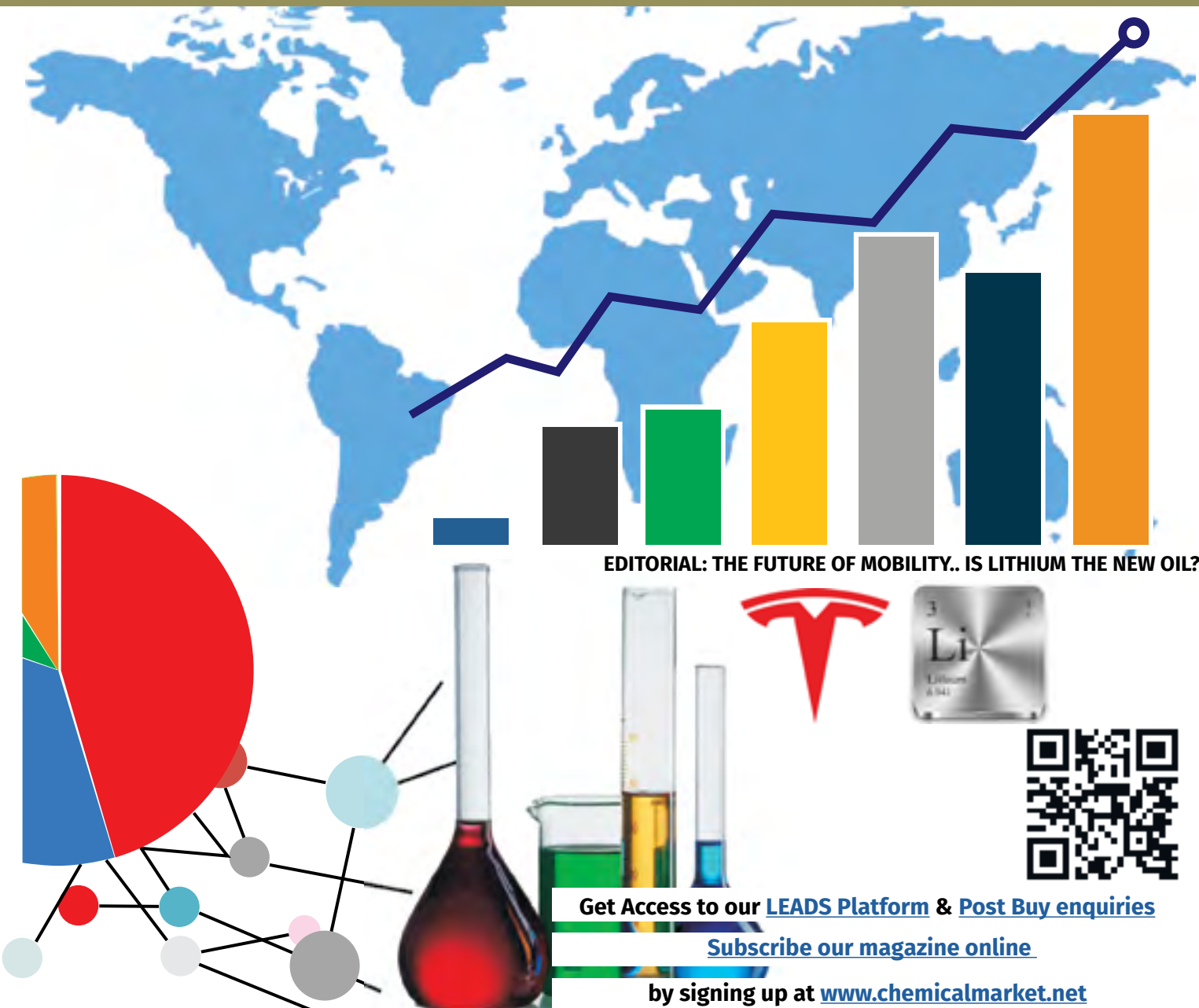




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- Fine & Specialty Chemicals
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- Chemicals from Herbal & Other Natural Resources
- Paints & Varnishes
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- India – EU Chemicals & Petrochemicals Forum
- India – Japan Chemicals & Petrochemicals Forum
- India – US Chemicals & Petrochemicals Forum
- Conclave on Indian Petrochemical Industry
- Conclave on Indian Agrochemical Industry
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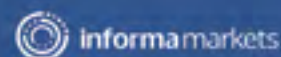
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Sodium Acid Pyro Phosphate	Tri Sodium Phosphate

## Du-Pont Ltd.

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## Reliance Industries Ltd.

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## Lucky Chemicals Industries

PCl<sub>5</sub>

## Jubilant Life Science Ltd.

Acetic Acid

## Diamines and Chemicals Ltd.

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DIPA	Piperazine 68%
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## Alkyl Amines Chemicals Ltd.

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## SI Group

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**KANDLA PORT :** Acetic Acid, Acetone, Acrylonitrile, Butanol, C-IX, Cyclohexanone, Ethylene Dichloride, Hexane, Isobutanol, Isopropyl Alcohol, MDC, Methanol, Methyl Ethyl Ketone (MEK), Methyl Isobutyl Ketone (MIBK), Ortho Xylene, Phenol, Propylene Glycol, Styrene Monomer, Toluene, Vinyl Acetate Monomer.

**MUMBAI PORT :** Acetic Acid, Acetone, Methanol, Methylene Di Chloride, Ortho Xylene, Toluene.

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- ☛ **Amido G. Acid to Gamma Acid**
- ☛ **Naphthalene 2:7 Disulfonic Acid (For Acid Green-16)**



Contact

**Bharat Mehta**

**AAKAR DYES AND CHEMICALS** (Admin Office)

Mob: 09820508901 / 08080426035

Email ID : bmaakardye@gmail.com • Skype ID : bharatmehta63 • Website : [www.aakardye.com](http://www.aakardye.com)

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## Will It Kombucha Video

WASHINGTON, Dec. 17, 2020 — Kombucha is a bubbly, fermented tea that has gained popularity in the health and wellness scene over the last decade -- but what is it exactly? This week, the Reactions team breaks down kombucha's chemistry and investigates which ordinary beverages they can turn into kombucha: <https://youtu.be/Yx-ARRckS9dA>.

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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No	Exhibitions	Date	Place
1	CPhI North America	Aug 10-12, 2021	Philadelph
2	CPhI Worldwide Germany	Aug 31-Sept 2, 2021	Fiera Milano, Milan, Italy
3	CPhI Middle East & Africa	Sept 26-28, 2021	Riyadh, Saudi Arabia
4	CPhI China- Virtual CPhI	Dec 16-18, 2020	Shanghai, China
5	CPhI Japan	Apr 14-16, 2021	Tokyo, Japan
6	CPhI Korea	Oct 11-13, 2021	Seoul, India
7	CPhI India	Jan 27-29, 2021	Noida, India

#### MECD (Coating Show)

1	Asia Pacific Coatings Show	Sept 01-03-, 2021	Indonesia, Jakarta
2	Middle East Specialty Chemicals Show	June 15 2021	Dubai
3	Middle East Coatings Show	June 14-16, 2021	Dubai
4	Coatings For Africa	June 02-04, 2021	Sandton, South Africa

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#### CHEMS

1	Dye+Chem Morocco International Expo	Nov 04-07, 2020	Morocco
2	Dye+Chem Sri Lanka International Expo	Mar 21 (Not Final)	Colombo Sri Lanka
3	Dye+Chem Bangladesh International Expo	Sept 01-04, 2021	Bangladesh
4	Dye+Chem Brazil International Expo	TBD 2021	Brazil

#### Red Carpet Events

1	5th Bangladesh Int'l Dyes, Pigments and Chemicals Expo	Expected Apr 2021	Dhaka, Bangladesh
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#### Turkey (Arkim Group)

1	InterDye Textile Printing Eurasia	Mar 11-13, 2021	Istanbul
2	Paint Istanbul TURKCOAT	Sept 09-11, 2021	Istanbul
3	Paint Expo Euroasia	Nov 25-27, 2021	Istanbul

#### Other Exhibitions

1	Paint India	Mar 11-13, 2021	Goregaon, Mumbai
2	Expo Paint and Coatings	July 8-10, 2021	New Delhi, India
3	CIPI	Note Sure	Mumbai, India
4	Chemspec Europe	May 19-20, 2021	Messe Frankfurt, Germany
5	ChemUK 2020	May 12-13, 2021	NBC, Birmingham, UK
6	American Coatings Show	Apr 05-07, 2022	Indianapolis
7	China Coat China	Dec 08-10, 2020	Shanghai, China Shanghai
8	Interdye China	Nov 8-10, 2020	China
9	Paint Expo Germany	Apr 26-29, 2022	Germany

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BF3 [Borone Trifluoride]	2 Tons	
Glycerin	5 Tons	-

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Email : [info@mangalamorganics.com](mailto:info@mangalamorganics.com)

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Details :

**Anil Kumar Gupta**

M/s Zenith Dyestuffs & Chemical Industries

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Product Name	Qty	Grade
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Polysol	Bulk	

Details :

**Mr. Tejas Thakkar**

M/s Nitish Enterprises,

203, Dariasthan Bldg, 33, Dariasthan Street,

Mumbai - 400003,

Tel: 98200-92170

Product Name	Qty	Grade
Non Ferrous Metals		Manufacturer

Details :

**Santosh Thakre**

S S Fine Chem Laboratories

Email : [ssfinechemlaboratories@gmail.com](mailto:ssfinechemlaboratories@gmail.com)

Mobile : 9867774142

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

Details :

**Lal P Chacko**

Email: [lalpchacko@hotmail.com](mailto:lalpchacko@hotmail.com)

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](mailto: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](http://www.elixirpharma.in))

Nikhil Panchal

Plot No. 164/A, Phase - II, GIDC, Naroda, Ahmedabad - 382 330, GUJARAT.

Email: [purchase@elixirpharma.in](mailto: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
NaOH flakes	360 Kg	Chemical
Sodium Metabi Sulphate	255	Chemical
Sodium Hypochlorite	480 Kg	Chemical
HCL	1115 Kg	Chemical
Alum	160 Kg	Chemical
Industrial Salt	10800 Kg	Chemical
Oil Disperant	207 Kg	Chemical
Polyelectrolyte Anionic	235 Kg	Chemical
Genesys RC (Anti-scalant)	962 Ltr	Chemical

Details : Required Rate with MSDS and Other Certificate

**Swapnil Salunke**

**Zen Engineering**

Plot # A-269, Road # 33 A, Wagle Industrial Estate,

Near ESIS Hospital, Thane (West)-400604.

Maharashtra, INDIA

Web: [www.zenengineering.net](http://www.zenengineering.net)

Email: [purchase@zenengineering.in](mailto:purchase@zenengineering.in)

Switchboard.: +91-989-283-1911

Product Name	Qty	Grade
Iso Propyl Alcohol		

Details :

**Rajkumar Mandal**

**Mytepol India**

Email : [info@mytepol.com](mailto:info@mytepol.com) / Mobile : +91-996-780-0437

Product Name	Qty	Grade
Borax	Bulk	

Details :

**Sandip Agarwal**

**Supreme Borochem Private Ltd**

E-mail : [sandip@sbpl.co.in](mailto:sandip@sbpl.co.in) Mobile : +91-983-100-1334

Product Name	Qty	Grade
Fast Red RI Base		Industrial

Details :

**Vibhu Vaidya**

**Krupalu Dye Stuff Industries**

Email : [krupalu@ymail.com](mailto:krupalu@ymail.com)

Mobile : 9408554819

Product Name	Qty	Grade
Acrylic Acid		

Details :

**Janardhan**

**Katyayani Polymers**

Email : [katyayanipolymers@gmail.com](mailto:katyayanipolymers@gmail.com)

Mobile: +91-995-990-0375

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

Details : Required in June and August.

**Dr. Deepak Birewar**

**Inventys Research Company**

Email : [dbirewar@inventys.in](mailto:dbirewar@inventys.in)

Mobile : +91-961-966-6333

Product Name	Qty	Grade
Detergent and Home Care Product	Container Truck load	

Details : Prefer direct manufacturer or exporters only.

**Jagdish Thakral**

**Shri Hariram Export Pvt. Ltd.**

Email: [jthakral@kailashgroup.com](mailto:jthakral@kailashgroup.com) (preferred)

Phone : 0712-273-4041

Product Name	Qty	Grade
Pharma Intermediates	-	

Details :

**Arnish**

**Chemox Chemopharma Industries**

Email : [vekariya.arnish@ymail.com](mailto:vekariya.arnish@ymail.com)

Mobile: +91-990-908-3070 (preferred)

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

Details : No recycled or recovered Acetonitrile, only fresh material please.

**Mr Kunal Kamat (Procurement Agent)**

**Kunal Chemicals Trading**

Email : [kunalchemicaltrading@gmail.com](mailto:kunalchemicaltrading@gmail.com) (preferred)

Mobile : +91-932-001-3358

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

Details :

**Parthiv**

**Shiv Chem Industries**

Email : [chelateshivchem@yahoo.co.in](mailto:chelateshivchem@yahoo.co.in)

Tel.: 079-2282-3447

Product Name	Qty	Grade
Sofosbuvir and Daclatasvir		

**Nirav Patel**

**Indamed Pharmaceuticals Pvt. Ltd.**

Email : [indamedpharma@yahoo.co.in](mailto:indamedpharma@yahoo.co.in)

Mobile : +91-968-787-7922 (Preferred)





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Product Name	Qty	Grade
Glycerine Terpinol		
Details : <b>Sanjay Rokad</b> <b>Shreeji Enterprise</b> <b>Email : <a href="mailto:rokadsanjay@yahoo.com">rokadsanjay@yahoo.com</a></b> <b>Mobile : +91-701-615-0012</b>		

Product Name	Qty	Grade
Acetic Acid	Tanker	
Details : <b>Dinesh Gupta</b> <b>HARESH ENTERPRISES (Wholeseller)</b> <b>Email: <a href="mailto:setuenter@yahoo.co.in">setuenter@yahoo.co.in</a></b> <b>Mobile: +91-9824200441</b>		

Product Name	Qty	Grade
Ammonium Sulphate pure white		
Details : <b>Manish</b> <b>SM Dharani Chem Pvt Ltd( Manufacturer)</b> <b>Email : <a href="mailto:manish@smdcpl.in">manish@smdcpl.in</a></b> <b>Mobile : 9879408765</b>		

Product Name	Qty	Grade
AMITRAZ 12.5 ec liquid	25-30 Lt	
Details : I require AMITRAZ 12.5 ec liquid for re- packing on monthly basis 25 to 30 ltrs <b>Gagandeep Singh</b> <b>Amritsar</b> <b>Mobile: 99158-44307</b> <b>Email : <a href="mailto:vetsafepharma15@gmail.com">vetsafepharma15@gmail.com</a></b>		

Product Name	Qty	Grade
N-Ethyl-2-Pyrrolidone NEP	8000 Kgs	Technical
Details : <b>Vandit Shah</b> <b>Pune, Mh</b> <b>Mobile: 9327238521</b> <b>Email : <a href="mailto:vandit09@gmail.com">vandit09@gmail.com</a></b>		

Product Name	Qty	Grade
2,4,6 Trichloro Aniline	100 Kgs	Chemical
Details : please send us the details <b>PRAVIN IYER</b> <b>Vadodara, Gujarat</b> <b>Mobile: 9898507767</b> <b>Email : <a href="mailto:pravin.iyer@atpigments.com">pravin.iyer@atpigments.com</a></b>		

Product Name	Qty	Grade
Diethylene Glycol		
Details : <b>Rakesh Bachani</b> <b>Royal Chemicals (India)</b> <b>Email : <a href="mailto:info@royalchemindia.com">info@royalchemindia.com</a></b> <b>Mobile : +91-922-150-3305</b>		

Product Name	Qty	Grade
Naphthalene Powder	-	
Para Di Chloro Benzene Powder		
Camphor Powder		
Details : <b>Xavi</b> <b>Gabhri Pharma (Manufacturer)</b> <b>E-mail : <a href="mailto:fragrancevalley1992@gmail.com">fragrancevalley1992@gmail.com</a></b> <b>Mobile : 9847687718</b>		

Product Name	Qty	Grade
Resorcinol	-	
Triethyl amine		
Paraformaldehyde		
Formaldehyde		
Details : <b>Ashok Patil (Manufacturer)</b> <b>DD Patil Chemicals, Amalner Dist Jalgoan</b> <b>Email: <a href="mailto:ddchemicalsales@gmail.com">ddchemicalsales@gmail.com</a></b> <b>Mobile: +91-735-022-6099</b>		

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. <b>Arvindbhai Vadhada</b> <b>NewCera Minechem (Manufacturer)</b> <b>Email : <a href="mailto:newceraminechem62@yahoo.com">newceraminechem62@yahoo.com</a></b> <b>Mobile : +91-9429460123</b>		

Product Name	Qty	Grade
3-(2-Ethyhexyloxy) Propylamine. CAS NO : 5397-31-9	5 Tons	
Details : <b>Raj Shah</b> <b>NASSOLKEM, BUL BUL (Manufacturer)</b> <b>Email : <a href="mailto:natchem@gmail.com">natchem@gmail.com</a></b> <b>Mobile : 7069039335</b>		



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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](mailto:jbhalgat11@gmail.com)

Mobile : 9422220871

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](mailto:santosh.taksale@manikchandpackaging.com)

Product Name	Qty	Grade
Sodium Hypochlorite	500 Kgs	Chemical

Details : We need this product on a regular basis (Monthly) Please contact us if you are a manufacturer or a distributor. (Required in and around Calicut Kerela)

**Rajshree Varshney**

Mumbai, Mh

Mobile: + 917520945076

Email : [rajshree.varshney@gmail.com](mailto: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](mailto: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](mailto: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](mailto:clakhpati@gmail.com)

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](mailto:Kishor.tarafdar@moglix.com)

Product Name	Qty	Grade
IPA		

Details : Bulk requirement

**Amit Dave**

Amit International (Distributor)

Email : [amitintl@zoho.com](mailto: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

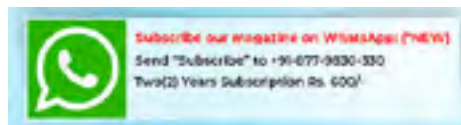
Details :

**Pravin Iyer**

AT Pigments (Manufacturer)

Email : [pravin.iyer@atpigments.com](mailto:pravin.iyer@atpigments.com)

Mobile : 9898507767



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[info@chemicalmarket.net](mailto:info@chemicalmarket.net) or visit  
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Product Name	Qty	Grade
Titanium dioxide		
Details : <b>P. DO. SHAH</b> <b>SEMITONE INDIA (Manufacturer)</b> Email : <a href="mailto:prakash@pcf.co.in">prakash@pcf.co.in</a> 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) <b>Abhishek Jha</b> <b>Valsad, Gujarat, India</b> Email : <a href="mailto:pur5@triveniinterchem.com">pur5@triveniinterchem.com</a>		

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Product Name	Qty	Grade
Barium Titanate		
Calcium Titanate		
Lead Titanate		
Lithium Titanate		
Details : <b>P. DO. SHAH</b> <b>SEMITONE INDIA (Manufacturer)</b> Email : <a href="mailto:prakash@pcf.co.in">prakash@pcf.co.in</a> Mobile : 918850655380		

Product Name	Qty	Grade
Industrial Label Gum 38051010		
Details : <b>Janardhan</b> <b>Katyayani Polymers (Manufacturer)</b> Email : <a href="mailto:katyayanipolymers@gmail.com">katyayanipolymers@gmail.com</a> Mobile: +91-995-990-0375		

Product Name	Qty	Grade
Purified Terephthalic Acid	-	Trader
Details : <b>Rakesh Bachani</b> <b>Royal Chemicals (India)</b> Email : <a href="mailto:info@royalchemindia.com">info@royalchemindia.com</a> Mobile : +91-922-150-3305		

Product Name	Qty	Grade
Toluene c9 and solvents	-	Trader
Details : We are Trader and Deal in api and solvents <b>Rajiv Kapoor</b> <b>Global Enterprises (Traders)</b> Mobile: 8866506582 Email : <a href="mailto:globalenterprisespurchase@gmail.com">globalenterprisespurchase@gmail.com</a>		

Product Name	Qty	Grade
Reactive Dyes	Bulk	Distributor
Ramazoles		
Vat Dyes		
Details : <b>M/s Diamond Dyes Industries Pvt. Ltd.</b> 102, Nain Krupa, 1st Floor, 118/112, Kazi Sayed Street, Masjid (West), Mumbai - 400 003 <b>Tel: 022-2340-2754</b> <b>Mobile: (Bharat Bhai) 093241-36095</b> <b>Dilip: 093242-48986</b> Email: <a href="mailto:bharatd18@gmail.com">bharatd18@gmail.com</a>		

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		
<b>Mitesh Modi</b> Contact : 9830090208, 9339459367 Email : <a href="mailto:amritdyes1952@gmail.com">amritdyes1952@gmail.com</a>		

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Product Name	Qty	Grade
Alfa Naphthols		
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](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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](mailto:info@texochem.com)

Mobile : 919820217042

Product Name	Qty	Grade
Glycerine	12 Tons	Manufacturer

Details :

**Tajinder Goyal**

Softex Surgial

Email : [Tajinder.goyal@gmail.com](mailto:Tajinder.goyal@gmail.com)

Ph: +91-980-555-6667

Product Name	Qty	Grade
Pharma Intermediates	-	
Details :		
<b>Arnish</b>		
Chemox Chemopharma Industries (Manufacturer)		
Email : <a href="mailto:vekariya.arnish@ymail.com">vekariya.arnish@ymail.com</a>		
Mobile: +91-990-908-3070		

Product Name	Qty	Grade
KAILASH brand detergent paste		
detergent round tablet		
home care products for cleaning purpose		
Details :		
<b>Jagdish Thakral</b>		
Shri Hariram Export Pvt. Ltd. (Manufacturer)		
Email: <a href="mailto:jthakral@kailashgroup.com">jthakral@kailashgroup.com</a>		
Phone : 07122734041		

Product Name	Qty	Grade
Polyacrylamide		
Hydrochloric Acid		
Industrial Safety Mask		

Details : Bulk requirement

**Amit Dave**

Amit International (Distributor)

Email : [amitintl@zoho.com](mailto: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](mailto:anamika@punjabchemicals.com)

Mobile : 9867724805

Product Name	Qty	Grade
EDTA Tetra Sodium Liquid	-	

Details :

**Parthiv**

Shiv Chem Industries (Manufacturer)

Email : [chelateshivchem@yahoo.co.in](mailto: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](mailto: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 <b>Adesh</b> <b>J.K.Industries, Deoband (Trader)</b> <b>Email : <a href="mailto:jkind.dbd@gmail.com">jkind.dbd@gmail.com</a></b> <b>Mobile : 9412113914</b>		

Product Name	Qty	Grade
Mercuric Chloride		
Details : <b>Surendra Agrawal</b> <b>Ankur Chemicals (Manufacturer)</b> <b>Email : <a href="mailto:ankurchemical@yahoo.com">ankurchemical@yahoo.com</a></b> <b>Mobile : 09352500959</b>		

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 : <b>Prashant Satpute</b> <b>Sauradip Chemical Industries Pvt. Ltd. (Manufacturer)</b> <b>Email : <a href="mailto:prashant.satpute@sauradip.com">prashant.satpute@sauradip.com</a></b> <b>Mobile : 09769015004</b>		

Product Name	Qty	Grade
Solvent Dyes (solvent yellow 82 & orange 62)		
Details : <b>Prakash Patel</b> <b>NAVDURGA DYES &amp; CHEMICAL (Manufacturer)</b> <b>E-mail : <a href="mailto:navdurgadyes@gmail.com">navdurgadyes@gmail.com</a></b> <b>Mobile : 9022673905</b>		

Product Name	Qty	Grade
Sanitizing Alcohol Swabs 70 percent IPA / 67-63-0 / 3005 / Isopropyl Alcohol / 70 percent / Medical	Bulk	Medical
Details : <b>Sameer Makhija</b> <b>Mak Medicals Private Limited (Manufacturer)</b> <b>Email : <a href="mailto:makmedicalsltd@gmail.com">makmedicalsltd@gmail.com</a></b> <b>Mobile : +91-987-140-8777</b>		

Product Name	Qty	Grade
Inorganic Salts		
Details : <b>Santosh Thakre</b> <b>S S Fine Chem Laboratories (Manufacturer)</b> <b>Email : <a href="mailto:ssfinechemlaboratories@gmail.com">ssfinechemlaboratories@gmail.com</a></b> <b>Mobile : +91-986-777-4142</b>		

Product Name	Qty	Grade
Borax	Bulk	
Details : <b>Sandip Agarwal (Distributor)</b> <b>Supreme Borochem Private Ltd</b> <b>E-mail : <a href="mailto:sandip@sbpl.co.in">sandip@sbpl.co.in</a></b> <b>Mobile : +91-983-100-1334</b>		

Product Name	Qty	Grade
General Tablets and Liquid Syrup		
NSAIDs		
Cough syrup		
Narcotics formulation		
Antibiotics		
Details : <b>Nirav Patel</b> <b>Indamed Pharmaceuticals Pvt. Ltd. (Manufacturer)</b> <b>Email : <a href="mailto:indamedpharma@yahoo.co.in">indamedpharma@yahoo.co.in</a></b> <b>Mobile : +91-968-787-7922</b>		





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# CHEMICAL MARKET

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

## *The future of Mobility...Lithium is the new oil!*

There's been a 700% growth in the stock price of the revolutionary car technology and energy company Tesla and that too just in 2020. It was a long pending break for those who invested in the company with Elon Musk leading the team at Tesla. What is more fascinating being the way Tesla is redefining the rules of the game starting from Energy to Cars to Oil and all to an extent where Big Oil and the countries producing it is at a loss of words! It is also challenging the people who were not supporting Climate Change and now the company is at it forefront to support the initiative of Climate Change.

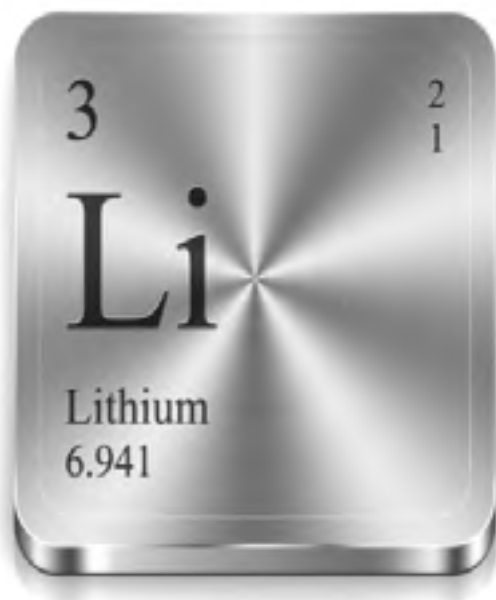
Just last week, the Indian government announced its plan to be self-sufficient in the next big global element called Lithium and Cobalt which are used in the battery technology for moving cars. The most important element is available in South American countries which includes Argentina, Bolivia and Chile (ABCs of South America's Lithium). These are the countries having the next big thing just like how Saudi Arabia dominated the oil market for so many years. The shift to renewable energy is happening at a record pace and Lithium is at the core of this change. Lithium involves complicated extraction. Lithium was discovered in 1817 by a Swedish chemist Johann Arfvedson. Lithium Oxide is used in special glasses; Lithium Stearate is used as a temperature lubricant. Lithium Hydride is used as a fuel and Lithium Chloride is used in

drugs to treat depression. Over 50% of the world's Lithium reserves are found in South America. 1/3rd of the reserves in this triangle are in Bolivia, close to 21 million tonnes. Argentina has the world's second-largest reserves at 17 million tonnes. Chile comes third with 9 million tonnes. Three other countries too have considerable amounts of Lithium. US has 6.8 million tonnes. Australia has 6.3 million tonnes. And China has

that could potentially last decades and make India self-reliant. New Delhi has started a massive effort to make India a world leader in Lithium batteries. A new company has been formed called Khanij Bidesh India Limited. It was incorporated by three state-owned companies including NALCO, Hindustan Copper and Mineral Exploration Limited. Khanij Bidesh will acquire mineral assets like Lithium and Cobalt which

are used in the batteries and have already signed a pact with a firm in Argentina. India will build its first Lithium refinery in Gujarat. The facility will process Lithium ore to produce battery grade lithium. According to a report from WION, India and Australia are working together to get the market share from China as it has 73% in global batteries manufacturing. To top it all Lithium makes up only 0.002 percent of the earth's crust.

- Rajiv Parikh



4.5 million tonnes. (based on inputs from WION). Lithium is the new oil. According to one research from Atomic Minerals Directorate, a unit of India's Atomic Energy Commission have estimated lithium reserves of 14,100 tonnes in a small patch of land surveyed in the Southern Karnataka district. India plans to buy Lithium to ensure supplies



# Asia-Pacific's Urban Development to Propel Global Construction Coatings Market by 2027, Finds Frost & Sullivan

ANTA CLARA, Calif., Dec. 9, 2020 /Frost & Sullivan's recent research, *Changing Construction Practices Transforming the Global Construction Coatings Market, 2020*, finds that the competitive environment in the sector is divided between regional companies and large market participants that are increasingly engaging in mergers and acquisitions and joint ventures among themselves. Larger coating companies have long-term relationships established with their key customers. However, many coatings manufacturers in this industry currently rely on third-party distributors. These companies realize the need for more direct customer interactions and are expected to improve their customer and supply networks in the next three to five years. The market is forecast to increase from \$13.37 billion in 2020 to \$18.15 billion by 2027 at a compound annual growth rate of 4.5%.

"The demand from the new construction sector was considerably affected by the outbreak of the COVID-19 pandemic. The country-wide lockdowns and international travel bans imposed around the world resulted in the disruption of the

global supply chains of construction raw materials," said Christeena Thomas, Senior Industry Analyst, Chemicals, Materials, and Nutrition Practice, Frost & Sullivan. "Asia-Pacific is the largest market for construction coatings, with high growth anticipated in China for all types of products. With increasing economic development and more people migrating to urban areas, the need for infrastructure improvement is escalating at



a rapid rate. The region is witnessing a surge in building construction activity for residential, commercial, and industrial sectors, driving market expansion."

However, according to Thomas, overall construction spending in the US is not expected to return to pre-pandemic levels before 2022. The construction of

retail shops, hotels, amusement parks, and recreation centers is likely to be the most affected. Healthcare, public safety, transportation, and data centers are anticipated to boost the demand for new construction.

"The growth of the market is greatly dependent on the execution of new construction projects and the demand for the repainting of existing buildings," Thomas said. "In addition, construction coatings face regulatory pressures from organizations such as the American Architectural Manufacturers Association (AAMA), US Environmental Protection Agency (US EPA), and REACH, which mandate the use of products with lower volatile organic compound (VOC) emissions and eliminate the use of heavy metals. Therefore, there is an increasing trend of customers moving to higher solids solvent-borne coatings, powder coatings, and waterborne coatings for lower VOC emissions, better specifications, and durability."

Read the full report : <http://frost.ly/4zi>

If you want your report abstract to be published please contact [Info@dyeschemicalmarket.com](mailto:Info@dyeschemicalmarket.com)

## Sinopec Targets Carbon Neutrality by 2030

Sinopec has established strategic cooperation with three top institutions in Beijing, China, to take lead in a joint research on the energy and chemical in-

dustry's carbon emissions peak and carbon neutrality.

Sinopec invited thought leaders and

experts in the fields of climate change, energy and chemical industry to conduct in-depth research on the strategic path of having CO2 emissions peak and





achieve carbon neutrality before 2030 following China's action plan.

Zhang Yuzhuo, a research fellow and academician of the Chinese Academy of Engineering and chairman of the board of Sinopec, noted that achieving the goal of reaching the CO<sub>2</sub> emissions peak and going carbon neutral is both a great responsibility and profound revolution for the energy and chemical industry.

"Sinopec will focus on green and low-carbon development from a strategic and overall perspective and move towards the goal of achieving 'net-zero' unswervingly, the company will follow the trends of global energy reform and general industrial development to study and determine its own strategic goals, key tasks, implementation approaches and guarantee mechanism," said Zhang. "Sinopec will also strengthen the communication and exchanges with government de-

partments and industry associations to better serve and support national and industry-related decisions."

In recent years, Sinopec has promoted its green and low-carbon development tactic for the corporate development



strategy, actively control its greenhouse gas emissions to achieve significant carbon emissions results. In the area of clean energy development, Sinopec has expanded its construction of natural gas production capacity and promoted the development of new energy resources

such as biomass energy and geothermal energy, while driving forward the development and utilization of hydrogen energy.

To strengthen the company's energy-saving management, Sinopec implements an "energy efficiency improvement" plan that accelerates industrial structure adjustment to phase out the outdated production capacity.

And in terms of greenhouse gas recovery and utilization, Sinopec is focusing on promoting the recovery and utilization of high-concentration CO<sub>2</sub> tail gas from refining and chemical enterprises, carrying out CO<sub>2</sub> flooding field tests and methane gas release recovery. The carbon trading transaction volume of enterprises participating in the pilot project has reached 11.1 million tons.

Read the full report : <https://www.indianchemicalnews.com/>

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## Collaborative Drug Discovery selected by Curve Therapeutics to Digitalize its Drug Discovery Platform

SAN FRANCISCO, Dec. 18, 2020 / PRNewswire/ -- Collaborative Drug Discovery (CDD) has today announced that its CDD Vault platform will be implemented by Curve Therapeutics Ltd. (Southampton, UK) to manage its genetically-encoded Microcycle platform and the functional hits and leads generated from it. Curve is an innovative drug discovery company that has developed a screening platform that directly identifies functional modulators of disease targets in their native cellular environment.

CDD Vault is a ubiquitous, hosted platform used by research teams at pharma, academia, and biotechs to store, mine and manage chemical, biological, and

image data from the discovery process. It allows the secure and seamless sharing of data with external partners in real-time thus facilitating true collaborative discoveries.

"It is important that all of our data is easily captured, mined and analyzed and CDD Vault has been straightforward to implement and use. The system will allow us to securely share data with collaborators and investors alike," said Prof. Ali Tavassoli, Curve's Founder and Chief Scientific Officer.

"We are delighted to see Curve Therapeutics growing as a company and increasing its pipeline of first-in-class cancer therapeutics. The small mol-

ecule leads being generated by Curve give a new hope to finding treatments for challenging diseases," said Dr. Barry Bunin, CEO of CDD. "We are proud to be able to support Curve Therapeutics in their drug discovery process. Curve has a great combination of technology and human capital that maximizes the potential of success of finding new cures for cancer and other diseases."

Read the full report : <http://www.collaboratedrug.com>

If you want your report abstract to be published please contact [Info@dyeschemicalmarket.com](mailto:Info@dyeschemicalmarket.com)



# BASF Opens New ASEAN Technical Development Center Housing State-Of-The-Art Pre-Polymer Reactor Technology

New facility boosts efficiency and ability to offer customized PU System products, and thus increase speed-to-market

Advanced pre-polymer reactor technology boasts the capacity to scale-up the production of polyurethane (PU) materials and solutions

BASF's PU solutions capable of meeting the most demanding customer requirements across all grades and applications, including appliance, furniture, and construction

Bangpoo, Thailand – December 17, 2020 – BASF today opened its ASEAN Technical Development Center adjacent to its existing Polyurethane (PU) System House at Bangpoo site in Thailand. The new facility houses a state-of-the-art pre-polymer reactor technology to produce a hardener (component B) – a key component to boost product development efficiency, thereby enabling faster time-to-market of PU materials and solutions.

The advanced reactor technology is further designed to deliver on a much larger capacity, meeting most demanding customer requirements across all grades. The new pre-polymer reactor technology is additionally capable of developing

customized PU System products, which helps improve the commercialization of these specialized solutions.

The ASEAN Technical Development Center also boasts several new service upgrades, such as more advanced testing and software capabilities. With the new pre-polymer reactor technology, the ASEAN Technical Center strengthens and complements BASF's technical support network in China, Korea, and



Germany.

“Through the ASEAN Technical Development Center, we are better positioned to support our customers and help them capitalize on growth opportunities in ASEAN across key industries and applications,” said Andy Postlethwaite, Senior Vice President, Performance Materials Asia Pacific, BASF. “Together with the expanded polyurethane system house, we are demonstrating our commitment to ASEAN, with even more reliable supply, as well as technical expertise and innovation capabilities.”

BASF previously increased the production capacity of its polyurethane system house in Bangpoo as part of a move to better meet the growing demand across automotive, consumer, construction, and industrial markets in ASEAN. With a total production area of 2,700 m2, the redesigned system house includes additional mixing vessels, reactors, and storage tanks.

**The ASEAN car market by production volume continues to grow with differentiated products and emerging applications. Thailand and Indonesia are among the largest automotive industries in Southeast Asia, while Vietnam is already one of the world's largest footwear exporters, and its industry is expected to grow as more manufacturers are relocating their manufacturing base there.**

Source : BASF

## Schevaran Laboratories Commemorates 32nd Foundation Day

Mumbai, 18th December 2020: Mysore-based Schevaran Lab-

oratories Pvt. Ltd., the revolutionary eco-friendly hygiene and cleaning and

chemicals firm, commemorates its 32nd

Continued on page 39



### INNOVATIVE PHARMACEUTICAL GRADES FOR HEALTHCARE APPLICATIONS

SABIC, a global leader in the chemical industry, has developed and launched two specialty grades for use in healthcare and hygiene applications as part of its commitment to meet customers' needs through innovative solutions.



**The company's innovative polyethylene glycol SAPEG 400/600 PH are intermediate products to produce liquid pharma preparations like syrup, and personal care products like cosmetics, creams, toothpaste and soap. The pharmaceutical grades have obtained all necessary approvals and certificates required by regulatory bodies in the EU and the US.**

"These new products show a true innovation toward diversifying our downstream industries as part of SABIC Strategy. This achievement is the result

of collaborative work from all stakeholders, particularly T&I, Manufacturing and global regulators," said Abdulrahman Al-Fageeh, EVP, Petrochemicals.

The new product launch in local and global markets is another major enhancement of SABIC's healthcare and hygiene portfolio. It is also part of the company's commitment to provide proper technical support to all customers across various markets. Moreover, the products are expected to create new business opportunities in the pharmaceutical segment.

Source :Sabic

### INEOS HYGIENICS RELEASES NEW RANGE OF TOUCHLESS DISPENSERS

- INEOS Hygienics, the new global healthcare business from INEOS, is releasing a new range of touchless dispensers to help prevent the spread of viruses and bacteria.
- Innovative design and precision Swiss-engineering ensures that the dispensers not only look good but are reliable, durable and functional. Available in two sizes, a variety of colours with customisation options, the dispensers have been designed to fit any environment and can be free-standing, table-top or wall-mounted. Initially the dispensers will be on sale in the UK with plans to expand to Europe, the USA and beyond in 2021.
- With hand hygiene more important than ever, the INEOS Hygienics touchless sanitiser dispensers can offer the public confidence to help keep the people they care the most about safe by dispensing hospital

grade sanitisers, trusted by doctors. The INEOS Hygienics dispensers compliment a sanitiser range, which is produced using INEOS' high-purity synthetic ethanol and includes hand sanitiser, sprays and wipes.

- George Ratcliffe, COO of INEOS Hygienics says, "It's fantastic to see the dispensers rolling off the production line. These clean, simple and reliable dispensers have been designed to meet the changing needs of the world, giving the public the confidence that they are able to keep loved ones safe by prioritising hand hygiene. Tried and tested by some of the world's best sports teams, our touchless dispensers can provide the public with the confidence they need in a changed world."

INEOS Hygienics is today launching a new range of precision designed and engineered touchless sanitiser dispensers for the home and work place.

The COVID-19 global pandemic has provided a stark reminder of the importance of good hand hygiene to prevent the spread of viruses and bacteria. As the world's largest producer of high-purity synthetic ethanol, INEOS responded by providing millions of bottles of hand sanitiser for free to the NHS and thousands of hospitals across Europe and the USA. With the world now adapting to a 'new normal' this same hospital grade sanitiser is now available through a new range of clean, simple and reliable touchless dispensers.

Designed with precision Swiss-engineering, the new range of INEOS Hygienics dispensers not only look great but are reliable, durable and functional. Features include touchless dispensing of hospital grade sanitiser, variable dosage settings, rechargeable lithium-ion battery, and lights to indicate low battery life and low cartridge levels. The sanitiser cartridges are affordable, easy to





change, and as all the raw materials are produced by INEOS there is security of supply.

The range of dispensers are adaptable for any space, be that in the home, at work, in shops, or restaurants and cafes, allowing the public to keep those that they care most about safe through good hand hygiene. Free-standing, table-top or wall-mounted, the dispensers also come in a range of colours and the free-standing units have a customisable stand.

The range of dispensers have been tried and tested by some of the world's best sports teams including the Mercedes-AMG Petronas F1 Team, the INEOS Grenadiers and INEOS TEAM UK. Initially, the dispensers will be available for purchase in the UK only, but the ambition is to expand this to Europe, the USA and beyond in 2021.

George Ratcliffe adds, "With the INEOS Hygienics dispenser we wanted it not only to be simple and reliable but also look good. We all need to take responsibility for helping to prevent the spread of viruses and bacteria and our dispensers can help the public to do this."

Source : Ineos

## HOHENSTEIN TESTS ACCORDING TO EUROPEAN GUIDELINES FOR COMMUNITY MASKS

BÖNNIGHEIM (ivs) Testing service provider and research partner, Hohenstein now tests according to the first European guideline for community masks, the CEN Workshop Agreement (CWA) 17553:2020. Hohenstein had already taken a big step towards safety

and functionality with the introduction of its quality label for Tested Community Masks. The new "Community Face Coverings-Guide to minimum requirements, methods of testing and use" sets minimum requirements for design, performance evaluation, labelling and packaging of both reusable and disposable masks.

Community masks are important in containing the spread of the coronavirus, SARS-CoV-2. But: to fulfill their function, they must meet certain requirements. The objective of the standard is to support manufacturers of masks who have switched production to non-medical, everyday masks. This will provide them with assistance regarding the requirements for such masks, which must also meet the legal requirements for textiles and satisfy certain functional demands.

Uniform product quality and durability standards across Europe are particularly important for containing the spread across borders. Clear product information helps consumers rely on the safety of community masks. The guideline can therefore also serve as a marketing aid for suppliers in international competition.

**Standardized test procedures at Hohenstein provide information as to whether everyday masks have sufficient breathability and filter performance. Other quality parameters include washability, fit and safety from harmful substances. Hohenstein also checks compliance with legal requirements and proper labelling and use instructions.**

Manufacturers of everyday masks can also earn the Hohenstein Quality Label for Tested Community Masks by proving product performance and certifying to STANDARD 100 by OEKO-TEX®.

Source : Chemical Market

## RINAC PRODUCES MOBILE ICU FACILITIES FOR COVID-19 RELIEF WITH BASF'S ELASTOPIR® SOLUTIONS

- Fully insulated and modular built mobile ICU facilities support India's pressing need for more hospital beds
- Elastopir® equips facilities with superior fire resistance and increased energy efficiency
- Best-in-class insulating material, Elastopir, is used in healthcare facilities for the first time

Mumbai and Bangalore, India – December 10, 2020 – Rinac India Limited (Rinac), India's leading insulated panel and refrigeration system producer, has recently produced mobile medical Intensive Care Unit (ICU) facilities made with BASF's Elastopir®, a high-quality polyurethane rigid foam insulation solution. Traditionally used in the construction of refrigerated spaces for cold storage and animal farming, Elastopir is being used for healthcare facilities for the first time. These facilities will support India's urgent need for more hospital beds during the COVID-19 pandemic.

Each mobile medical facility unit has five beds and is entirely prefabricated, making it easy to configure the number of beds based on the needs. It can also be redeployed to different locations across the country using trailers.





“We need the ICU facilities to be fully airtight and insulated to ensure the safety of our healthcare workers and minimize transmission of the virus,” said Soji Abraham, Senior Vice President Strategy at Rinac India. “Thanks to BASF’s Elastopir, the wall panels made with this excellent insulating material can help meet these requirements. With its extra high-temperature stability, the patients can recuperate comfortably with consistent indoor temperatures at 22-25 degrees celsius. Most importantly, Elastopir’s superior fire performance helps enhance the protection of these facilities against fires.”

By reducing air loss and solar gain, Elastopir lowers energy consumption and

helps increase the facilities’ energy efficiency. For the same insulation performance, panels produced with Elastopir are 50%-100% thinner than other traditional materials such as concrete. With thinner walls and envelopes, the mobile ICU facilities have more usable space and higher flexibility during construction.

“BASF is also sponsoring\* a unit of the ICU facility as part of its social engagement,” said Andy Postlethwaite, Senior Vice President of Performance Materials, Asia Pacific, BASF. “We aim to ‘go beyond’ by developing ever more innovative, sustainable solutions that help our customers, such as Rinac produce the highest quality and most energy-ef-

ficient insulation panels for their medical units.”

Apart from medical facilities, Elastopir can be widely used in cold stores and freezers to store perishable goods with its outstanding thermal insulation properties. The stable and consistent temperature and humidity levels can help keep food fresher and prolong the shelf-life. When used in livestock buildings, Elastopir helps farmers achieve lower heating bills, increase productivity, and improve animal health and working environments for the employees.

Source : BASF

## CHEMICAL TECHNOLOGY

### LYONDELLBASELL ADVANCES ADDITIVE MANUFACTURING WITH BEON3D POLYPROPYLENE COMPOUNDS

**R**otterdam December 15, 2020 – LyondellBasell (NYSE: LYB), one of the largest plastics, chemicals and refining companies in the world, today announced the launch of Beon3D, an innovative product family which allows for the unprecedented design and production of complex, high quality 3D printed objects in one step. Beon3D achieves this by combining polymer technologies with additive manufacturing. This new polypropylene (PP) product range aims at advancing the adoption of additive manufacturing in markets such as transportation, industrial and consumer goods, building and construction.

“For more than 70 years, our customers

have benefitted from LyondellBasell’s innovation and industry leading technologies. The Beon3D product line enables our customers to keep pace with the ever-changing manufacturing requirements by giving them access to a higher level of digital engineering and manufacturing efficiency,” says Jim Guilfoyle, Executive Vice President at LyondellBasell. “Our long-term leadership position in PP compounds and our extensive know-how in PP technologies continues to evolve making this new product line possible.”

While additive manufacturing is often associated with the production of single items, it can also be used for large-scale custom manufacturing. Polypropylene compounds are in many cases the material of choice in industrial manufacturing due to their good mechanical properties, scratch and chemical resistance, light weight, as well as resource efficiency.

With the launch of Beon3D, LyondellBasell brings all of these advantages to additive manufacturing and combines them with an easy processability

in extrusion-based processes. High hydrophobicity, acoustical and optical performance, as well as heat resistance complement the range of properties. Due to Beon3D compounds having high dimensional stability and surface quality, it allows for the design of complex, high quality parts. They also define a new benchmark in terms of production reliability, as well as resource and production efficiency.

While the use of PP compounds in additive manufacturing is still emerging, leading 3D printing industry experts foresee a bright future for this technology. Professor Dr. Rolf Muelhaupt, additive manufacturing expert from the University of Freiburg, Germany, states: “The combination of Beon3D advanced PP compounds and additive manufacturing will enable new material properties previously unthinkable. Producing sustainable finished products in one-step has become a reality today through the combination of design, digitization and manufacturing’

Source : LyondellBasell



## BASF CREATES NEW POSSIBILITIES FOR ELASTOLLAN® WITH SOFT TOUCH FEEL TPU SERIES DEVELOPED IN COLLABORATION WITH MEIBAN

- Elastollan Soft Touch Feel TPU series and Meiban's laser texturing technology enable high-quality textures and complex geometries
- Bright new vibrant colors transform consumer electronics accessories for different designs

Singapore – December 2, 2020 – The new Elastollan® Soft Touch Feel thermoplastic polyurethane (TPU) series creates new design possibilities with its exceptional touch, feel, and performance. With Meiban's laser texturing "Innovation Meiban Skin" (IMS) technology, Elastollan is making headway in the consumer electronics accessories market.

Meiban's IMS technology allows a variety of textures and graphics to be embossed on new materials. With the enhanced design versatility made possible by the technology, the Elastollan Soft Touch Feel TPU series is the ideal solution for consumer electronics accessories and products that style and functionality are crucial, such as watch straps, speakers, laptop covers. Fulfilling the ever-demanding requirements for functionality and comfort in consumer electronics, the Elastollan Soft Touch Feel TPU series possesses other mechanical properties suitable for wearables. These include excellent adhesion, non-transparent, and anti-slip capabilities on the glass.

Additionally, the new series enables ease of processing without any blooming is-

suces compared to traditional TPU. The material also stands apart with a new palette of color shades, providing different vibrant color options for brand owners.

"Meiban is consistently innovating in polymer technology and design," said Helen Ho, R&D Head of Meiban. "Through our partnership with BASF, we are excited to empower consumer electronic brands with high-quality designs, enabled by our IMS technology. This technology provides consumers with a better, stronger, and more versatile design option for their mobile and electronics accessories. It also enhances the look and feel of the products when applying on MedTech applications."

The collaboration complements BASF's established position in providing premium TPU materials to consumer electronics brands while delivering an ideal lifestyle solution. The comprehensive range of the Elastollan Soft Touch Feel TPU series for consumer electronics accessories will be featured in a toolkit collaboratively developed with Meiban. Brands will have an extensive selection of refined yet versatile accessory options to experiment and feel the materials. The offering includes watch straps crafted with Elastollan TPU material and intricate designs embossed by Meiban's IMS technology.

"The cooperation with Meiban provides a great opportunity to showcase the design flexibility of Elastollan in wearable devices," said Minli Zhao, Vice President, Consumer Industry, BASF Performance Materials. "The newly added soft-touch series reinforces our positioning as a total solution provider for consumer electronics brands."

Source : BASF

## JOINT DEVELOPMENT OF CATALYTIC

## TECHNOLOGY USING CARBON DIOXIDE AND SILICON COMPOUNDS

Tokyo, Japan—Tosoh Corporation and National Institute of Advanced Industrial Science and Technology (AIST) have jointly developed catalytic technology to synthesize diethyl carbonate, a raw material for polycarbonates and polyurethanes, using carbon dioxide (CO<sub>2</sub>) and a silicon compound as raw materials.

The project team discovered a catalytic reaction that synthesizes diethyl carbonate from CO<sub>2</sub> and the silicon compound (tetraethoxysilane). Because the reaction does not produce water as a by-product, it extends catalyst life and heightens reaction efficiency. Commercializing this technology is expected to contribute to a carbon recycling society where CO<sub>2</sub> becomes a resource for reuse. The research findings were presented in the online bulletin of industry journal ChemSusChem, published by Chemistry Europe, on November 24, 2020.

To drastically reduce CO<sub>2</sub> emissions from fossil fuel use, the need to develop carbon recycling technologies has increased. These technologies need to recover and reuse CO<sub>2</sub> as a raw material for application in various products.

On June 7, 2019, the Japanese Ministry of Economy, Trade and Industry's Agency for Natural Resources and Energy published The Roadmap for Carbon Recycling Technologies. The agency supposes oxygen containing compounds, such as polyurethanes and polycarbonates, as examples of the reuse of CO<sub>2</sub> in raw materials.

## Tosoh and AIST undertook collaborative research into developing catalysts



**for reaction of low-cost, low environmental impact, renewable raw materials with CO2 to manufacture oxygen containing chemicals. In this project, the team developed the tech-**

**nology to synthesize diethyl carbonate from CO2 and silicon compound by using specific catalysts.**

The research project team is working to improve its technology's reaction and catalyst to establish the lowest-cost,

most energy- and resource-saving production method possible. It is also applying itself to solving any technical problems to ensure the technology's practical application, including scaling up reaction volume. We aim for the practical application of its technology by around 2030

Source : Tosoh

## NEW PRODUCTS

### SABIC EXPANDS POST-CONSUMER RECYCLED ENGINEERING THERMOPLASTICS FOR CONSUMER ELECTRONICS AND E&E APPLICATIONS

Responding to calls from major brands in the consumer electronics business and electrics and electronics (E&E) industry as a whole for more sustainable materials, SABIC – a global leader in the chemical industry – announced that its engineering thermoplastics business is expanding its portfolio of CYCOLOY™ and LEXAN™ resins containing high levels of post-consumer recycled material (PCR). Typical applications for the portfolio will include consumer electronics and accessories such as chargers and adapters, printers, copiers and laptop housing.

The new PCR material is blended with the virgin material to create compounds with PCR levels of initially up to 30%. According to an internal SABIC LCA Study\*, these compounds offer potentially significant reductions in carbon footprint of up to 25% and in energy consumption of up to 30% compared to virgin material.

SABIC hopes to be able to offer materials with PCR content of up to 60% in 2021. The compounds and their properties will be tailored according to different industry requirements.

“The initiative to produce a broader portfolio of engineering thermoplastics with PCR content complements our existing efforts in making base resins from certified renewable feedstock. Together, our circular solutions from our TRUCIRCLE™ portfolio and services can help to improve plastic recyclability, lower emissions and drive towards closing the loop on used plastic,” said Sergi Monros, Vice President of Performance Polymers & Industry Solutions for Petrochemicals at SABIC. “Our vision of a circular economy requires collaboration across the value chain, and we are committed to working with downstream and upstream partners to drive the transformation needed.”

The extended range of materials will contain PCR polycarbonate coming from applications such as five-gallon water bottles and optical media. “Such products are made with clear polycarbonate, and they are easy to obtain, sort and clean,” continued Monros. “We are also investigating use of PCR polycarbonate from end of life automotive applications such as head-lights and dashboards.”

**Within the expanded portfolio, SABIC will also de-**

**velop materials to meet the various needs of different players in the market, grades with different levels of flame retardance, reaching up to 5VB @ 1.5 mm, targeting various business equipment applications and electrical applications such as internal components. The company will also offer grades with PCR content for applications that require good clarity. The new portfolio will therefore encompass both unfilled grades and grades containing filler.**

SABIC has set very strict requirements on the quality of the incoming PCR material, which it will acquire by partnering with approved suppliers who will source feedstock from around the world. SABIC will obtain the PCR material in ready-to-process granular form, to be compliant with China's policies on plastics waste.

The new PCR materials form part of SABIC's TRUCIRCLE™ portfolio and services, which showcases the company's circular innovations and can help





to provide manufacturers with access to more sustainable materials. In doing so, SABIC aims to help manufacturers give the end-consumer more confidence about buying products with the knowledge that the material can be recycled and repurposed, or that it has been produced in a way that can help protect our planet's natural resources. The TRUCIRCLE portfolio spans design for recyclability, mechanically recycled products, certified circular products from feedstock recycling of used plastic and certified renewables products from bio-based feedstock.

Source : Sabic

## BASF AND BILLERUDKORSNÄS COOPERATE TO DEVELOP UNIQUE HOME-COMPOSTABLE PAPER LAMINATE FOR FLEXIBLE PACKAGING

- Multi-layer film made of BillerudKorsnäs paper ConFlex® Silk as well as BASF's biopolymer ecovio® and lamination adhesive Epotal® Eco
- Home-compostable solution extends end-of-life options for flexible packaging applications
- Performance regarding processing, sealing, printability and strength on same level as conventional multi-layer films

Ludwigshafen, Germany/Solna, Sweden, December 3, 2020: BASF and the Swedish packaging manufacturer BillerudKorsnäs have cooperated to develop a unique home-compostable paper laminate for flexible packaging. The multi-layer film consists of three basic components: BillerudKorsnäs' pa-

per ConFlex® Silk, a sealing layer made of BASF's certified home compostable and partly bio-based biopolymer ecovio® and BASF's water-based adhesive Epotal® Eco 3675 X which joins the film to the paper. As all parts of the multi-layer laminate are food-contact approved, it can be used to produce wraps with individually adjusted barrier properties, e.g. for cookies, ice cream, cereal bars and dairy items as well as wrappers for fish, meat and cheese freshly sold in supermarkets. All components are certified home-compostable according to official European certification schemes for home-composting. The laminate contains a high share of renewables and extends the end-of-life options for multi-layer flexible packaging by being organically recyclable.

The new home-compostable solution has the same performance features as conventional multi-layer packaging: It is puncture resistant, shows a good printability, excellent heat-seal properties and can be processed on standard packaging machines. "We wanted to create a paper-based laminate with good heat-seal properties by using certified home-compostable components only", says Amir Pourirani, head of global marketing Biopolymers at BASF. "There is a huge trend in society, in some countries driven by legislation, to move from plastic to paper-based packaging. Moreover, currently available multi-layer flexible films are difficult to recycle but the technical need is still present. In BillerudKorsnäs we found the ideal partner to develop a home-compostable solution based on paper with a broader end-of-life option for packaging while maintaining the technical performance of traditional laminates." According to the targets of the „European Strategy for Plastics in a Circular Economy“ all plastic packaging should be recyclable or reusable by 2030.

"With BASF's certified home-compostable biopolymer and adhesive, we found the ideal components to take the next step towards another sustain-

able solution for flexible packaging in our portfolio", says Markus Saari, business development manager at BillerudKorsnäs. "Our joint development represents a shift to paper-based and compostable material in order to replace traditional laminates for food packaging - meeting hygiene and barrier requirements, maintaining form and enabling many design possibilities just like conventional packaging but with the decisive added benefit that it is home-compostable."

The sealable laminate is produced in a wet lamination process. The outer layer consists of BillerudKorsnäs' home-compostable kraft paper ConFlex® Silk, which is certified according to OK Compost Home by TÜV Austria. It shows good printability and high strength at a weight of 60 g/m<sup>2</sup>. It is based on a mix of 100% primary fibers. The inner sealing layer of the flexible packaging is made of a blown film out of a particular ecovio® grade by BASF, which also holds the "OK Compost Home" certification by TÜV Austria.

**The film is suitable for mono and co-extrusion and easy to seal. The sealing is laminated to the paper layer with BASF's water-based dispersion Epotal® Eco 3675 X. This adhesive is certified by DIN Certco as home-compostable according to DIN EN 13432, testing basis NF T 51-800. It can be processed like other adhesives by use of standard lamination machines and shows an excellent performance on different biodegradable substrates.**

Source : BASF





### PPG TO ACQUIRE GLOBAL COATINGS MANUFACTURER ENNIS-FLINT

PITTSBURGH PPG (NYSE:PPG) announced that it has reached a definitive agreement to acquire Ennis-Flint, a global manufacturer of coatings with a broad portfolio of pavement marking products, including paint, thermoplastics and other advanced traffic technologies. The transaction, valued at approximately \$1.15 billion, is expected to close within the next few months, subject to customary closing conditions.

“The acquisition of Ennis-Flint will further expand our product offering and opportunities in rapidly developing and high-growth mobility technology solutions,” said Michael McGarry, PPG chairman and chief executive officer. “The company is well known for its high-quality products, technical expertise and innovative systems. The addition of Ennis-Flint’s products further enhances our existing mobility technologies in support of increased automotive occupant safety through driver-assisted and autonomous driving systems. We look forward to the Ennis-Flint team joining PPG and working together to further expand the company’s product distribution on a global scale.”

**PPG formed a mobility focus team in 2017 to develop mobility technologies and innovative technical solutions that provide increased functionality and solve new and unique requirements for electric, hybrid and autonomous vehicles.**

**Mobility-related products developed by PPG include battery-specific coatings that deliver enhanced safety and performance, autonomous vehicle coatings that improve vehicle and infrastructure visibility, and interior coatings that increase surface functionality and durability.**

Ennis-Flint, a privately held company headquartered in Greensboro, North Carolina, is a global leader in pavement markings and traffic safety solutions with the industry’s most comprehensive and innovative product offering. Products are developed according to strict government guidelines and customer specifications, many of which are proprietary to the company. A high percentage of its product sales are derived from non-discretionary, essential maintenance spending. Ennis-Flint supplies a wide range of products, including traffic paint, hot-applied and preformed thermoplastics, raised pavement markers and intelligent transportation systems from a network of manufacturing facilities within the United States, Europe, South America, and Asia. The company employs approximately 1,000 people globally and its full year of 2020 revenue is expected to be approximately \$600 million, with mid-teen percentage EBITDA margins.

“We are excited to join the global PPG family,” added Matt Soule, president and CEO of Ennis-Flint. “Our products and technologies are excellent complements to PPG’s current product offering, and the ability to leverage PPG’s world-class innovation and broad geographical footprint will provide more growth opportunities for our products and employees in the future.”

PPG will provide additional details relating to the business acquisition, including acquisition-related financial impacts, during the company’s fourth quarter earnings conference call in January 2021.

Source : PPG

### UNIVAR SOLUTIONS AND DOW COATING MATERIALS ANNOUNCE NEW DISTRIBUTION AGREEMENT IN THE UNITED KINGDOM, IRELAND, AND TURKEY

LONDON, Dec. 17, 2020 /PRNews-  
Wire/ -- Europe, Univar B.V., a subsidiary of Univar Solutions Inc. (NYSE: UNVR) (“Univar Solutions” or “the Company”), a global chemical and ingredient distributor and provider of value-added services, announced today that Dow Coating Materials has authorized Univar Solutions as its distributor in the United Kingdom and Ireland for all coatings applications and in Turkey for industrial coatings applications. This includes all products in the PRIMAL™, EVOQUE™, MAINCOTE™, FASTRACK™, ROPAQUE™, OROTAN™, and ACRY SOL™ brands, each well-recognized and proven products in the coatings market. This portfolio of acrylic binders, styrene acrylic binders, rheology modifiers, and dispersants is produced in Europe and provides solutions across architectural, industrial, and wood coating applications.

“We are excited to deepen our distribution relationship with the Dow Coating Materials business from Dow. Univar Solutions is a global leader in the distribution of specialty chemicals for the



coatings industry and our continued collaboration with Dow will provide our customers in the United Kingdom, Ireland, and Turkey with an even more comprehensive product portfolio," said Joshua Hicks, vice president of global industrial solutions at Univar Solutions. "By bringing together a best-in-class product portfolio with industry leading service and market knowledge, we believe coatings manufacturers in the region will be able to further accelerate their growth."

The distribution agreement begins January 1, 2021 and expands Univar Solutions specialty portfolio including industry-leading silicones, pigments, fillers, and other resins used in various architectural, industrial, and wood coating applications. Through a global network of solution centers, Univar Solutions consistently provides customers with a comprehensive suite of technical, regulatory, market trend, and sourcing support for the coatings market bringing enterprise level scale and capabilities to the end-use formulation.

**"When looking for the right channel partner for our coatings business in the United Kingdom, Ireland, and Turkey we wanted to find a distributor that brings together market leadership, technical innovation, and high-levels of customer service. Univar Solutions clearly demonstrates its leadership in each of these areas," said Roberto Lazzari, EMEA distribution manager for Dow Coating Materials. "As global market leaders in the coatings market, Dow and**

**Univar Solutions together are well positioned to deliver business and technical success for our customers."**

Source : PRNewswire.

## **BASF BECOMES GLOBAL PREFERRED PARTNER FOR PAINT RELATED PRODUCTS TO LEADING OEM BRAND**

**For the next two years, RODIM® will be recommended to BMW authorized dealers and body shop networks in 44 countries.**

For the next two years, BASF becomes a preferred partner for the sales of paint related products (PRP) to the BMW global refinish network.

BASF's premium refinish brands Glasurit® and R-M® are existing preferred partners for the supply of paint solutions. Now, with the addition of PRP products including RODIM and other products, BASF strengthens its total offer in line with BMW's growth strategy. The latest agreement includes PRP products to BMW authorized dealers and body shop networks around the world.

"We are very excited to bring RODIM as part of a complete one stop shop offer to BMW. RODIM benefits from BASF's extensive experience in the coatings business and is perfectly aligned with our paint brands to help body shops streamline processes and optimize results," said Chris Jackman, Director of Strategic Account Management, BASF Automotive Refinish Coatings Solutions. "As a reliable and trusted total solutions partner, we ensure BMW customers have access

to the best combination of solutions to drive performance efficiently and safely," he said.

**RODIM is a perfect fit with BASF's branded refinish paint and paint processes and offers a choice of standard and premium accessories for personal protection raising overall standards on the shop level to optimize performance.**

**Glasurit and R-M continue to be recommended for refinish paint repairs of BMW and MINI cars at all BMW authorized dealers and body shop networks in 44 markets around the world. The current agreement already includes a dynamic portfolio of paint, training and digital color solutions as well as its advanced body shop management tools.**

Source : BASF

## **ARKEMA ACQUIRES COLORADO PHOTOPOLYMER SOLUTION**

Arkema announces the acquisition of Colorado Photopolymer Solutions, a company based in Boulder, Colorado, U.S.A., with strong technical expertise in photopolymer formulation for the fast-growing 3D printing market, with applications in the medical, composites,



construction and consumer goods sectors.

Colorado Photopolymer Solutions (CPS) develops and markets a range of value-added, formulated photopolymer resin solutions for energy curing technology, especially for 3D printing markets.

CPS's recognized expertise in formulation and materials design, supported by strong innovation capabilities, will enable Sartomer, a global leader in photocure resins and photoinitiators, to further support its customers and partner. The project will foster the development of an integrated offering of customized and formulated additive manufacturing solutions to accelerate the design of

turnkey solutions for the 3D printing market.

The acquisition, which was completed early December 2020, complements Sartomer's resin solutions and expertise, and is in line with Arkema's strategy to become a pure Specialty Materials player by 2024

Source Arkema

## INTERNATIONAL NEWS

### INEOS HYGIENICS BECOMES OFFICIAL HAND SANITISER SUPPLIER OF TOTTENHAM HOTSPUR

- INEOS Hygienics to provide high purity hospital grade sanitiser to players, staff and fans across the Club
- State-of-the-art touchless technology ensures product is dispensed safely across different areas of stadium campus and training facilities
- INEOS Hygienics' precision-designed, Swiss-engineered dispensers make their Premier League debut at Tottenham Hotspur Stadium

INEOS Hygienics, the global healthcare brand, has become the Official Hygiene Supplier to Tottenham Hotspur Football Club and the Tottenham Hotspur Stadium.

INEOS Hygienics is supplying the Club and the stadium with state-of-the-art touchless sanitiser dispensers, delivering hospital grade sanitiser to Spurs' players, staff and fans, in order to maintain good hand hygiene and reduce the spread of viruses and bacteria.

Built to be robust yet stylish, the touchless dispensers have been designed to blend in with all environments and effi-

ciently dispense hospital grade sanitiser. The dispensers will be used in the player dressing rooms, hospitality areas at the Club's world-class stadium, as well as its Enfield Training Centre and across the Club's executive offices.

This is the first time the precision-designed, Swiss-engineered dispensers have been used in the Premier League, further building on INEOS Hygienics' sporting credibility in football, Formula One, cycling and sailing.

INEOS Hygienics is also supplying personal hand sanitiser to players across the Men's and Women's First Teams and Academy as well as staff to help keep them safe when travelling and at home. George Ratcliffe, COO of INEOS Hygienics said: "We're proud to be able to partner with Spurs and supply the Club and the stadium with our new range of touchless dispensers and hospital grade sanitiser. As the first Premier League club to use our dispensers and hospital grade hand sanitisers, it shows the importance the Club is putting on good hand hygiene to help keep the players, staff and fans safe.

Fran Jones, Head of Partnerships at Tottenham Hotspur said: "The COVID-19 pandemic has made everybody change their behaviour and further underlined the need for good hygiene practices. It is essential that the Club supports and facilitates those changes in order to create safe environments across our estate including our stadium, training centre and executive offices. INEOS Hy-

gienics offers us a high purity, hospital grade sanitiser, which protects our Men's and Women's teams ensuring they can continue to train and play matches, as well as our staff and, of course, our fans."

Created during the COVID-19 global pandemic, INEOS Hygienics was established to meet the global shortage of hand sanitiser. As the world's largest producer of high-purity synthetic ethanol which goes into sanitisers, INEOS built six plants in 10 days each in the UK, Europe and the US, and provided millions of bottles of product free to the NHS and hospitals across Europe and the US at the height of the pandemic.

**As the world came out of lockdown over the summer, INEOS Hygienics shifted its focus to provide the same hospital grade sanitiser to the public, to help keep people safe and places open. INEOS Hygienics also ran a back-to-school campaign called ZERO Days: Back to School to support the reopening of schools across the UK by providing free resources for assemblies, classrooms and communal areas that**





## helped inform young people about the importance of hand hygiene.

As well as supplying product to the Club, INEOS Hygienics will be working with Spurs throughout the partnership on ZERO for elite sport; a programme that has been developed by Sir Dave Brailsford and helps elite sports teams reduce the number of days lost to preventable illness and injury.

Source : Ineos

## **SIBUR HOLDING PJSC SELECTED LYONDELLBASELL TECHNOLOGY FOR ITS AMUR GAS CHEMICAL COMPLEX IN FAR EAST RUSSIA**

ROTTERDAM, the Netherlands, December 15, 2020 – LyondellBasell (NYSE: LYB), the world's leading licensor of polyolefin technologies, today announced that the Amur Gas Chemical Complex project, being implemented by SIBUR Holding PJSC, the largest integrated petrochemicals company in Russia, has selected LyondellBasell's Spheripol technology for a new facility. The process technology will be used for a 400 KTA polypropylene unit to be built in Svobodny, Amur region, Russia.

**“We are honored that SIBUR has again opted to utilize the Spheripol technology for its Amur GCC project in the Russian Far East,” said Jim Seward, senior vice president of**

**research and development, technology and sustainability at LyondellBasell. Seward added: “The process robustness and CAPEX effectiveness of the Spheripol process allows SIBUR to create benchmark polymers on a sustainable basis.”**

“LyondellBasell's technology will help to achieve the highest level of diversification at Amur GCC and expand SIBUR's mostly homopolymer-oriented portfolio with a few PP random copolymers by adding a wide array of other copolymers, e.g. high-impact polypropylene-ethylene copolymers, and thermoplastic grades”, said Pavel Lyakhovich, Management Board Member and Managing Director of Basic Polymers Division at SIBUR. Total design capacity of AGCC is 2,700,000 KTA of PE and PP products.

Spheripol is the benchmark PP process technology with more than 30 million tons of licensed capacity. The latest fifth generation Spheripol technology includes process improvements that further maximize operational efficiency. The plant will commence operations using Avant ZN catalyst. New licensees can take advantage of LyondellBasell's in-house expertise of continuous production improvement, sustainable product development and catalyst knowhow, by optionally joining our Technical Service program.

Source : LyondellBasell

## **MAUÁ IS THE FIRST LATIN AMERICAN SITE TO PRODUCE EASTMAN 168™**

## **NON-PHTHALATE PLASTICIZER**

KINGSFORT, Tenn., December 04th, 2020 — Due to strong local demand, Eastman is now producing Eastman 168™ non-phthalate plasticizer at its Mauá plant in the state of São Paulo, Brazil. It's the first site in the country to produce this line of plasticizer, which is a preferred alternative for several applications, including footwear, children's toys, films, and plastisols.

"This is the first site outside the United States to produce Eastman 168, which sends a clear signal of our commitment to the region," said Luis Fernando Zagolin, Eastman product manager for general-purpose plasticizers. "We are determined to ensure that we remain an important market player in South America, providing a diverse portfolio of plasticizers to the local market."

**Eastman 168 is a non-phthalate plasticizer that has been safely used for more than 45 years, with proven performance in flexible PVC and a variety of other applications. It is a cost-effective, general-purpose, non-phthalate plasticizer with a clean toxicology profile.**

"Eastman is the world's largest plasticizer provider and is bringing our technology closer to the local community and making an important investment in Brazil," said Fernando de Vincenzo, commercial manager for chemical intermediates at Eastman. "This is an example of the strong responsibility we feel to the communities and regions where we do business."

Source : Eastman





*Continued from page 28*

Foundation Day on Friday, 18th December 2020. Known for its steady and successful growth under the leadership of Mr. Sam Cherian, Schevaran's foundation stone was laid in 1988 by Late Shri. K R Narayanan, then Minister for Science and Technology, Govt. of India, who later served as the 10th President of India.

**Speaking about the occasion, Mr. Sam Cherian, Founder & Managing**

**Director, Schevaran Laboratories Pvt. Ltd., said, "Schevaran has come a long way and grown multi-fold during the last 31 years of business. As we embark on our journey for the 32nd year, it reminds us of those days where hygiene, cleanliness and awareness of its significance were never**



**a priority in a common Indian's life and how our unparalleled effort over the years has helped changing the perception of individ-**

**uals and companies towards quality hygiene and cleanliness.**

**Through our highly formulated**

**products and distinctive solutions, we have been instrumental in imparting the knowledge of best cleaning practices in India as well as cater to the global requirements. I am proud to say that Schevaran was one of the very few companies in India to envisage Swachh Bharat, Make in**

**India, Make for World and Atmanirbhar Bharat decades earlier, with its ahead of the curve thinking."**

He further adds, "On this special day, I take the opportunity to thank our employees, clients, business partners, government officials, and industry peers for being an integral part of our journey. As always, we will continue to endeavour our efforts, spirit and innovation in keeping the nation hygienic, clean and healthy."

Today, Schevaran stands as an integrated player in Indian hygiene and cleaning industry. It has formulated close to 150 cleaning chemical products inspired by sustainable green technology, manufactured at its state-of-the-art facility in Mysore. The company aims to fulfil the hygiene and cleaning needs of every individual in the country through its signature brand Viroff, thus positioning it as people's brand. Schevaran's Viroff comprises hand sanitizers, hand wash liquids, wet wipes, disinfectant sprays, floor, wall and surface cleaners, vegetable and fruit wash solutions and so on. Viroff witnessed a tremendous success during the pandemic and was accredited as one of the safest products to use by customers.

Source : Chemical Market

## Sabic's Certified Circular PP Copolymer Selected For Unilever's Knorr® Bouillon Powder Containers

SABIC, a global leader in the chemicals industry, today announced that the company has been collaborating with Unilever and Greiner Packaging in the development of an innovative new Knorr® bouillon container using SABIC® PP FLOWPACT FPC45 certified circular impact polypropylene (PP) from its

TRUCIRCLE™ portfolio.

The selected certified circular polymer grade - SABIC® PP FLOWPACT FPC45 impact copolymer - from SABIC's TRUCIRCLE portfolio is a phthalate-free product and compliant with various European food contact regulations. It is

a drop-in solution that can replace fossil-based plastics in the packaging industry without compromising product purity and food safety. Additionally, the material offers very good flowability for ease of processing on standard injection molding equipment and robust performance for high stackability. Grein-



## VIEWS AND STATEMENTS



"Sinopec will focus on green and low-carbon development from a strategic and overall perspective and move towards the goal of achieving 'net-zero' unswervingly, the company will follow the trends of global energy reform and general industrial development to study and determine its own strategic goals, key tasks, implementation approaches and guarantee mechanism, Sinopec will also strengthen the communication and exchanges with government departments and industry associations to better serve and support national and industry-related decisions."

- Zhang



"We are delighted to continue our journey with Enkern, another example of our ongoing commitment to sustainable development. Over the past few years we have worked together to help set up the Enkern Alberta Biofuels plant and now, turning to Varennes, we are excited to advance the production of biofuels at national and international level. Suncor has a long history in the Montreal area dating back to 1919 and this kind of innovative technology will help us play a role in the future low carbon economy for many years to come."

- Martha Hall Findlay, Director of Sustainability, Suncor



"Radar sensors are a critical component of the ADAS suite, in part because they can operate in conditions such as poor visibility that impair LiDAR and camera functioning, To support technology advancement in the radar sensor market, which is rapidly growing, SABIC continues to develop specialty materials that can enhance sensor accuracy and reliability. Our growing portfolio of LNP compounds offers high absorption of radar waves as well as potential cost benefits compared to radar absorbing materials designed for military applications."

- Jeff Xu, LNP™ Product Manager, SABIC.



"Hydrogen is an important part of a climate neutral economy that has been discussed for decades. Finally, a hydrogen-fuelled economy is within reach as transportation in the UK, Germany, France and other countries begins to run on this carbon free technology. With extensive experience in electrolysis, INEOS is uniquely placed to support these new opportunities, driven by emerging demand for affordable zero-carbon energy sources."

- Wouter Bleukx, Business Unit Manager Hydrogen



"We are extremely pleased to have achieved the first production of bio-based MEG together with Braskem. Topsoe's strategic vision is to deliver technologies to reduce or even eliminate carbon emissions from the production of fuels and chemicals. Advancing technologies to produce bio-based chemicals and making them a commercially attractive option is an essential step on the way to a more sustainable future."

- Kim Knudsen, Chief Strategy & Innovation Officer at Haldor Topsoe



## VIEWS AND STATEMENTS



“By combining our capacity for innovation and the latest available technology, we have today reached a unique solution in the market using post-consumer recycled plastics. In our sustainable casings program, next to today’s achievement, we’re also in a position to offer bio-based alternatives to our customers. Today’s announcement is a result of the shared commitment to make food systems fair, healthy and environmentally friendly for a more sustainable future. This important project is being developed with the collaboration of important Viscofan customers like ElPozo.”

**- Óscar Ponz, Chief Plastic Business Officer at Viscofan:**



“3D printing is evolving rapidly and is revolutionizing and the development of advanced health care applications from concept to manufacturing, The range of services offered by PrinterPrezz which includes engineering, clinical and regulatory guidance as well as access to 3D simulation software and state-of-the-art 3D printers provides Solvay a gateway for the development and optimization of their high-performance polymeric AM powders to advance the manufacturing of next generation implants and medical devices.”

**- Shri Shetty, CEO of PrinterPrezz.**



“The unification of the brand for all solutions in favor of the circular economy reaffirms our commitment to this transformation. Plastic plays a fundamental role in our lives, being present in hospital solutions, durable goods, packaging and many others. We need to continue looking for sustainable alternatives, as well as reinforcing the importance of responsible consumption and the proper targeting of waste, through recycling, to maximize its benefits .”

**- Reinforces Fabiana Quiroga, Director of Circular Economy at Braskem in South America.**



“The EDB is supportive of Sumitomo Chemical’s plans to integrate the two technologies and implement them in Singapore. It is aligned, not only with EDB’s interests in increasing propylene supply to grow high value petrochemicals manufacturing on Jurong Island, but also in enabling a low carbon energy industry and chemicals industry in Singapore. We are heartened that an industry leader such as Sumitomo Chemical has chosen Singapore as the location to commercialise these innovative technologies.”

**- Mr. Damian Chan, Executive Vice President of the EDB**



“Diversifying the raw materials supply along with a strategic insight toward the production of differentiated value-added products is the main strategy to enhance our competitive advantage and maintain our leading position in the market. In addition, SABIC-Hadeed is driving its steel business strategy towards expanding its industry chain through upstream raw material integration.”

**- Al-Ansari**



er Packaging produces the containers with lids molded in the same material and supplies them together with folded cardboard sleeves. The space-saving, stackable design of the containers and lids further supports their sustainability during transport and storage before filling.

SABIC's certified circular polymers are produced through the feedstock recycling of used

and mixed plastic that could otherwise be destined for incineration or landfill. Difficult to recycle used plastic is broken down and taken back to the molecular level by heating it at a high temperature in an oxygen-free environment, producing pyrolysis oil. The pyrolysis oil then enters SABIC's production chain just like fossil-based feedstock to deliver new materials in compliance with strict quality requirements, such as the European food contact safety standards for food packaging.

The sustainability of the resulting polymers is certified by independent third-party laboratories under the International Sustainability and Carbon Certification (ISCC PLUS) scheme in a standardized mass balance approach, which provides a method of asserting the recycled material content along predefined and transparent rules. In addition, the widely recognized ISCC PLUS accreditation provides traceability along

the entire supply chain, from the feedstock to the final product.

"We are very excited about participating in this joint pilot project with Unilever and Greiner Packaging," comments Sergi Monros, Vice President of Performance Polymers & Industry Solutions for Petrochemicals at SABIC. "With our TRUCIRCLE initiative and portfolio, we

aim to bring commercially viable and more sustainable packaging solutions to the market and drive the transition of the plastics industry to a truly circular economy. Partnerships with major players across the value chain help address the technical and commercial challenges along this path and meet the increasing demands of end-users and consumers for environmentally conscious packaging with less waste and less resource depletion," Monros emphasizes and concludes: "Unilever's Knorr® container is an excellent example of this ambitious strategy."

The appearance, functionality and safety of the new Knorr® bouillon powder packaging is exactly the same as before and the quality is likewise as high as ever. Consumers can still simply remove the cardboard sleeve from the plastic container once it is empty before disposing and recycling of the two components as usual.

"By producing some of the containers

from certified circular polypropylene, we want to set a new standard on the market together with our partners and demonstrate what is possible with recycled materials in the food segment. We also want to keep pushing forward with this development. Here at Greiner Packaging, we are not only focusing on certified recycled PP – we are also working on our first projects and tests with mechanically recycled PS," explains Jens Krause, Sales Director at the Swiss Greiner Packaging site in Diepoldsau.

"Our goal is to continue making our packaging more environmentally conscious together with partners like SABIC and Greiner Packaging – especially in the food segment – without consumers having to lower their standards in terms of design, performance, user friendliness, stability, and food safety. Unilever is committed to cutting our use of virgin plastic in half by 2025. Turning Plastic Waste into Circular Polymer will be a key enabler in meeting that goal. We are now testing this using material produced from 100 percent certified circular polymer, with the goal of expanding across our portfolio by 2025," says Mike Ross Senior Packaging Manager at Unilever.

SABIC's complete TRUCIRCLE offering comprises design for recyclability services, mechanically recycled materials, certified circular products from chemical recycling of used plastics, and certified renewable polymers from bio-based feedstock.

Source : Sabic



## Bold Beautiful And Perfect For Blocking Clariants New Freedom Decorative Color Trends For 2021

- First edition of decorative color inspiration brings us back to earth with intense reds and passionate yellows
- To compliment prominent blush shades from past years, these warm hues are perfect for color blocking, a design trend here to stay
- Formulated with Clariant's Hostatint™ 500 pigment preparations

Muttenz, December 8, 2020 – As 2020 has seen us all spending





more time in our homes, there has been a huge growth of interest in decorating and re-imagining how we want our living, and now working, environments to look and feel. To help us make the most of our spaces, Clariant's latest 'New Freedom' Decorative Color Trends 2021, is full of creative colors to capture our imaginations.

At a time when we are all adjusting to the new normal they give us the freedom to discover what is important: the freedom to do something creative for ourselves and our loved ones, and; the freedom to focus on making our homes cozy environments in which we feel happy and at ease.

Global color institutions, interior designers and Clariant's operating customers who have their fingers on the design pulse provided inspiration for the palette of 13 different trendsetting tones. 2021's colors are also creating spaces that have more than a positive emotional impact. They have all been formulated with Clariant's Hostatint 500 range, multi-purpose pigment preparations with low VOC (Volatile Organic Com-

pounds) and no APEO (alkylphenol ethoxylates). They are binder-free, and deliver technical design freedom in water and solvent-based modern decorative paints.

**"It's well known that colors can reflect and influence our emotions and well-being so we have chosen bright warm and neutral color shades in our latest collection to help create spaces that have a positive impact," said Franziska Hammerl, Segment Head Decorative and Wood Coatings, Global Technical Marketing Coatings at Clariant.**  
**"One stunning 2021 color, for example, is Meraki, Greek for an outburst of dedication, an intense red.**

**Another is Ubuntu, a Nguni Bantu term meaning 'humanity'. It's a warm, intense yellow that reflects a bond of sharing, connecting all of humanity, and seems particularly relevant today."**

These bold shades are ideal for color blocking – an interior design trend here to stay. It may have started on the fashion catwalks but the pairing of different solid colors and textures, to boldly segment space in our homes, continues to be a much used decorating tactic.

Clariant has also nominated a color of the year included in the "New Freedom" Decorative Color Trend palette. Wabi-Sabi gray, with soft violet undertones, is inspired by Japanese aesthetics and the concept of appreciating the beauty found in the imperfections of nature. It is an imperfect gray that can be combined perfectly with any other color.

Source : Chemical Market

## ZTE Publishes a White Paper on Commercial Deployment of 5G SA

**S**HENZHEN, China , Dec 22, 2020 / SPNNewswire / - ZTE Corporation (0763.HK / 000063.SZ), a leading international provider of mobile internet technology solutions for telecommunications, businesses and consumers, has launched a white paper on the commercial rollout of 5G SA, published by Mobile World Live. It demonstrates that SA is the largest target architecture of 5G and lays a solid foundation for fully utilizing the application value of 5G.

The white paper addresses the challenges and solutions of 5G SA, encompassing integrated coverage, multi-RAT co-existence, end-to-end network slicing,

and enterprise-oriented 5G network and service applications.

In terms of integrated coverage, three factors such as serialized 5G NR products for flexible total scenario coverage, uplink enhancement technology, coordinated high-frequency and low-frequency networking are the key to integrated cost-content coverage.

In turn, converged network architecture, NSA / SA dual-mode BTS and SuperDSS can achieve the coexisting and smooth evolution of multi-RAT networks.

As a critical function of 5G, network slicing can be done in an end-to-end network and management system. Some cutting-edge technologies and products, such as end-to-end slicing, 5G lite, integrated UPF, and MEC have been introduced in industry private network deployments and service applications. .

In addition, the white paper has also introduced some business-oriented 5G application success stories; for example, the 5G remote control of the Tianjin Smart Port quay cranes , and the ZTE Nanjing Smart Factory, where ZTE's 5G equipment is efficiently produced with the 5G network.



The white paper expects that the 3GPP R16-based 5G network will be put into commercial use in 2022 to explore the values of 5G applications.

ZTE is a provider of advanced telecommunications systems, mobile devices and business technology

solutions for consumers, operators, businesses and public sector customers. The company is determined to offer customers comprehensive innovations to deliver excellence and value as the telecommunications and information technology sectors converge. ZTE is listed on

the Hong Kong and Shenzhen Stock Exchanges (Stock Code H: 0763.HK / Stock Code A: 000063.SZ) and sells its products and services in more than 160 countries.

Source : PRNewswire

## Archroma Tops Institute of Public & Environmental Affairs (IPE) List of Industrial Chemical Companies Driving Supply Chain Transparency

Reinach, Switzerland, 23 November 2020 - Archroma, a global leader in specialty chemicals towards sustainable solutions, has been recently ranked number 1 in the "industrial chemicals" list published by the Institute of Public & Environmental Affairs (IPE) for driving transparency in their supply chain.

Archroma also entered the Top 50 of companies in IPE's Green Supply Chain CITI Evaluation, at the 47th position. The evaluation dynamically assesses brands on the environmental management of their supply chains in China.

Archroma supplies industries as diverse as textiles, fashion, packaging, paper, adhesives, paints, and construction, with innovations and solutions that can be found in many consumer goods, from paper and packaging, to home décor paints and textiles, to clothing and car seats.

With a wide array of products used every day, everywhere, the company is committed to operate along the principles of "The Archroma Way to a Sustainable World: Safe, efficient, enhanced, it's our nature". The Archroma team is therefore committed to sourcing safe and sustainable raw materials and intermediates from like-minded partners.

Archroma's efforts in this area have been noticed and rewarded earlier this year



with the EcoVadis Gold award.

Heike van de Kerkhof, CEO of Archroma, recently delivered a message at the IPE 2020 Green Sup-

ply Chain Forum online, and commented: "As industry leader, we have the responsibility to keep on addressing the climate challenge, and to do everything we can together to reduce our impact on the environment. This is where the approach of the Institute of Public & Environmental Affairs supports us. They encourage us to challenge our suppliers in terms of safety, health and environment, and to go even beyond our own strict policies and processes."

"We congratulate Archroma for its excellent acceleration of supply chain oversight during 2020", said Linda Greer, Ph.D., IPE's Senior Global Fellow, "and we are delighted to welcome them into our Top 50 in their very first year. We hope that companies sourcing chemicals for manufacturing take note of this leadership in sustainability, as it is so rare to see in the chemical sector."

Source : Chemical Market

## Clariant Active Ingredients Unveils Future-Ready Beauty Inspired By Traditions Called Retrofuture

- Trusted and nature-derived ingredients empowered by science to deliver on the efficacy and low environmental impact needs of modern beauty
- 3 new formulations adapting "trusted classics" to new application formats with powerful scientifically-proven ingredients
- Advanced environmentally-responsible technologies

Muttenez, November 24, 2020 – Clariant Active Ingredients announces



the launch of “RetroFuture”, inspiration-formulation ideas to bring comfort in today’s unsettled times. Consumers can find reassurance in skincare with the time-tested well-being powers of traditional, natural ingredients, brought up to date with modern needs for scientifically proven advanced efficacy and lower environmental impact.

Living with climate change, global health pandemics, political and job insecurity, increasing social isolation etcetera, creates significant stress and uncertainty about the future. People are known to become nostalgic as they seek balance and stability, pursuing refuge in cherished memories and trusting all that is familiar, like childhood experiences, old recipes and remedies, nature and local surroundings.

“One effect of so much change is that well-being is becoming more important in decision making[1]. Stress-reducing self-care is on the rise,” comments Charlotte Stricane, Application Development Manager at Clariant Active Ingredients. “In the UK alone, 45% of 16-34 year olds have used beauty and personal care activities to reduce anxiety since this year began[2]. And globally, we see care for the environment becoming a higher priority too. Through our nature-derived ingredients and formulation format suggestions, we’re delighted to support formulators with inspiration for future-ready beauty products that embrace cravings for the safety of familiarity together with the security that comes from science-backed efficacy and more environmentally-respectful production.

In RetroFuture, customers can embrace the future with a trusted and traditional foundation that will provide the basis for new, modern natural-focused skin care. Classic formats are reinvented for new application areas or novel application techniques.

Extracts of traditionally favored ingredients, including western medicinal herbs used by the Ancient Greeks, ayurvedic

plants, herbs and spices used in Chinese medicine, and plant-derived molecules with long established efficacy, are complemented by technologically advanced highly concentrated active ingredients sourced with minimal depletion of plant or vegetal resources. For example, via Plant Milking Technology[3] with its non-destructive cultivation and harvesting of aeroponically grown roots, use of plant stem cells, or a biotechnological fermentation process to create natural derived active compounds. The cultivation and extraction processes for these advanced actives are always respectful of the environment and resources. They also enable an increased yield of extracts which have a significantly high concentration of active molecule, ensuring enhanced performance and greater formulation efficacy.

Each formulation is cross-generational, providing a wide range of benefits to support modern skin care needs for hydration and safeguarding the skin matrisome. The significant proportion of nature-derived ingredients supports formulators in increasing the natural content of their formulations.

D-Stress Jelly Face Serum: this thick and bubbly jelly serum captures the past and future through a time-tested classic gel chassis transformed to new sensorial and application heights. Designed for innovative brush application, it leaves skin as light and hydrated as needed. Sustainable hydration is delivered by resynchronizing skin’s natural rhythm with B-Circadin®, based on the flower and stem extract of the roundhead lespedeza, and by mimicking skin’s own support system with HerbEx™ Hyaluron 1.0. Prenylium®, an extract derived from the roots of the white mulberry tree, completes the action. Targeted root stimulation means it is packed with prenylated flavonoids for high efficacy matrisome protection properties for a youthful skin.

Nourishing Hand Mask: particularly relevant for countering the dehydrating,

irritant effects of frequent handwashing and sanitizing as well as exposure to indoor pollution. This rich mask from Mother Nature and the best of science leaves skin refreshed and bolsters its natural defenses, even for hypersensitive skin. It draws on traditional Chinese medicine practices and Korean traditions, featuring one of the most popular herbal remedies – ginseng – in the form of HerbEx Korean Ginseng Extract to provide protection from UV damages. This is complemented by active Eosidin®, an extract of green citrus unshiu peel from sustainable sources enriched in highly potent molecules known to regulate immunomodulation and decrease sensitivity. Moisture levels are increased naturally with long-lasting effects thanks to skin-mimicking moisturising molecules.

Thin to Thick Skin Oil: the beautiful yellow oil is dispensed in a novel way via a roll-on pen and provides strength to the thin skin areas like the lips and eyes contours. Derived from a traditional face oil serum format, this modern twist, made with scientifically enhanced natural emollients, including familiar favorites like camellia seed and olives, brings support and soothing to the most fragile areas of the face.

Fuligo Wax brings its skin elasticity support while Rootness™ Energize, sustainably sourced from the roots of luffa cylindrica, delivers a boost of energy thanks to its rich concentration of bryonolic acid, illuminating the eye area and smoothing the lip contours.

Get inspired by our Clariant Active Ingredients experts presenting new formulations for natural-focused skin care and discover trusted classics paired with new application formats and powerful scientifically-proven ingredients. Register here for the webcast to secure a place in one of the two live sessions.

Source : Chemical Market



# Getting To The Root Of Cleaner Skincare

**M**uttenz, December 10, 2020 – Calls for ingredient transparency are getting louder. With many terms – clean, all-natural, organic, vegan, no-nasties, cruelty-free etc. – bandied about often interchangeably, no wonder it's tough for consumers to make informed Clean Beauty product choices. Can Clariant's active ingredients help brands build trust beyond efficacy alone? The 2020 industry awards certainly say yes!

## Getting to the root of cleaner skincare

Beauty is in the eye of the beholder, said Plato. Perhaps nowadays we can apply it to "Clean Beauty" too, since it means different things to different people. All-natural, organic, vegan, no-nasties, cruelty-free, green... with many terms bandied about, often interchangeably, little wonder these trend followers can get confused when it comes making informed product choices.

As consumer calls for more transparency on ingredient information and labeling get louder and stronger, Clariant Active Ingredients is on a mission to make a positive difference and equip formulators and brands with sustainable active ingredients that get what consumers want. It's an approach that's attracting wide industry praise. Sustainable ingredient sourcing, greater extract efficiency and a customer-oriented approach were key factors in Frost & Sullivan's decision to award its 2020 European New Product Innovation Award to natural anti-aging active Prenylum™, for example. One award of many in 2020.

We asked Clariant Active Ingredient's Head of Marketing, Alexandre Lapeyre for some quick insight and how successfully answering growing customer demands goes beyond efficacy alone for modern skincare.

**Alexandre, the beauty industry has always relied on building loyalty be-**

**tween brand and consumer. Trust is central to that. How do today's active ingredients fit in to the picture?**

Active ingredients are crucial to bringing care-related performance to a skin care formulation mix. Ideally, delivering a benefit consumers are after, such as anti-aging properties, from plant-based extracts. And with proven efficacy through evidence-based results. Skincare consumers the world over now expect proof of promises. It's vital to the trust building process.

Today's active ingredients however have the chance to do more than just being effective at doing a job. They present an opportunity to deliver transparency when it comes to ingredient sourcing and compliancy with ethical labels. Filling the demand gap here as well, can give a brand a credible trust-building differentiator for developing stand-out products.

## What are the challenges to producing such active ingredients?

The Personal Care industry may be experiencing momentous growth, but stringent regulation procedures and fast-paced shifts in consumer preferences mean that maintaining a price/performance balance while developing natural active ingredients is a challenge. It's restricting the innovation rate and market growth.

It takes significant expertise and capabilities to overcome the cost- and time-intensive challenges of getting a new ingredient on the approved list, complying with strict regional regulations, surviving potential raw ingredient shortages, and ensuring full traceability, from cultivation right up to when the extract finally gets added to the mix. In the current climate, that's an uphill struggle for many active ingredient producers.

## What's Clariant Active Ingredients' award-winning approach?

We made a conscious decision to cut through the noise with strong, clear positioning – trend-setting nature-derived solutions that target and match growing beauty performance needs with proven quality and reliability and full traceability.

We offer robust clarity on efficacy and responsible sourcing to support our customers in making clearer claims. Whether they are going 100% "Clean Beauty" with their product or taking steps in that direction. We even suggest formulation concepts via our Sc[ai]turalist brand for formulators, to inspire them to combine actives in a recipe that meet with consumer requirements, demands and trends. Get inspired by our latest RetroFuture formulations.

We're very committed to filling demand gaps and improving the whole customer experience. And are proud to be receiving recognition from the industry for our prominence as a customer-oriented brand. Our focus on delivering innovative, consumer- and trend-oriented products with substantiated claims is helping us to stand out from our peers. And was fundamental in Frost & Sullivan's decision to place us Best-in-Class with their 2020 New Product Innovation Award in the European sustainable anti-aging active ingredient industry.

## What's the secret?

In the spirit of transparency, we're proactively open. We use the science of technologically-advanced sustainable cultivation and extraction techniques to empower nature's own regenerative and protective active compounds found in plants. Many of which have been used for centuries in plant-based Traditional Chinese Medicine, Ayurveda and other traditional uses in Asia and the Ameri-





cas. And create unique extracts rich in beneficial molecules that in turn empower formulators and brands in developing superior products.

Like catering to the growing demand for anti-aging, natural and sustainable products with well-aging skincare award-winners Prenylium, Rootness™ Energize and Epseama™. Or addressing hormonal aging with highly-sustainable skin sensitivity fighter Eosidin® and many more.

All with a keen eye on balancing economic and performance value and sustainability commitments.

**How can customers be sure of your claims, be that efficacy, origins or traceability?**

Scientifically-backed evidence and engagement are key. We use many platforms to engage with the industry and communicate an ingredient's effectiveness, proven using multiple in-vitro, ex-vivo and clinical tests, as well as the origins.

We ensure full traceability from seed to active, sharing details on cultivation and extraction processes designed to reduce waste, limit environmental impact and be non-food competitive. Plus we'll always give clear guidance on label or protocol compliancy. Whether it's a stem cell extract or plant culture-derived. Like our premium root power labeled products for skincare trends based on our partnership with French PAT. Here too, we bring clarity. A dedicated label helps customers recognize and easily

find the products.

**At the end of the day, we want formulators and brands to create trend-setting solutions to consumer needs. The best way to do that is for us to enhance our own customers' experience. Give them the actives they need to stand up to consumer scrutiny on traceability and efficacy. To help build that trust.**

More Information [www.clariant.com](http://www.clariant.com)

Source : Chemical Market

## Shelley D Minter to Lead ACS AU Suite of Open Access Journals

WASHINGTON, Dec. 7, 2020 — The Publications Division of the American Chemical Society (ACS) has appointed Shelley D. Minter, Ph.D., of the University of Utah as editor-in-chief of a portfolio of nine open access journals, all to be launched in 2021. The ACS Au family of journals will each focus on specific fields relevant to ACS and will be compliant with the requirements of "Plan S" and of funders who require publication in completely open access journals.

The ACS search committee identified and chose Minter for her strong and compelling vision for the journals, supported by the breadth of her research expertise spanning the topical areas of these new journals. Her familiarity with open access developments, her outstanding editorial experience, and her commitment to diversity, equality and inclusiveness as noted by her current service as chair of the Department of

Chemistry's Diversity, Equity and Inclusion Committee at the University of Utah, all support her appointment.

"Open access is clearly the future of scientific publishing," says Minter. "I am excited about the opportunity to support ACS Publications' move in this direction with this new suite of discipline-specific open access journals."

Minter is the Dale and Susan Poulter endowed chair of biological chemistry and associate chair of chemistry at the University of Utah. There, she manages a multi-disciplinary research group with a broad range of current projects, including electrocatalysis, batteries, organic electrosynthesis, synthetic biology and electrochemical biosensors. Minter received her Ph.D. in chemistry from the University of Iowa. She has been an associate editor for the Journal of the American Chemical Society since 2016.

**"I'm delighted to welcome Professor Minter as editor-in-chief of this new portfolio of journals, and I am confident she has the vision, experience and drive necessary to develop each title's reputation and scope," says James Milne, Ph.D., president, ACS Publications Division. "This ambitious portfolio is a significant investment in ACS' belief in an open access future, and a new commitment to our authors. As more of our author community wants or needs to**



## International Market Prices as on 06-Jan-2021

ChemicalName	Price	Region
Acetic Acid	\$ 279 / mt	FOB China
Acetic Acid	\$ 310 / mt	CFR South Asia
Acetic Acid	\$ 325 / mt	CFR South East Asia
Acetic Acid	\$ 320 / mt	CFR Far East Asia
Acetone	\$ 1350 / mt	FOB Rotterdam
Acetone	\$ 1014 / mt	FOB US Gulf
Acetone	\$ 750 / mt	CFR South East Asia
Acetone	\$ 760 / mt	CFR China
Acrylonitrile	\$ 970 / mt	CFR South Asia
Acrylonitrile	\$ 1065 / mt	CFR South East Asia
Acrylonitrile	\$ 1065 / mt	CFR Far East Asia
Benzene	\$ 435 / mt	FOB Rotterdam
Benzene	\$ 435 / mt	FOB Korea
Butadiene	\$ 610 / mt	FOB Korea
Butadiene	\$ 585 / mt	CFR South East Asia
Butadiene	\$ 615 / mt	CFR China
Butyl acetate	\$ 725 / mt	FD North West Europe
Butyl acetate	\$ 747 / mt	FOB Rotterdam
Butyl acetate	\$ 550 / mt	FOB US Gulf
Caprolactum	\$ 1000 / mt	CFR South East Asia
Caprolactum	\$ 1020 / mt	CFR Far East Asia
Caustic Soda	\$ 283 / mt	CFR South East Asia
Caustic Soda	\$ 232 / mt	FOB North East Asia
Crude Oil (\$/barrel)	\$ 43 / mt	OPEC BASKET
Crude Oil (\$/barrel)	\$ 41 / mt	MARS US
Crude Oil (\$/barrel)	\$ 42 / mt	BRENT CRUDE
Crude Oil (\$/barrel)	\$ 39 / mt	WTI CRUDE
DOP	\$ 940 / mt	CFR Far East Asia
DOP	\$ 1040 / mt	CFR South East Asia
DOP	\$ 925 / mt	CFR China
EDC	\$ 270 / mt	CFR South East Asia
EDC	\$ 275 / mt	CFR Far East Asia
Ethanol	\$ 1 / Gallon	US
Ethyl acetate	\$ 750 / mt	FD North West Europe
Ethyl acetate	\$ 777 / mt	FOB Rotterdam
Ethyl acetate	\$ 632 / mt	FOB US Gulf
Ethylene	\$ 760 / mt	FOB Korea
Ethylene	\$ 755 / mt	FOB Japan
Ethylene	\$ 735 / mt	CFR South East Asia
Ethylene	\$ 775 / mt	CFR North East Asia



Gasoline	\$ 1 / ltr	RBOB
Heating Oil	\$ 1 / ltr	US
IPA	\$ 1200 / mt	FD North West Europe
IPA	\$ 1314 / mt	FOB Rotterdam
IPA	\$ 1540 / mt	FOB US Gulf
Iso-mix xylene	\$ 460 / mt	FOB Korea
Iso-mix xylene	\$ 465 / mt	CFR South East Asia
MEG	\$ 490 / mt	CFR South East Asia
MEG	\$ 485 / mt	CFR China
MEK	\$ 1000 / mt	FD North West Europe
MEK	\$ 1075 / mt	FOB Rotterdam
Methanol	\$ 201 / mt	FOB Rotterdam
Methanol	\$ 250 / mt	CFR South East Asia
Methanol	\$ 235 / mt	CFR Korea
Methanol	\$ 196 / mt	CFR China
MTBE	\$ 409 / mt	FOB US Gulf
MTBE	\$ 412 / mt	FOB Singapore
Naphtha (\$/mt)	\$ 400 / mt	CFR Far East Asia
Naphtha (\$/mt)	\$ 371 / mt	European
Natural Gas	\$ 3 / MMBtu	New York
NBA	\$ 695 / mt	CFR South East Asia
NBA	\$ 730 / mt	CFR China
Octanol	\$ 845 / mt	CFR Far East Asia
Octanol	\$ 875 / mt	CFR South East Asia
Octanol	\$ 835 / mt	CFR China
Ortho xylene	\$ 465 / mt	FOB Rotterdam
Ortho xylene	\$ 530 / mt	FOB Korea
Ortho xylene	\$ 535 / mt	CFR South East Asia
Para xylene	\$ 465 / mt	FOB Rotterdam
Para xylene	\$ 535 / mt	FOB Korea
Para xylene	\$ 540 / mt	CFR South East Asia
Phenol	\$ 666 / mt	FOB Rotterdam
Phenol	\$ 546 / mt	FOB US Gulf
Phenol	\$ 705 / mt	CFR South East Asia
Phenol	\$ 650 / mt	CFR China
Phthalic anhydride	\$ 640 / mt	CFR Far East Asia
Phthalic anhydride	\$ 650 / mt	CFR South East Asia
Phthalic anhydride	\$ 620 / mt	CFR China
Propane	\$ 0 / Gallon	New York
Propylene	\$ 800 / mt	CFR South East Asia
Propylene	\$ 870 / mt	CFR China
Propylene	\$ 830 / mt	FOB Korea



Propylene	\$ 835 / mt	FOB Japan
Solvent-MX	\$ 405 / mt	FOB Korea
Solvent-MX	\$ 450 / mt	CFR South East Asia
Styrene	\$ 645 / mt	FOB Korea
Styrene	\$ 666 / mt	CFR China
Styrene	\$ 655 / mt	CFR South East Asia
Styrene	\$ 665 / mt	CFR Japan
Toluene	\$ 400 / mt	FOB Korea
Toluene	\$ 440 / mt	CFR South East Asia
Toluene	\$ 425 / mt	CFR China
Toluene T1	\$ 410 / mt	FOB Rotterdam
VAM	\$ 677 / mt	CFR South Asia
VAM	\$ 675 / mt	CFR South East Asia
VAM	\$ 650 / mt	CFR China
VCM	\$ 715 / mt	CFR South East Asia
VCM	\$ 670 / mt	CFR Far East Asia
Xylene solvent	\$ 430 / mt	FOB Rotterdam

### Port Prices (Rs/Kg) Tanker as on 06-Jan-2021

ChemicalName	Price	PortName	Exclusive Of
3,5 Lutidine	₹ 280 / kg	Ex-Bhilai	GST
2,3 Lutidine	₹ 780 / kg	Ex-Bhilai	GST
2,4-2,5 xyleneol	₹ 165 / kg	Ex-Bhilai	GST
Ortho cresol	₹ 160 / kg	Ex-Bhilai	GST
Meta Para Cresol	₹ 140 / kg	Ex-Bhilai	GST
Phenolic Resin	₹ 125 / kg	Ex-Indore	GST
Epoxy Resin	₹ 150 / kg	Ex-Nhava Sheva	GST
Epoxy resinB11 grade	₹ 150 / kg	Ex-Atul	GST
Epoxy resin YD128 grade	₹ 150 / kg	Ex-Birla Ankleshwar	GST
Hydrogen Peroxide-50%	₹ 33 / kg	Ex-Bhiwandi	GST
Heptane	₹ 85 / kg	Ex-Bhiwandi	GST
N-heptane	₹ 148 / kg	Ex-Bhiwandi	GST
Formic acid	₹ 40 / kg	Ex-Mumbai	GST
TDI	₹ 190 / kg	Ex-Bhiwandi	GST
Sulphuric acid	₹ 4 / kg	Ex-Vapi/Ex-Kolkata	GST
Soda ash	₹ 20 / kg	Ex-Bhiwandi	GST
Citric acid-ANHYD	₹ 53 / kg	Ex-Bhiwandi	GST
Citric acid-mono	₹ 50 / kg	Ex-Bhiwandi/Ex-Mumbai	GST
Adipic acid	₹ 85 / kg	Ex-Bhiwandi	GST





Tio2(Rutile grade)	₹ 190 / kg	Ex-Bhiwandi	GST
Tio2(Anatase grade)	₹ 160 / kg	Ex-Bhiwandi	GST
Paraffin Wax(fully refined)	₹ 70 / kg	Ex-Bhiwandi	GST
Paraffin Wax(fully refined)	₹ 65 / kg	Ex-Numaligarh	GST
Melamine	₹ 70 / kg	Imported	GST
Glycerine	₹ 51 / kg	Ex-Mumbai	GST
Hexane	₹ 51 / kg	Ex-Kandla	GST
MMA	₹ 107 / kg	Ex-JNPT	GST
Maleic Anhydride	₹ 67 / kg	Ex-Kandla	GST
Phthalic Anhydride	₹ 56 / kg	Ex-Mumbai	GST
Ethyl Acrylate	₹ 104 / kg	Ex-Kandla	GST
n-Propanol	₹ 110 / kg	Ex-Kandla	GST
VAM	₹ 54 / kg	Ex-Kandla	GST
Toluene	₹ 37 / kg	Ex-Mumbai	GST
Toluene	₹ 36 / kg	Ex-Kandla	GST
Styrene Monomer	₹ 55 / kg	Ex-Kandla	GST
Phenol	₹ 54 / kg	Ex-Kandla	GST
Octanol	₹ 73 / kg	Ex-Hazira	GST
Ortho xylene	₹ 45 / kg	Ex-Kandla/Ex-Hazira	GST
Propylene Glycol	₹ 90 / kg	Ex-Kandla/Ex-Mumbai	GST
N-butanol	₹ 67 / kg	Ex-Aegis	GST
Mix xylene	₹ 41 / kg	Ex-Kandla	GST
Mix xylene	₹ 42 / kg	Ex-Mumbai	GST
MDC	₹ 62 / kg	Ex GACL	GST
Methanol	₹ 20 / kg	Ex-Kandla/Ex-Mumbai	GST
MEK	₹ 92 / kg	Ex Kandla	GST
MIBK	₹ 98 / kg	Ex-Kandla	GST
DEG	₹ 38 / kg	Ex-Hazira	GST
MEG	₹ 40 / kg	Ex-Hazira	GST
Isobutanol	₹ 58 / kg	Ex-Hazira	GST
IsoPropyl Alcohol	₹ 77 / kg	Ex-Kandla	GST
Ethyl Acetate	₹ 58 / kg	Ex-Satyam	GST
EDC	₹ 28 / kg	Ex-Hazira	GST
Chloroform	₹ 19 / kg	Ex-GACL	GST
C9	₹ 42 / kg	Ex-Kandla	GST
Cyclohexanone	₹ 67 / kg	Ex-Kandla	GST
Cyclohexane	₹ 55 / kg	Ex-Hazira	GST
Caustic Soda Lye	₹ 18 / kg	Ex-Dahej	GST
Butyl diglycol ether	₹ 62 / kg	Ex-Kandla	GST
Butyl Acetate	₹ 64 / kg	Ex-Aegis	GST
Benzene	₹ 34 / kg	Ex-Vizaz	GST



Acetone	₹ 72 / kg	Ex-Kandla	GST
Aniline	₹ 63 / kg	Ex-JNPT	GST
Acetic Acid	₹ 28 / kg	Ex- Kandla	GST
Acetic Acid	₹ 28 / kg	Ex-Mumbai	GST

Indian Producer Prices as on 06-Jan-2021			
ProducerName	ChemicalName	Price	Exclusive Of
Adipic acid	Ex-BASF	₹ 100 / kg	GST
Adipic acid	Ex-Deepak	NA	GST
Andhra Petrochemicals	2-Eha	NA	GST
Andhra Petrochemicals	Iso-butanol	NA	GST
Andhra Petrochemicals	N-butanol	NA	GST
BPCL	Benzene	₹ 35 / kg	GST
BPCL	Hexane(kl)	₹ 55 / kg	GST
BPCL	MTO(kl)	NA	GST
BPCL	Paraffin Wax	NA	GST
BPCL	Sulphur	₹ 6 / kg	GST
BPCL	Toluene	₹ 36 / kg	GST
Deepak Fertilizer	IPA	₹ 115 / kg	GST
Deepak Phenolics	Acetone	NA	GST
Deepak Phenolics	Phenol	NA	GST
Ethyl acetate price	Ex-GNFC	NA	GST
Ethyl acetate price	Ex-Jublient	NA	GST
Ethyl acetate price	Ex-satyam	NA	GST
GACL	Soda Ash	NA	GST
GNFC	Acetic Acid	NA	GST
GNFC	Formic acid	NA	GST
GNFC	TDI	₹ 170 / kg	GST
Herdilia	Acetone	NA	GST
Herdilia	Phenol	NA	GST
Herdilia	Phthalic Anhydride	NA	GST
HOCL	Acetone	NA	GST
HOCL	Phenol	NA	GST
IOCL	DEG	NA	GST
IOCL	LAB	NA	GST
IOCL	MEG	NA	GST
IOCL	Paraffin Wax	NA	GST
IOCL	PTA	NA	GST
NIRMA	LAB	NA	GST
RIL	Benzene	NA	GST



RIL	Cyclohexane	NA	GST
RIL	DEG	NA	GST
RIL	LAB	NA	GST
RIL	MEG	NA	GST
RIL	Mix xylene	₹ 39 / kg	GST
RIL	PTA	NA	GST
RIL	Remex1	NA	GST
RIL	Renine	NA	GST
RIL	Toluene	₹ 38 / kg	GST
TATA Chemicals	Soda ash	NA	GST

**Note :** All above updates have been collected from importers and suppliers directly and verified by other suppliers, prices are verified and accurate. If you find any issue, kindly revert with details. NA indicates: Not Available

## Chemicals Updates official

Whatsapp - 95996-22045

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Kindly Mail or contact Us at [business@chemicalsupdates.com](mailto:business@chemicalsupdates.com)

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### CHEMICAL PRICES

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Select Port

Last Updated Price

Date	Chemical Name	Price/Unit	Portname	View Chart
7/7/2020	3,5 Lutidine	₹ 360 / kg	Ex-Bhilai	<a href="#">View Chart</a>
7/7/2020	2,3 Lutidine	₹ 790 / kg	Ex-Bhilai	<a href="#">View Chart</a>
7/7/2020	2,4-2,5 xyleneol	₹ 170 / kg	Ex-Bhilai	<a href="#">View Chart</a>
7/7/2020	Ortho cresol	₹ 160 / kg	Ex-Bhilai	<a href="#">View Chart</a>
7/7/2020	Meta Para Cresol	₹ 132 / kg	Ex-Bhilai	<a href="#">View Chart</a>
7/7/2020	Epoxy Resin	₹ 190 / kg	Ex-Nhava Sheva	<a href="#">View Chart</a>
7/7/2020	Hydrogen Peroxide-50%	₹ 33 / kg	Ex-Bhiwandi	<a href="#">View Chart</a>
7/7/2020	Heptane	₹ 85 / kg	Ex-Bhiwandi	<a href="#">View Chart</a>
7/7/2020	N-heptane	₹ 145 / kg	Ex-Bhiwandi	<a href="#">View Chart</a>
7/7/2020	DMF in drum	₹ 64 / kg	Imported	<a href="#">View Chart</a>

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for more product listing...

## PRODUCT LIST

1 Amino

AAKAR DYES AND CHEMICALS Pg 9

1 Naphthol

AAKAR DYES AND CHEMICALS Pg 9

2(4 Ethyl Benzol)

Mavani Chemicals Pvt. Ltd. Pg 13

2(4 Methyl Benzoyl)

Mavani Chemicals Pvt. Ltd. Pg 13

2, 6, Dihydroxy Naphthlene

AAKAR DYES AND CHEMICALS Pg 9

2 Naphthol

AAKAR DYES AND CHEMICALS Pg 9

3,6 Disulfonic Acid

AAKAR DYES AND CHEMICALS Pg 9

4- Sulfonic Acid

AAKAR DYES AND CHEMICALS Pg 9

6BA

Chemilife Enterprises Pg 12

6 Nitro

AAKAR DYES AND CHEMICALS Pg 9

## A

Acetic Acid

KRISHNA SOLVECHEM LTD. Pg 8

Acetone

KRISHNA SOLVECHEM LTD. Pg 8

Acetonitrile

KRISHNA SOLVECHEM LTD. Pg 8

Acetophenone

KRISHNA SOLVECHEM LTD. Pg 8

Acetyl H. Acid

AAKAR DYES AND CHEMICALS Pg 9

Acid Green-16

AAKAR DYES AND CHEMICALS Pg 9

Acid Orange 156

Mavani Chemicals Pvt. Ltd. Pg 13

Acid Orange Liquid

HIREN ENTERPRISES Pg 11

Acid Yellow 36

Mavani Chemicals Pvt. Ltd. Pg 13

Acid Yellow 219

Mavani Chemicals Pvt. Ltd. Pg 13

Acrylonitrile

KRISHNA SOLVECHEM LTD. Pg 8

Alizarine Red

Mavani Chemicals Pvt. Ltd. Pg 13

Alpha Methyl Styrene

KRISHNA SOLVECHEM LTD. Pg 8

Amido G. Acid to Gamma Acid

AAKAR DYES AND CHEMICALS Pg 9

Amino ISO J Acid

AAKAR DYES AND CHEMICALS Pg 9

Ammonium Bi Carbonate

KRISHNA SOLVECHEM LTD. Pg 8

Aniline Oil

KRISHNA SOLVECHEM LTD. Pg 8

## B

Basic Auramine Liquid

HIREN ENTERPRISES Pg 11

Basic Bismark Brown R

HIREN ENTERPRISES Pg 11

Basic Bismark Brown Y

HIREN ENTERPRISES Pg 11

Basic Brown R Liquid

HIREN ENTERPRISES Pg 11

Basic Brown Y Liquid

HIREN ENTERPRISES Pg 11

Basic Crysodine R (Powder)

HIREN ENTERPRISES Pg 11

Basic Crysodine Y Base (Solvent Orange 3)

HIREN ENTERPRISES Pg 11

Basic Crysodine Y (Crystal & Powder)

HIREN ENTERPRISES Pg 11

Basic Crysodine Y Liquid Pg 11

Benzoic Acid

KRISHNA SOLVECHEM LTD. Pg 8

Mavani Chemicals Pvt. Ltd. Pg 13

Beta Naphthol to G. Salt

AAKAR DYES AND CHEMICALS Pg 9

B.H.K. Acid

Mavani Chemicals Pvt. Ltd. Pg 13

BIS AZO

Mavani Chemicals Pvt. Ltd. Pg 13

Bitumen / Pet Coke / DMPAT

KRISHNA SOLVECHEM LTD. Pg 8

Blue TL

Mavani Chemicals Pvt. Ltd. Pg 13

BM Alizarine Red

Mavani Chemicals Pvt. Ltd. Pg 13

Bordo 3B

Mavani Chemicals Pvt. Ltd. Pg 13

Brassinolids

Chemilife Enterprises Pg 12

Butanol

KRISHNA SOLVECHEM LTD. Pg 8

## C

C-IX

KRISHNA SOLVECHEM LTD. Pg 8

Cyclohexane

KRISHNA SOLVECHEM LTD. Pg 8

## D

DEG

KRISHNA SOLVECHEM LTD. Pg 8

Dehydro Thio Based

Mavani Chemicals Pvt. Ltd. Pg 13

Di Ethyl Amine

KRISHNA SOLVECHEM LTD. Pg 8

Di Ethylene Tri Amine (DETA)

KRISHNA SOLVECHEM LTD. Pg 8

Di Iso Propyl Ether

KRISHNA SOLVECHEM LTD. Pg 8

Di Methyl Acetamide

KRISHNA SOLVECHEM LTD. Pg 8

Di Methyl Amine

KRISHNA SOLVECHEM LTD. Pg 8

Di Methyl Amine HCl

KRISHNA SOLVECHEM LTD. Pg 8

Dimethyl Carbonate

KRISHNA SOLVECHEM LTD. Pg 8

Di Methyl Formamide

KRISHNA SOLVECHEM LTD. Pg 8

Di Methyl Sulphoxide

KRISHNA SOLVECHEM LTD. Pg 8

DIPA

KRISHNA SOLVECHEM LTD. Pg 8

Direct Orange 118 Liquid

HIREN ENTERPRISES Pg 11

Direct Red 81 Liquid

HIREN ENTERPRISES Pg 11

Direct Violet Base

Mavani Chemicals Pvt. Ltd. Pg 13

Direct Yellow - 09

Mavani Chemicals Pvt. Ltd. Pg 13

Direct Yellow 11 Liquid

HIREN ENTERPRISES Pg 11

Direct Yellow 87 Base

Mavani Chemicals Pvt. Ltd. Pg 13

Di Sodium Phosphate

KRISHNA SOLVECHEM LTD. Pg 8

## E

Edible Refine Salt

SKC INDUSTRIES LLP Pg 14





Epichlorohydrine

KRISHNA SOLVECHEM LTD. Pg 8

Ethylene Diamine (EDA)

KRISHNA SOLVECHEM LTD. Pg 8

Ethylene Dichloride

KRISHNA SOLVECHEM LTD. Pg 8

## F

Formic Acid

KRISHNA SOLVECHEM LTD. Pg 8

## G

Gibberlic Acid

Chemilife Enterprises Pg 12

Green - BL

Mavani Chemicals Pvt. Ltd. Pg 13

G Salt to Amido G Acid

AAKAR DYES AND CHEMICALS Pg 9

## H

H Acid

AAKAR DYES AND CHEMICALS Pg 9

Heptanes

KRISHNA SOLVECHEM LTD. Pg 8

Hexane

KRISHNA SOLVECHEM LTD. Pg 8

Basic Brown Y Liquid Pg 11

HIREN ENTERPRISES Pg 11

Basic Brown Y Liquid Pg 11

Hydrazine Hydrate 80%

KRISHNA SOLVECHEM LTD. Pg 8

Hydrogen Peroxide 50%

KRISHNA SOLVECHEM LTD. Pg 8

Hydroxylamine Sulphate

KRISHNA SOLVECHEM LTD. Pg 8

## I

Indole Acetic Acid

Chemilife Enterprises Pg 12

Indole Butyric Acid

Chemilife Enterprises Pg 12

Industrial Salt

SKC INDUSTRIES LLP Pg 14

Isobutanol

KRISHNA SOLVECHEM LTD. Pg 8

Isophorone

KRISHNA SOLVECHEM LTD. Pg 8

Isopropanol

KRISHNA SOLVECHEM LTD. Pg 8

Isopropyl Alcohol

KRISHNA SOLVECHEM LTD. Pg 8

## J

J Acid

AAKAR DYES AND CHEMICALS Pg 9

## M

Mamas Acid

Mavani Chemicals Pvt. Ltd. Pg 13

MCB

KRISHNA SOLVECHEM LTD. Pg 8

MDC

KRISHNA SOLVECHEM LTD. Pg 8

Methanol

KRISHNA SOLVECHEM LTD. Pg 8

Methylene Di Chloride

KRISHNA SOLVECHEM LTD. Pg 8

Methyl Ethyl Ketone (MEK)

KRISHNA SOLVECHEM LTD. Pg 8

Methyl Iodide

KRISHNA SOLVECHEM LTD. Pg 8

Methyl Iso Butyl Ketone (MIBK)

KRISHNA SOLVECHEM LTD. Pg 8

Methyl Metha Acrylate

KRISHNA SOLVECHEM LTD. Pg 8

Mono Chlorobenzene

KRISHNA SOLVECHEM LTD. Pg 8

Mono Ethyl Amine 70%

KRISHNA SOLVECHEM LTD. Pg 8

Mono Isopropyl Amine 70%

KRISHNA SOLVECHEM LTD. Pg 8

Mono Methyl Amine

KRISHNA SOLVECHEM LTD. Pg 8

Mono Sodium Phosphate

KRISHNA SOLVECHEM LTD. Pg 8

Morpholine

KRISHNA SOLVECHEM LTD. Pg 8

## N

Naphthalene 2:7 Disulfonic Acid

AAKAR DYES AND CHEMICALS Pg 9

N-Butanol

KRISHNA SOLVECHEM LTD. Pg 8

Nitazine Yellow

Mavani Chemicals Pvt. Ltd. Pg 13

N-Methyl-2-Pyrrolidone

KRISHNA SOLVECHEM LTD. Pg 8

## O

Orange ARL

Mavani Chemicals Pvt. Ltd. Pg 13

Orange Base

Mavani Chemicals Pvt. Ltd. Pg 13

Ortho Nitro Toluene

KRISHNA SOLVECHEM LTD. Pg 8

Ortho Xylene

KRISHNA SOLVECHEM LTD. Pg 8

## P

Papas Acid

Mavani Chemicals Pvt. Ltd. Pg 13

Paraformaldehyde

KRISHNA SOLVECHEM LTD. Pg 8

Para Nitro Toluene

KRISHNA SOLVECHEM LTD. Pg 8

PCI5

KRISHNA SOLVECHEM LTD. Pg 8

Peracetic Acid

Chemilife Enterprises Pg 12

PH

Mavani Chemicals Pvt. Ltd. Pg 13

Phenol

KRISHNA SOLVECHEM LTD. Pg 8

Phosgenated and Cyanuric Based

Mavani Chemicals Pvt. Ltd. Pg 13

Phosphate

KRISHNA SOLVECHEM LTD. Pg 8

Phosphoric Acid 85%

KRISHNA SOLVECHEM LTD. Pg 8

Piperazine 68%

KRISHNA SOLVECHEM LTD. Pg 8

Piperazine Anhydrous

KRISHNA SOLVECHEM LTD. Pg 8

Polyamines

KRISHNA SOLVECHEM LTD. Pg 8

Potassium Meta Bi Sulphite

KRISHNA SOLVECHEM LTD. Pg 8

Propylene Glycol

KRISHNA SOLVECHEM LTD. Pg 8

Pyridine

KRISHNA SOLVECHEM LTD. Pg 8

## Q

Quinizarine (1-4 Dihydroxy Anthraquinone

Mavani Chemicals Pvt. Ltd. Pg 13

## R

Raw Salt/Crystal/Coarse Salt

SKC INDUSTRIES LLP Pg 14

Red - 4G

Mavani Chemicals Pvt. Ltd. Pg 13

Red - HI

Mavani Chemicals Pvt. Ltd. Pg 13

## S

Salt Free Dyes

Mavani Chemicals Pvt. Ltd. Pg 13

Silver Peroxide

Chemilife Enterprises Pg 12

Sodium Acid Pyro Phosphate

KRISHNA SOLVECHEM LTD. Pg 8

Sodium Benzoate

KRISHNA SOLVECHEM LTD. Pg 8

Sodium Chloride NACL 99%

SKC INDUSTRIES LLP Pg 14

Sodium Hexa Meta

KRISHNA SOLVECHEM LTD. Pg 8



Sodium Meta Bi Sulphate

KRISHNA SOLVECHEM LTD. Pg 8

Sodium Metal

KRISHNA SOLVECHEM LTD. Pg 8

Sodium Methoxide

KRISHNA SOLVECHEM LTD. Pg 8

Sodium Nitrate

KRISHNA SOLVECHEM LTD. Pg 8

Sodium Nitrite

KRISHNA SOLVECHEM LTD. Pg 8

Sodium Percarbonate

Chemilife Enterprises Pg 12

Sodium Sulphate

SKC INDUSTRIES LLP Pg 14

Sodium Sulphide Yellow Flakes

KRISHNA SOLVECHEM LTD. Pg 8

Sodium Sulphite

KRISHNA SOLVECHEM LTD. Pg 8

Sodium Tri Poly

KRISHNA SOLVECHEM LTD. Pg 8

Stain Indicator

Mavani Chemicals Pvt. Ltd. Pg 13

S. Titan Yellow

Mavani Chemicals Pvt. Ltd. Pg 13

Styrene Monomer

KRISHNA SOLVECHEM LTD. Pg 8

Sulphuryl Chloride

KRISHNA SOLVECHEM LTD. Pg 8

Sulphur Dioxide

KRISHNA SOLVECHEM LTD. Pg 8

## T

Tablet Salt

SKC INDUSTRIES LLP Pg 14

Tertiary Butanol

KRISHNA SOLVECHEM LTD. Pg 8

Tetra Hydro Furan

KRISHNA SOLVECHEM LTD. Pg 8

T G Urea

KRISHNA SOLVECHEM LTD. Pg 8

Thionyl Chloride

KRISHNA SOLVECHEM LTD. Pg 8

Tobias Acid

AAKAR DYES AND CHEMICALS Pg 9

Toluene

KRISHNA SOLVECHEM LTD. Pg 8

Tri Ethyl Amine

KRISHNA SOLVECHEM LTD. Pg 8

Tri Ethyl Ortho Formate

KRISHNA SOLVECHEM LTD. Pg 8

Tri Methyl Amine

KRISHNA SOLVECHEM LTD. Pg 8

Tri-n-Butyl Amine

KRISHNA SOLVECHEM LTD. Pg 8

TRIS AZO

Mavani Chemicals Pvt. Ltd. Pg 13

Tri Sodium Phosphate

KRISHNA SOLVECHEM LTD. Pg 8

Tropium Chloride

KRISHNA SOLVECHEM LTD. Pg 8

## V

Vinyl Acetate Monomer

KRISHNA SOLVECHEM LTD. Pg 8

Violet 4B

Mavani Chemicals Pvt. Ltd. Pg 13

## Y

Yellow ARL

Mavani Chemicals Pvt. Ltd. Pg 13

Yellow GL

Mavani Chemicals Pvt. Ltd. Pg 13

Yellow RL Base

Mavani Chemicals Pvt. Ltd. Pg 13

## Oxynov™ Barrier Bottles New Branding Introduction in Airnov

- High barrier protection against oxygen and moisture for use in automated fill lines
- Ideal for use with oxygen and moisture absorbers
- Standard bottle neck SP-400

December 17, 2020 – Airnov Healthcare Packaging is introducing its new brand, OXYNOV™. Applicable for High Protective Barrier Bottles, OXYNOV offers protection for pharmaceutical, nutraceutical and probiotic products. The OXYNOV Barrier Bottles utilize extrusion-blow-molding (EBM) technology creating a 6-layer bottle with ethylene vinyl alcohol (EVOH) which offers the highest barrier to oxygen and moisture available on the market for this packaging category. The OXYNOV bot-

tles are rigid containers to be used on automated filling lines for a fast, reliable output, and do not shrink when bottles are used in conjunction with oxygen absorbers.

The OXYNOV bottle is the latest brand in Airnov's oxygen protective solutions which, when combined with oxygen absorbers, offers the ideal product to avoid the degradation of oxygen sensitive products such as drugs, proteins or probiotics. Airnov produces OXYNOV bottles in a range of sizes from 40cc to 400cc.

"After introducing our new company name in February this year we are continuing to update and evolve some Airnov category products to grow our core business of healthcare packaging

solutions. It's been a wonderful journey along this process to create OXYNOV," says Stephane Rault, global product line manager. "Customers will now recognize our oxygen protective solutions through our new Oxynov brand, dedicated to oxygen protective solutions." OXYNOV not only protects against oxygen, it guarantees protection from moisture and UV. The OXYNOV bottles are delivered to customers in tight aluminum bags resulting in a 2-year shelf-life, are compliant with SP-400 regulation and may be used with standard screw cap and child resistant closures as well as US FDA, EU regulations and USP 38/NF 33 supplement 1<671>. Regulatory statements are available upon request and are registered in a Drug Master File.

Source : Chemical Market



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More Information [pubs.acs.org](https://pubs.acs.org)

Source : Chemical Market

## Agilent Presents Thought Leader Award To IIT Delhi Scientist Professor Anurag Rathore

Agilent Technologies Inc. (NYSE: A) has honored Prof. Anurag Rathore, a scientist at the Indian Institute of Technology (IIT) Delhi, with an Agilent Thought Leader Award, for his contributions to the field of biopharmaceutical research and his work with advanced methods for molecular characterization of biosimilars.

The 2020 award includes a grant to support research personnel and Agilent instrumentation including a 6545XT Advance Bio LC/Q-TOF, a Bravo Automated Liquid Handling Platform, and a 1290 Infinity II 2D-LC System. Prof. Rathore—who serves as professor at IIT Delhi's Chemical Engineering department—is the first researcher in India to receive this award. Award funding will be used to promote academic-based research on critical areas impacting the biopharmaceutical industry.

“I feel humbled to be chosen for an Agilent Thought Leader Award,” said Prof. Rathore. “As one of the many researchers at IIT Delhi working in the new

COVID-19 normal, this is an encouraging and welcome event. The award will propel me to work harder as we strive to bring the technologies and products we have been working on to market.”

The work at Prof. Rathore's lab will focus on the best practices towards molecular characterization of monoclonal antibody-based biosimilars. Monoclonal antibodies (mAbs) include an important and growing group of biopharmaceutical drugs used to treat several diseases and conditions. Their activity, stability, and other physicochemical and toxicological characteristics are heavily influenced by the level and position of their amino acid modifications. As such, Agilent is invested in developing workflows to streamline the analysis of critical charge and glycosylation heterogeneity of these molecules.

“Prof. Rathore is a leading scientist among an extremely motivated and talented research group at IIT Delhi. We are privileged to have him as the first recipient of an Ag-

ilent Thought Leader Award in India,” said Bharat Bhardwaj, country general manager for Agilent India. “This award will bring financial support, cutting-edge products, consumables, services, and, most importantly, Agilent expertise to his research.”

Bhardwaj continued, “Over the next three years, this relationship will further help Prof. Rathore's development of biosimilar drugs, and improving human health.”

The Agilent Thought Leader Award program promotes fundamental scientific advances by contributing financial support, products, and expertise to the research of influential thought leaders in the life sciences, diagnostics, and chemical analysis space. Further information is available on the Agilent Thought Leader Award web page.

More Information [www.agilent.com](https://www.agilent.com)

Source : Chemical Market

## DSM Launches New Discovery® Sustainable Resin to Help Packaging Market Lower its Carbon Footprint

Waalwijk (NL), 2 December 2020 - DSM, a global science-based

company active in health, nutrition and materials, is launching sustain-

able, plant-based Discovery® resins for the packaging industry. Starting with



## EVENTS AND CONFERENCES

### CPHI JAPAN

**Date:** April 14-16, 2021

**City:** Big Sight Exhibition Centre, Tokyo, Japan

**Country:** Tokyo, Japan

**Website:** <https://www.cphi.com/japan/en/about/news-and-updates/cphi-japan-postponed-april-2021.html>

**Description:** Representing pharmaceutical ingredients, CPhI Japan is the largest area of the exhibition and provides a platform for the Japanese and overseas buyers and manufacturers to network, learn and to meet with key players. CPhI Japan is divided into various product zones including APIs, pharmaceuticals, custom manufacturing, excipients, and fine chemicals.

### CPHI JAPAN

**Date:** April 14-16 2021

**City:** Tokyo

**Country:** Japan

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

**Description:** Hosting events in Europe, China, Korea, India, Japan, South East Asia, Middle East and North America, CPhI co-locates with ICSE for contract services, P-MEC for machinery, equipment and technology, InnoPack for pharmaceutical packaging, Bioproduction for biopharma and FDF for every aspect of the finished dosage supply chain. We know sustainability is increasingly important to our attendees and exhibitors, as well as to our market as a whole. Running CPhI South East Asia gives us lots of opportunities to improve our impacts socially, environmentally and economically in our host city.

### CHEMSPEC EUROPE

**Date:** May 19-20, 2021

**City:** Messe Frankfurt, Germany.

**Country:** Germany

**Website:** <https://www.chemspeceurope.com/2021/english/event/about-chemspec-europe/>

**Description:** COVID-19, sustainability, new trends, and digitalisation are not just buzzwords. In fact, these aspects and the on-going demand for innovations determine the industry. The choice of the right suppliers and the exchange of knowledge within international industry networks is more important than ever. With a highly specialised exhibition profile, Chemspec Europe 2021 is a key event for buyers, traders and agents in search of bespoke solutions and innovative substances.

### CHEMUK 2021 EXPO

**Date:** May 12-13, 2021

**City:** NEC, Birmingham, UK

**Country:** UK

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

**Description:** CHEMUK is the UK's only trade show dedicated to bringing together the multi-layer Chemicals/Chemical Product development, specification & processing/manufacturing communities, with crucial supply chain supplier groups.





## EVENTS AND CONFERENCES

With some 2,500+ specialist businesses contributing to the UK's chemical industry – embracing raw materials, chemicals, intermediates & consumables, equipment & apparatus, high tech innovation streams, sub-contracting & business services and much more, CHEMUK is the event where the UK's chemical industries meet.

### INTERDYE & TEXTILE PRINTING EURASIA

**Date:** March 11-13, 2021

**City:** Istanbul Expo Center (Istanbul Fuar Merkezi), Bakırköy, Turkey

**Country:** Istanbul

**Website:** <https://10times.com/interdye-and-printing-eurasia>

**Description:** International Dyestuff, Pigments, Textile Chemicals, Digital Textile Printing, Dyeing and Printing Technologies Exhibition: Interdye & Textile Printing Eurasia which will be organized in cooperation with Turkish Textile Dyeing and Finishing Industrialists Association (TTTSD) and Artkim FuarcÄ±lÄ±k will bring together the leading companies of Textile Finishing and Textile Printing Industries together.

### CPHI INDIA

**Date:** January 27-29, 2021

**City:** Noida

**Country:** India

**Website:** <https://www.cphi.com/en/events/upcoming-events.html>

**Description:** Each year CPhI unites more than 100,000 pharmaceutical professionals through exhibitions, conferences and online communities to network, identify business opportunities and expand the global market. Hosting events in Europe, China, Korea, India, Japan, South East Asia, Middle East and North America, CPhI co-locates with ICSE for contract services, P-MEC for machinery, equipment and technology, InnoPack for pharmaceutical packaging, Bioproduction for biopharma and FDF for every aspect of the finished dosage supply chain.

### PAINT INDIA 2021

**Date:** March 11-13, 2021

**City:** Bombay Exhibition Centre, Mumbai

**Country:** India

**Website:** <https://10times.com/paintindia-international-exhibition>

**Description:** The PAINTINDIA series of exhibitions, since their inception in 1993, have been the pioneering and premier coatings exposition for the coatings industry in the Indian sub-continent. PaintIndia has built a place for itself as the pioneer and the only journal in the coating industry not only in India, but in the entire Far East. It has all along championed the cause of the coating industry to the extent that the Indian Industry looks upto the journal for objective presentation of news, independent expression of views and dissemination of information in continuing research in coatings and raw materials, and its allied fields.

*Event information may be out of date due to the coronavirus (COVID-19). Confirm details with event organisers. This page was last updated on June 9th 2020*



the Decovery® SP-6400XP, with others to follow, this announcement paves the way for packaging producers to reduce their carbon footprint.

The print and packaging industry is constantly seeking materials which offer a lower level of VOCs and carbon emissions as these will help brand owners to fulfil their sustainability pledges. In recent years, DSM has realized that its Decovery® plant-based technologies could offer much-needed improvements to sustainability to the packaging market.

With the launch of the SP-6400XP – part of DSM's Decovery® range of resins for the creation of adhesives, primers, inks and topcoats – DSM is helping brand owners to take a significant step towards meeting their environmental and sustainability pledges while also moving towards fully bio-based solutions.

“With our Decovery® resins we have enabled the transition to plant-based materials in the decorative, flooring, joinery and furniture markets,” explains Tim Gratzke, Marketing Manager Decovery® at DSM Resins & Functional Materials. “This was only the beginning, the natural next step was leveraging our capabilities and experience to build sustainable solutions for packaging applications.”

New Decovery® SP-6400XP is a low-No-AH alkali-soluble acrylic copolymer dispersion with high clarity and flexibility. It is particularly suited to adhesive application, such as removeable paper labels for bottles and domestic adhesives.

It has a significantly lower carbon footprint than conventional, oil-based alternatives, while also being highly flexible, meaning it can be deployed to adhere to a wide range of substrates. It is clear to view, non-tacky to touch and will adhere to a variety of substrates including glass and PET. At the end of its use, low temperature wash-off properties make SP-6400XP less energy-consuming in the recycling process.

Jacqueline Revet, Global Marketing Manager of DSM Resins & Functional Materials commented: “People tend to appreciate the carbon-saving benefits of switching to, say, plant-based paints. But a lot of people are not aware of the difference that plant-based adhesives can make. When we reach the day when all adhesives are plant-based, we'll save the planet 15 kilotons of carbon each year...that's the equivalent of planting almost 250,000 trees for 10 years.” Revet also added: “Adhesives are just the start. Imagine the environmental difference brand owners and man-

ufacturers could make if primers, inks and topcoats on their packaging could be plant-based too.”

Like DSM's other Decovery® plant-based resins, SP-6400XP is made from ingredients such as tree bark and castor beans that are sustainably sourced. All of these ingredients have been carefully selected by DSM to ensure they do not compete with the food chain in any way. Furthermore, these natural ingredients can be obtained and used far more sustainably than fossil-fuel-based materials.

As a result of their plant-based construction, Decovery® resins contain zero-to-low VOCs, underlining DSM's commitment to creating products which are kind to our planet and the people who inhabit it. However, DSM understands that while the packaging industry is eager for more sustainable products, consistently-high performance is essential. So SP-6400XP delivers a performance equal to DSM's non-bio based NeoCryl® BT-9.

With the launch of SP-6400XP, DSM is offering brand owners, formulators and converters a welcome opportunity to remove another layer of oil-based materials from the packaging production process.

Source : Chemical Market

## Hohenstein Tests According to European Guidelines for Community Masks

**B**ÖNNIGHEIM (ivs) Testing service provider and research partner, Hohenstein now tests according to the first European guideline for community masks, the CEN Workshop Agreement (CWA) 17553:2020. Hohenstein had already taken a big step towards safety and functionality with the introduction of its quality label for Tested Community Masks. The new "Community Face Coverings-Guide to minimum requirements, methods of testing and use" sets

minimum requirements for design, performance evaluation, labelling and packaging of both reusable and disposable masks.

Community masks are important in containing the spread of the coronavirus, SARS-CoV-2. But: to fulfill their function, they must meet certain requirements. The objective of the standard is to support manufacturers of masks who have switched production to

non-medical, everyday masks. This will provide them with assistance regarding the requirements for such masks, which must also meet the legal requirements for textiles and satisfy certain functional demands.

Uniform product quality and durability standards across Europe are particularly important for containing the spread across borders. Clear product information helps consumers rely on the safety



of community masks. The guideline can therefore also serve as a marketing aid for suppliers in international competition.

Standardized test procedures at Hohenstein provide information as to whether everyday masks have

sufficient breathability and filter performance. Other quality parameters include washability, fit and safety from harmful substances. Hohenstein also checks compliance with legal requirements and proper labelling and use instructions.

Manufacturers of everyday masks can also earn the Hohenstein Quality Label for Tested Community Masks by proving product performance and certifying to STANDARD 100 by OEKO-TEX®.

Source : Chemical Market

## Clariant Appoints Conrad Keijzer as Chief Executive Officer

- Conrad Keijzer to become CEO as of January 1, 2021
- Hariolf Kottmann to focus on his role as Chairman of the Board of Directors

Muttenz, December 9, 2020 – Clariant, a focused, sustainable and innovative specialty chemical company, today announced that Conrad Keijzer will become Clariant's new Chief Executive Officer. The Board of Directors has appointed him in its meeting yesterday evening. Conrad Keijzer will officially join the company as of January 1, 2021. Executive Chairman ad interim Hariolf Kottmann will then return to his position as Chairman of the Board.

Conrad Keijzer (52) is a Dutch citizen with a long and successful track record in the chemical industry, most notably his 24 years with the leading global

paints and coatings manufacturer AkzoNobel. At AkzoNobel, he last held the position as CEO of the Performance Coatings Division and was a member of the Executive Committee. Most recently, Conrad Keijzer was CEO at Imerys, the French supplier of mineral-based specialty solutions.

"I am very happy to announce that, after an in-depth search process, Clariant's Board of Directors has appointed Conrad Keijzer as the company's new Chief Executive Officer. This decision is fully supported by the Board representatives of our two major shareholders SABIC and the Süd-Chemie legacy shareholders. Our Group will benefit greatly from both his international experience and his track record in the specialty chemicals industry. With his impressive accomplish-

ments in managing large industrial and chemical businesses, his experience in working in different regions, his proven focus on customer needs and his passion for sustainability, Conrad Keijzer is an excellent choice to guide Clariant into a successful future," said Hariolf Kottmann, Executive Chairman ad interim of Clariant.

"I consider it a privilege to become the CEO of Clariant, an iconic company whose values are closely aligned to mine. Together with the experienced members of the Executive Committee, I look forward to untapping the full potential of this great company and to leading Clariant in the next phase of its important transformation into a high-value specialty chemicals company," said Conrad Keijzer, CEO-designate of Clariant.

Source : Chemical Market

## Colorful Magnetic Janus Balls Could Help Foil Counterfeiters Video

Counterfeiters who sell knockoffs of popular shoes, handbags and other items are becoming increasingly sophisticated, forcing manufacturers to find new technologies to stay one step ahead. Now, researchers reporting in ACS Nano have developed tiny "Janus balls" that show their colored side under a magnetic field. These microparticles

could be useful in inks for anti-counterfeiting tags, which could be verified with an ordinary magnet, the researchers say. Watch a video of the Janus balls here.

In ancient Roman mythology, Janus was the two-faced god of transitions. Similarly, so-called Janus balls are microspheres that have two sides with dis-

tinct properties. Shin-Hyun Kim and colleagues wanted to make Janus balls out of two unmixable resins: one that contained magnetic nanoparticles, and another that contained silica particles. The magnetic side of the ball would also contain carbon black, causing that hemisphere to appear dark, whereas the silica particles on the other side of the



ball would self-assemble into a crystal-line lattice, producing structural colors. The result would be tiny balls that normally have their black sides facing up, except when a magnetic field causes them to flip to their colorful sides.

To make Janus balls, the researchers used a microfluidic device to unite drops of the two resins, with a surfactant added to stabilize the joined drops into a spherical shape. Because the silica-containing colored side of the



drops was heavier than the black magnetic side, the force of gravity caused the black side to spontaneously face upward, like a roly-poly toy, when the balls were placed in water. Then, the researchers permanently aligned the magnetic nanoparticles in the balls in the same direc-

tion. By applying a magnetic field in the opposite direction, they could

flip the balls to their colored sides. The researchers made red and green Janus balls by using different sizes of silica particles, with their magnetic nanoparticles aligned in opposite directions. By changing the direction of the applied magnetic field, they could change the colors of 3D-printed chameleon and butterfly shapes. Using different colors and orientations of Janus balls in inks could produce sophisticated, user-interactive anti-counterfeiting tags, the researchers say.

Source : Chemical Market

## CareStart™ COVID-19 Antigen Test Kit Using NanoAct™ Launched in the U.S.

CareStart™ COVID-19 Antigen test kit developed by Access Bio, Inc., using Asahi Kasei's NanoAct™ cellulose nanobeads, received Emergency Use Authorization (EUA) from the U.S. Food and Drug Administration (FDA), and its sale in the U.S. has begun.

NanoAct™ colored cellulose nanobeads were developed by Asahi Kasei by utilizing its core technology of cellulose processing. They are currently used as labels for lateral flow immunochromatographic assays, mainly for influenza. NanoAct™ was adopted by Access Bio, Inc. for use in CareStart™ COVID-19 Ag as it is available in a wide range of colors and enables better visibility of test lines, which improves usability.

The continuing spread of COVID-19 has raised the importance of rapid screening. Demand for rapid test kits is rising because unlike polymerase chain reaction (PCR) tests, they require no special equipment. Access Bio, Inc., the world's leading manufacturer of rapid test kits for malaria, developed CareStart™

COVID-19 Ag to rapidly detect antigens of SARS-CoV-2, the virus which causes COVID-19. Clinical evaluations indicate that CareStart™ COVID-19 Ag provides a sensitivity of 88.4% and specificity of 100%, which is comparable to reverse transcription (RT)-PCR testing. Furthermore, CareStart™ COVID-19 Ag provides results in 10 minutes while PCR generally takes 1 or 2 days. In addition, the availability of NanoAct™ in multi-color variation enables dif-



ferent colors to be shown, such as blue for the test line (T in the figure below) and red for the control line (C), which allows easier judgment as a user-friendly test kit.

CareStart™ COVID-19 Ag has also obtained CE Mark certification, and it is scheduled to be launched in Europe, Southeast Asia, and Africa.

**In addition to various diagnostic test kits for COVID-19 and influenza, NanoAct™ is also expected to be used in multi-testing kits that enable simultaneous testing for several infectious diseases. Such kits are increasingly being developed by many diagnostic kit manufacturers in the U.S., Europe, and Asia. Asahi Kasei will continue to leverage NanoAct™ technology to help prevent the spread of COVID-19 and other infectious diseases.**

Source : AsahiKasei





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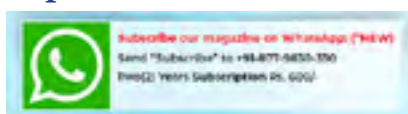


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