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NOTE: This is an interactive PDF version. (send to customers on WhatsApp. Most of the Hyperlinks are clickable)



## Drum Openers for working with flammable liquids

QTi® Non-Sparking Bung Wrenches and Drum Openers are high-quality, high-strength tools made from Copper Titanium alloy. They are used for opening and closing caps and seals of Drums/Barrels containing flammable liquids. There is no need to have different tools for different plug sizes.



Drum Openers & Cutters

## QTi® NON-SPARKING HAND TOOLS FOR CHEMICAL HANDLING



### QTi® Drum Opener

Drum Opener is used to Open/Close plugs on metal barrels (drums) of 210 Liters/55 Gallons. This tool has several faces and is designed for use on plugs of size 2 inches (50 mm) and ¾ inches (19 mm) plugs—all with the same tool.



### Ergonomically Designed

These tools are ergonomically designed for continuous and safe operation



### QTi® Drum Cutter

Copper Titanium Non-Sparking Drum Cutters is used to cut the 205 liters/55 gallons drum containing flammable liquids & used to cut-open plastic seals and tags of barrels containing flammable chemicals.



### IS Certified

Tested and certified for Non-Sparking characteristics as per BIS Standards IS:4595 -1969



### QTi® Bung Wrench

Copper Titanium Non-sparking multipurpose, drum bung wrench, not only is used to open and close drum bungs or plugs but can also be used as a ring wrench and a faucet wrench. It is ideal for heavy-duty jobs.



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~~—Sep 9–11, 2020—~~ Philadelphia, PA, USA  
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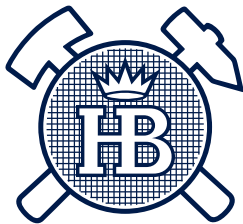
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- Gibberlic Acid & 6BA** ☐

### Product Category:

- Laboratory Chemicals - Organic & Inorganic salts - solvents, LR, AR, HPLC, GC Grades
- Laboratory Glasswares
- Laboratory Plastic Wares
- Laboratory Equipments & Analytical Instruments
- Industrial safety products - Gloves, Wipers, Ear Plugs,

### Speciality Chemicals:

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Sodium Nitrite	Tri Methyl Amine

## Aditya Birla Thailand

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Hydrogen Peroxide 50%	Phosphate
(240kg Carboys)	Sodium Meta Bi Sulphate
Mono Sodium Phosphate	Sodium Sulphite
Phosphoric Acid 85%	Sodium Tri Poly
Potassium Meta Bi Sulphite	Phosphate
Sodium Acid Pyro Phosphate	Tri Sodium Phosphate

## Du-Pont Ltd.

Di Methyl Acetamide, Di Methyl Formamide, Sodium Metal

## Reliance Industries Ltd.

Cyclohexane

## Lucky Chemicals Industries

PCl<sub>5</sub>

## Jubilant Life Science Ltd.

Acetic Acid

## Diamines and Chemicals Ltd.

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DIPA	Piperazine 68%
Ethylene Diamine (EDA)	Piperazine Anhydrous
	and Other products

## Alkyl Amines Chemicals Ltd.

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Di Methyl Amine HCl	Di Methyl Amine
Mono Ethyl Amine 70%	Morpholine
Mono Isopropyl Amine 70%	Tri Methyl Amine
Mono Methyl Amine	Tri Ethyl Amine

## Deepak Nitrite Ltd.

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## Shree Sulphurics Pvt. Ltd.

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## SI Group

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## Imports (Ready & High Seas Sales)

**KANDLA PORT :** Acetic Acid, Acetone, Acrylonitrile, Butanol, C-IX, Cyclohexanone, Ethylene Di-chloride, Hexane, Isobutanol, Isopropyl Alcohol, MDC, Methanol, Methyl Ethyl Ketone (MEK), Methyl Iso Butyl 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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Contact

**Bharat Mehta**

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## How to Awkwardly Interact with people at a Bar Using Chemistry Video

WASHINGTON, June 14, 2021 — With pandemic restrictions lifting in the U.S., we're starting to get back out in the world, meeting up with friends and coworkers at restaurants and bars. If you're worried you forgot how to talk to other humans, this episode is for you: <https://youtu.be/XDbpzCM9qKU>.

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- Basic Bismark Brown R
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Event information may be out of date due to the coronavirus (COVID-19). Confirm details with event organisers. This page was updated on July 10th 2020

### Cphi - Informa Group

No	Exhibitions	Date	Place
1	CPhI North America	Aug 10-12, 2021	Philadelphi
2	CPhI Worldwide Germany	Nov 9-11, 2021	Fiera Milano, Milan, Italy
3	CPhI Middle East & Africa	Sept 26-28, 2021	Abu Dhabi, UAE
4	CPhI China- Virtual CPhI	Dec 16-18, 2021	Shanghai, China
5	CPhI Japan	Apr 14-16, 2021	Tokyo, Japan
6	CPhI Korea	Oct 11-13, 2021	Seoul, India
7	CPhI India	Nov 24-26, 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	Sept 27-29, 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 24-27, 2021	Morocco
2	Dye+Chem Sri Lanka International Expo	Sept 23-25, 2021	Colombo Sri Lanka
3	Dye+Chem Bangladesh International Expo	Sept 01-04, 2021	Bangladesh
4	Dye+Chem Brazil International Expo	Nov 09-11 2021	Brazil

### Red Carpet Events

1	5th Bangladesh Int'l Dyes, Pigments and Chemicals Expo	Apr 02-04, 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 Eurasia	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	Sept 29-30, 2021	Messe Frankfurt, Germany
5	ChemUK 2021 Expo	Sept 15-16, 2021	NBC, Birmingham, UK
6	American Coatings Show	Apr 05-07, 2022	Indianapolis
7	China Coat China	Nov 16-18, 2021	Shanghai, China Shanghai
8	Interdye China	Sept 27-29, 2021	China
9	Paint Expo Germany	Apr 26-29, 2022	Germany

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Product Name	Qty	Grade
861229-15-4	1000 Tonnes	Industrial
Details : This is an additive for waterproofing membrane and purity more than 90% <b>Mr. David Ding</b> Singapore Email : <a href="mailto:dingzhusong1972@yahoo.com">dingzhusong1972@yahoo.com</a> Tel.: 006591058487		

Product Name	Qty	Grade
Succinic Acid 99%-food grade	80 Tonnes	Chemical
Acetic Acid	1 TankerLoad	
Benzene	1 TankerLoad	
Con Nitric Acid	1 TankerLoad	
Methanol	1 TankerLoad	
Soda Ash	4000 Kgs	
Acetone	1 TankerLoad	
Xylene	1 Tonnes	
Toluene	1 Tonnes	
Chlorine	1800 Kgs	
Sulphuryl Chloride	15000 Tonnes	
Imported Steam Coal (Indonesia) Cv 5700	1 Tonnes	
Details : My Client Required Succinic Acid 99%-food grade Please provide me Quotation along with Coa & MSDS Qty: 80MT Delivery Location: Mumbai,INDIA Payment under LUT Make : Imported/Domestic Please do the needful Required rates of above mentioned raw materials. Please reply via email/phone <b>Mr. Abhay Hingarh</b> Mumbai, Maharashtra, India Email : <a href="mailto:jovikaenterprise@gmail.com">jovikaenterprise@gmail.com</a> Tel.: 09821011976		

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

Product Name	Qty	Grade
861229-15-4	200 Tonnes	None
Details : For construction material <b>Mr. David</b> China Email : <a href="mailto:dzs1972@hotmail.com">dzs1972@hotmail.com</a> Tel.: 0086-13584039977		

Product Name	Qty	Grade
Ammonium Sulphate Pure White	500 Kgs	Industrial
Details : Please contact via phone/email. <b>Mr. Manish Dharani</b> Ahmedabad, Gujarat, India Email : <a href="mailto:manish@smdcpl.in">manish@smdcpl.in</a> Tel.: 9879408765		

Product Name	Qty	Grade
1,2-Bis(2-aminophenoxy)ethane - HS Code 29222990	500 Kgs	Not Applicable
Naphthol AS-PH - HS Code - 32041921	500 Kgs	Not Applicable
Fast Red KD Base (HS Code - 29225014)	2 Tonnes	Not Applicable
Naphthol AS-LC (HS Code - 32041929)	500 Kgs	Not Applicable
Dimethylsuccinylsuccinate (DMSS) - HS Code 29181990	500 Kgs	Not Applicable
Details : The purity should be ideal for manufacturing of organic pigments. Looking for Indian manufacturers for pigment intermediates. Required products are on a monthly basis. We are into manufacturing organic pigments. <b>PRAVIN IYER</b> Baroda, Gujarat, India Mobile: 9898507767 Email : <a href="mailto:pravin.iyer@atpigments.com">pravin.iyer@atpigments.com</a>		

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> Amritsar Mobile: 99158-44307 Email : <a href="mailto:vetsafepharma15@gmail.com">vetsafepharma15@gmail.com</a>		

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Product Name	Qty	Grade
Ortho Xylene	20 Tons	Industrial
Toluene	10 Tons	
Glacial Acetic Acid	150 Tons	
Caustic Lye	200 Tons	
Copper Sulphate	10 Tons	
Copper Nitrate	10 Tons	
Titanium Dioxide Ana-tase Grade	3 Tons	
BF3 [Borone Trifluoride]	2 Tons	
Glycerin	5 Tons	-

Details : We Have Our Chemical Factory at Kumbhivali in Raigad District of Maharashtra, India. Required on a Monhly Basis

**Mr. Kamal Dujodwala and Pannkaj Dujodwala**  
Mangalam Organics Limited  
Village Kumbhivali, Savroli Kharpada Road,  
Khalapur - 410202, Raigad, Maharashtra, India  
Web : [www.mangalamorganics.com](http://www.mangalamorganics.com)  
Email : [info@mangalamorganics.com](mailto:info@mangalamorganics.com)  
Tel.: +91-22-49204089

Product Name	Qty	Grade
Direct, Reactive and Optical Whiteners.		Industrial Dyes and Chemical

Details :

**Anil Kumar Gupta**  
M/s Zenith Dyestuffs & Chemical Industries  
Ludhiana Road, Malerkotla - 148023  
Email : [zenithdyes@yahoo.co.in](mailto:zenithdyes@yahoo.co.in)/ [info@idcda.in](mailto:info@idcda.in)  
Tel: 01675-263328  
Mobile: +91-94172-40234/92165-40234

Product Name	Qty	Grade
Sodium Bi-sulphate	Bulk	Chemical
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: [lapchacko@hotmail.com](mailto:lapchacko@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
Glycerine Terpinol	1 Tonnes	Industrial
Details : <b>Sanjay Rokad Shreeji Enterprise</b> Ankleshwar, Gujarat, India Email : <a href="mailto:rokadsanjay@yahoo.com">rokadsanjay@yahoo.com</a> Mobile : +91-701-615-0012		

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

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

Product Name	Qty	Grade
CAS NO 112-12-7 FISCHER'S BASE	2000 Litres	Any
Details :Required on regular basis. Min Qty 2000 Ltr. <b>Mr. Jitendra Bhalgat</b> Ahmednagar, Maharashtra, India Email : <a href="mailto:jbhalgat11@gmail.com">jbhalgat11@gmail.com</a> Tel.: 9422220871		

Product Name	Qty	Grade
Potassium Carbonate Granular	750 Kgs	Industrial
Sodium Nitrate	1500 Kgs	
Caustic Soda Flakes	2000 Kgs	
Details : Require following grade Caustic - GACL Ray- on Grade Potassium Carbonate - Equal to UBID Korea <b>Mr. Utpal Shah</b> Mumbai, Maharashtra, India Email : <a href="mailto:utpal@jayeshgroup.com">utpal@jayeshgroup.com</a> Tel.: 9820144091		

Product Name	Qty	Grade
Toulene	5000 Kgs	Industrial
Details : Kindly arrange to send us quotations <b>Santosh Taksale</b> Pune, MH Mobile: 9028843799 Email: <a href="mailto:santosh.taksale@manikchandpackaging.com">santosh.taksale@manikchandpackaging.com</a>		

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

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

Product Name	Qty	Grade
Pine Oil	-	
Emulsifier Alfox200		
various TOP		
Details : I need total raw materials for mfg. of Detergent powders, Floor cleaning Liquid etc. <b>Arvindbhai Vadhada</b> <b>NewCera Minechem (Manufacturer)</b> Email : <a href="mailto:newceraminechem62@yahoo.com">newceraminechem62@yahoo.com</a> Mobile : +91-9429460123		

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



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

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

**Jitendra Bhalgat**

Ahmednagar, Maharashtra, India

Email : [jbhalgat11@gmail.com](mailto:jbhalgat11@gmail.com)

Mobile : 9422220871

Product Name	Qty	Grade
Sodium Hypochlorite	500 Kgs	Industrial

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

**Rajshree Varshney**

Mumbai, Mh

Mobile: + 917520945076

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



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

Details : An Aviation/Airline Disinfection product that complies with the widely used industry specifications AMS1452 or AMS1453 (Such as substances containing 62% -71% ethanol alcohol, 0.5% hydrogen peroxide, or 0.1% sodium hypochlorite).

**Kishor at Moglix**

Noida

Mobile: 96503-64721

Email : [Kishor.tarafdar@moglix.com](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)

Dimethylsuccinyllo Succinate (DMSS) - HS Code  
29181990

Napthol AS - HS Code  
29242990

Napthol AS-PH - HS Code -  
32041921

1,2-Bis(2-aminophenoxy)  
ethane - HS Code 29222990

2,4,6 Trichloro Aniline 100 Kgs Chemical

Details :

**Pravin Iyer**

AT Pigments (Manufacturer)

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

Mobile : 9898507767

Product Name	Qty	Grade
Silica Sand	500 Tonnes	Industrial

Details :

**Mr. Haroun Mousa**

Dammam

Mobile: 00966566663350

Email : [haroonmousa69@gmail.com](mailto:haroonmousa69@gmail.com)



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

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

Details

**M/s H. Rameshkumar**

**Goradia House, 3rd Floor, Room No. 309, 100/104, Kazi Sayed Street, Mumbai - 400-003**

**Tel: 022-2344-4365**

**Mobile: +91-93231-36833**

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

Details :

**Ashok Patil**

**DD Patil Chemicals, Amalner Dist Jalgoan**

**Email: [ddchemicalsales@gmail.com](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 :

**Arnish**

Chemox Chemopharma Industries (Manufacturer)

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

Mobile: +91-990-908-3070

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

Details :

**Jagdish Thakral**

Shri Hariram Export Pvt. Ltd. (Manufacturer)

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

Phone : 07122734041

Product Name	Qty	Grade
Polyacrylamide		
Hydrochloric Acid		
Industrial Safety Mask		

Details : Bulk requirement

**Amit Dave**

Amit International (Distributor)

Email : [amitintl@zoho.com](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> Email : <a href="mailto:jkind.dbd@gmail.com">jkind.dbd@gmail.com</a> Mobile : 9412113914		

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

Product Name	Qty	Grade
Personal Care		
Home Care		
Detergent raw materials		
APG		
Decyl glucoside		
Coco Glucoside		
Lauryl Glucoside		
Saurasoft 612 (Lipid Layer Enhancer)		
MES Liquid (Methyl Ester Sulphonate)		
PEG 400		
Defoamer		
Emulsifier		
Wetting Agent		
Buffering agent - pH stabiliser		
Klenz B - Disinfectant Cleaner		
FW 351 - Glucoside based fruit and vegetable wash		
Saurawash 201 (Concentrated Glucoside based antimicrobial Hand Wash)		
Details : <b>Prashant Satpute</b> <b>Sauradip Chemical Industries Pvt. Ltd. (Manufacturer)</b> Email : <a href="mailto:prashant.satpute@sauradip.com">prashant.satpute@sauradip.com</a> Mobile : 09769015004		

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

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> Email : <a href="mailto:makmedicalsltd@gmail.com">makmedicalsltd@gmail.com</a> Mobile : +91-987-140-8777		

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

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

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> Email : <a href="mailto:indamedpharma@yahoo.co.in">indamedpharma@yahoo.co.in</a> Mobile : +91-968-787-7922		



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# CHEMICAL MARKET

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## India records highest ever exports in a quarter

As per last week's Groww digest emailer, India records the highest ever exports in a quarter to \$95 billion in various sectors, which is almost 85% higher than the same period last year. Last year's exports accounted for \$51 billion for the same period. The chemical industry is at the center for the growth whether it is manufacturing, construction, consumer products or electronics. According to several sources, it seems the demand for chemicals is likely to reach back to the pre-covid levels globally.

Tata Chemicals managing director and CEO R. Mukundan said, "We expect the margins will catch up by the fourth quarter of this year." Well, only time will tell whether it is ok to predict if things are going to go well and people are still worried about the third wave if it ever happens. As we hear the news that Tokyo has initiated an emergency alert for the Tokyo Olympics where no spectators are allowed, Indonesia was still fighting to get oxygen cylinders for the covid infected patients. We will see how things turn up but it is always better to be positive with a word of caution.

According to one report from Deloitte, the Covid-19 pandemic has had an unprecedented impact on the economy and has experienced a significant decline in demand in the past eight months. While the industry was already facing cyclical challenges such as over capacity, pricing pressures and trade uncertainty before 2020. As the industry

moving to 2021, the changed economic, social, environmental and political expectations are expected to play an even greater role in shaping the future. To succeed in the shifting industry landscape of the chemical market, companies should consider implementing a series of targeted, strategic initiatives across major functional areas such as R&D and technology. Too much focus on the short term, however, could mean that companies end up neglecting long-term opportunities, including investing in innovation, emerging applications, and adopting new business models that generate sustained growth.

A critical aspect of dealing with this disruption in 2021 will be understanding which customer behaviors are temporary versus those that are permanent, as recovery will likely be uneven across end markets and geographies. Companies can address this uncertainty by revisiting their product portfolio and conducting robust scenario planning that includes the unknowns.

On another note, there has been a rise in the IPOs lately with the latest ones in the chemical industry Clean Science and India Pesticides. India Pesticides was listed at Rs. 350 with the IPO price of Rs. 290-Rs. 296 with an 18.24% gains. Clean Science has been subscribed 8.98 times in the retail market.

On the digital initiative front, we have updated our home page at [chemicalmarket.net](http://chemicalmarket.net) with new widgets that displays the latest signups from companies and products that have been uploaded. The new home page was a result of careful UI discussions and the intuitiveness

and ease of use of the website. The leads platform is slowly but steadily gaining traction and more and more companies are subscribing to it and uploading their products. The email marketing module is an excellent tool to reach out to the customers at one go.

This reminds me of Zomato which is also going public next week started with just a few restaurants from a few cities that were listed on its platform. Today it is present in several countries and after so many years (since 2008) of hard work and turmoil is going public. Their core strength was the way they executed the digital marketing paradigm. Well, we don't know how well the IPO will do but it has gone through several rounds of investments and several other controversies to reach where it is today.

Coming back to Chemical Market, rest assured you won't lose anything by listing your products on the Chemical Market Leads Platform. It's a win-win situation for the purchasers and the sellers. Create your company profile and let people know about your company and your listed products.

- Rajiv Parikh



# Global Polymer Nanomembrane Market (2021 to 2026) - Featuring Toray Industries, NX Filtration and Spur Among Others

**D**UBLIN, June 16, 2021 /PRNews-wire/ -- The "Global Polymer Nanomembrane Market by Type (PAN, PE, PVC, Polyamide, PP, PC, PTFE), End-Use Industry (Water & Wastewater Treatment, Chemical, Electronics, Oil & Gas, Food & Beverages, Pharmaceutical & Biomedical) & Region - Trends and Forecasts Up to 2026" report has been added to ResearchAndMarkets.com's offering.

The global polymer nanomembrane market size is estimated to be USD 637 million in 2021 and is projected to reach USD 1,103 million by 2026, at a CAGR of 11.6% between 2021 and 2026.

Nanomembrane produced from polymers (PAN, PVDF, PES, and others) are called polymer nanomembrane. These membranes have pores size in the range of 1nm to 300 nm. These membranes are mainly utilized as nanofiltration membranes and nanofiber membranes in various industries.

Nanofiltration membrane finds application in membrane separation processes in the water & wastewater treatment industry and in other industrial processes. Nanofiber membranes are utilized in pharmaceutical and other industries for providing high breathability and controlled permeability. The growth of the water & wastewater treatment industry is the major driving factor for the polymer nanomembrane market.

The increase in awareness about the environment and water & wastewater treatment is causing the shift from

chemical to physical treatment of water. The production of semiconductors and faster IC chips increases the necessity of obtaining higher purity chemical solutions to clean wafer. Polymer nanomembrane are used for filtration of these chemical solutions. The growing trend of athleisure clothing is an opportunity for the polymer nanomembrane market in the textile industry.

**Polyacrylonitrile (PAN) is projected to be the largest segment by type in Polymer Nanomembrane market**

Polyacrylonitrile (PAN) is the largest type segment for the polymer nanomembrane market. Polyacrylonitrile membranes are prepared with the support of a hydroxylamine-induced phase inversion process. The obtained polyacrylonitrile membrane displays high flux along with the required separation efficiency for various oil-in-water emulsions. Polyacrylonitrile membrane shows superior antifouling property and recyclability due to its ultralow oil adhesion property. Hence, it is highly utilized for emulsified oil/water separation.

**Water & Wastewater Treatment is the largest segment by end-use industry in Polymer Nanomembrane market during forecast region**

In the water & wastewater treatment industry, polymer nanomembranes are utilized as filtration membranes for reducing heavy metals, salt, nitrate, sulfate, and natural organic matter (NOM) content in water. It is also utilized for softening hard water and disinfecting

and purification of potable water. The growth in water & wastewater treatment is attributed to growing health awareness about the consumption of clean drinking water. In addition to this, increasing water scarcity and growing government investment in the water treatment industry, along with growing urbanization, have boosted the demand for point-of-use water filtration systems. This is fueling the demand for polymer nanomembrane.

**North America accounts for the largest share in Polymer Nanomembrane market by region**

North America was the largest polymer nanomembrane market in 2020. Growing urbanization, aging water treatment utilities, faster adoption of newer technologies, and declining freshwater resources are factors promoting nanomembrane market in the region. The stringent environmental regulations in this region, which directly affect the water treatment industry, are the Clean Water Act (CWA), the United States Environmental Protection Agency (EPA), and the Safe Drinking Water Act (SDWA).

In the US, the CWA has established the basic structure for regulating the discharge of pollutants in water channels and quality standards for surface water. Under the CWA, the EPA has implemented pollution control norms for various industries that include setting wastewater standards and water quality standards for all contaminants in surface water. The demand for polymer



nanomembrane in the US is expected to be driven by the modernization of existing water supply and wastewater treatment plants, along with investments for

new facilities.

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

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

## Worldwide Needle Coke Industry to 2029 - by Grade, Type, End-user and Geography

**D**UBLIN, June 16, 2021 /PRNews-wire/ -- The "Needle Coke Market Size, Market Share, Application Analysis, Regional Outlook, Growth Trends, Key Players, Competitive Strategies and Forecasts, 2021 to 2029" report has been added to ResearchAndMarkets.com's offering.

The premium type of petroleum coke and coal tar based coke is needle coke. Coke is a byproduct of oil refining and coal gasification process and is used as a fuel to manufacture iron, steel and anodes for aluminum smelters. Higher quality ultra-high power (UHP) graphite electrodes and cathode electrodes to melt the scrap metal for recycling steel in the electric arc furnace (EAF) are manufactured from needle coke.

For the production, of needle coke the separation of heavy fraction of aromatic feedstock is required to be done in fractionation unit. The thick fraction is then fed to coker unit to attain coking temperatures (3000°C). The furnace operation is critical since it has to 'delay' the feed to attain desired temperature. This minimizes the coke formation in the furnace. Thus, the effective extraction of needle coke is done in this step which is similar to delayed coking.

Based on the type of needle coke, the market is segmented into oil & gas and coal tar pitch derived. Needle coke is the major heating elements used in an electric arc furnace (EAF) for steel making. Scrap from old cars or appliances

are melted to form steel. The EAF steel furnace requires high quality coke for graphite electrode manufacturing. The demand from steel industry for specialty cokes is increasing for UHP (Ultra High Power) EAF to produce steel. The developed economies have huge demand of steel and aluminum due to its high consumption in automobiles, heavy equipment and machineries, aircraft amongst others. Graphitized cathodes are used in aluminum production and graphite electrodes are used in steel production. Thus, for graphitization of electrodes in metal production has led to high demand for needle coke globally.

In terms of grade, the needle coke is bifurcated into base premium, intermediate premium and super premium needle coke. The base premium needle coke has the highest coefficient of thermal expansion (CTE) that is less than 0.65 (10-6/oC). The sulfur content is less than 0.6% and hydrogen content is in the range of 0.035-0.055%. The intermediate premium coke has the CTE less than 0.5 (10-6/oC).

The xylene content is 2.12 g/cm<sup>3</sup> and hydrogen content is similar to base premium type. The super-premium needle coke has sulfur content less than 0.4%. The coefficient of thermal expansion is less than 0.4 (10-6/oC) Max. World's biggest manufacturers of needle coke also have super premium needle cokes with CTE as low as 0.1 (10-6/oC) Max. On the basis of end-user, the market is segmented into steel industry, alu-

minum industry, nuclear power plants and others (lithium batteries, aerospace, etc.)

U.S., China and Japan are the world's top manufacturers of needle coke. India, Russia, Germany and the U.K are the other major countries where needle coke and graphite electrode manufacturing is based. The world's largest manufacturer of needle coke is Conoco Phillips (Phillips 66). There are only 2 companies in the world which derive needle coke from coal tar pitch. Both the companies are Japan based. As of 2021, the global EAF based steel production is expected to witness high growth rate. This has led to similar rise in demand of the graphite electrodes. Eventually, the rise in graphite electrode demand is expected to trigger the demand for needle coke.

The key players present in this market are: Indian Oil Corporation (IOC), Sinopec Shanghai Petrochemical Company Ltd., Graphite India Ltd, Phillips 66, Mitsubishi Chemical Corporation, and Sea-Drift Coke LP among others.

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

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# LANXESS Increases Prices for Inorganic Pigments

The fields of application for synthetic iron and chromium oxide pigments from specialty chemicals company LANXESS are broad. Bayferrox and Colortherm are the main product groups used for coloration in the construction, paints and coatings and plastics industry. These high-tinting-strength inorganic pigments are produced according to strict sustainability criteria. Photo: LANXESS AG



in local currency. In some cases, price increase can be higher depending on product group and production site. Customers will be contacted individually as it applies to their products.

The price adjustment is required due to constantly raising raw material and energy cost as well as much higher freight rates.

**The LANXESS Inorganic Pigments business unit is the world's largest manufacturer of synthetic iron**

**oxides pigments and a leading producer of inorganic chrome oxides pigments. These products have a track record going back many decades as colorants for building materials, paints and coatings, plastics, paper and other applications. These high-tinting-strength inorganic pigments are produced according to strict sustainability criteria.**

Source : Lanxess

# CEO of SK Global Chemical Proposes Plan to Recycle 100% Plastic Products at 2021 P4G Seoul Summit

- P4G Seoul Summit was held to seek green practices to tackle climate change and promote sustainable development
- 5 thematic sessions: Water, Energy, Food and Agriculture, Cities, and Circular Economy
- SK Global Chemical puts forward Green Business initiatives and solutions to plastic wastes at a circular economy session
- CEO of SK Global Chemical: “we will deliver a complete plastic waste circulation system by working more closely with stakeholders and offering fundamental solutions”

attended the P4G (Partnering for Green Growth and the Global Goals 2030) Seoul Summit held from May 30th to 31st to represent the company at the panel discussion of the Circular Economy session.

The Summit served as a global acceleration event to pursue climate action and sustainable development. This year, P4G Seoul Summit focused on the theme “Inclusive Green Recovery Towards Carbon Neutrality.” It included a series of leaders’ sessions, breakout sessions, and thematic sessions targeting 5 main sectors: Water, Energy, Food and Agriculture, Cities, and Circular Economy.

The Circular Economy session dealt with Zero Waste policies, technologies, and applicable green practices across

different sectors including governments and businesses. CEO of SK Global Chemical, Na Kyung-soo participated in the panel discussion of this session. CEO Na shared the company’s Green Business practices including its key strategy “3R” (Reduce, Reuse, Recycle), which was designed to establish a plastic waste circulation system, and put forward solutions to global plastic wastes and measures toward an eco-friendly plastic ecosystem.

CEO Na Kyung-soo said, “SK Global Chemical’s objective is to re-circulate plastic wastes, which will lead to an eco-friendly plastic ecosystem. With a focus on developing core technologies, the company is strongly pushing ahead with Green Business. In addition, the

Continued On Page 39

SK Global Chemical has reported that CEO of the company Na Kyung-soo



## BAYER TO ADVANCE TWO FIRST-OF-ITS-KIND CELL AND GENE THERAPIES FOR PARKINSON'S DISEASE

Berlin, Germany, June 8, 2021 – Bayer AG announced today that BlueRock Therapeutics (BlueRock), a clinical stage biopharmaceutical company and wholly-owned subsidiary of Bayer AG, successfully administered the first dose of its pluripotent stem cell-derived dopaminergic neurons, named DA01, to a Parkinson's disease patient in their open-label Phase 1 clinical study. In parallel a gene therapy program also targeted at providing advanced therapies for Parkinson's disease is driven forward by Bayer's wholly-owned clinical-stage adeno-associated virus (AAV) gene therapy company Asklepios BioPharmaceutical, Inc. (AskBio). This program is currently recruiting and evaluating patients in an ongoing Phase 1b clinical study.

"The potential of BlueRock and AskBio's clinical candidates to treat Parkinson's disease could be immense," said Wolfram Carius, Head of Cell and Gene Therapy at Bayer. "For the first time, it might be possible to stop and reverse this degenerative disease and truly help patients with their high unmet medical need. The start of clinical trials represents the beginning towards a truly breakthrough treatment option to dramatically improve the lives of patients."

Parkinson's disease is the most common neurodegenerative movement disorder, impacting more than 10 million people worldwide. It is caused by nerve cell damage in the brain, leading to decreased levels of dopamine (a neurotransmitter involved in processes such as memory or movement). The disease often starts with a tremor in one

hand. Other symptoms include rigidity, cramping and dyskinesias (involuntary, erratic, writhing movements of the face, arms, legs or trunk). Dopamine substitutes, such as levodopa, are commonly used to mitigate the symptoms of the disease, but their effect diminishes as the disease progresses and there is currently no disease-modifying treatment available. By targeting the disease at its root cause, cell and gene therapies aim to go beyond symptomatic treatments.

**Using authentic dopaminergic neurons, BlueRock aims to re-innervate the affected regions of the human brain and reverse the degenerative process, potentially restoring motor function. BlueRock's clinical trial will enroll ten patients at sites in the United States of America (US) and Canada. In this study, patients undergo surgical transplantation of the dopamine-producing cells into the putamen, a deep brain structure affected by Parkinson's disease. The primary objective of the Phase 1 study (NCT04802733) is to assess the safety and tolerability of DA01 cell transplantation at one-year post-transplant. The secondary objectives of the study are to assess the evidence of transplanted cell survival and motor ef-**

**fects at one- and two-years post-transplant, to evaluate continued safety and tolerability at two years, and to assess feasibility of transplantation.**

AskBio's approach consists of an AAV that delivers human glial cell line-derived neurotrophic factor (GDNF) gene to the neurons within the putamen, resulting in expression and secretion of GDNF protein in brain regions impacted by Parkinson's disease. Long-term experiments using AAV-GDNF showed that sustained expression of GDNF can promote regeneration of midbrain neurons and significant motor recovery in rodents and non-human primate models. AskBio's clinical study is currently recruiting and evaluating patients in Phase 1b in the US to assess safety and preliminary efficacy. A total of 10 patients have been enrolled since the start of the Phase 1b study (NCT04167540) in August 2020.

Source : Bayer

## NEW 3D-PRINTABLE PEEK CARE FILAMENT FOR MORE INDIVIDUALIZATION IN MEDICAL TECHNOLOGY

- VESTAKEEP® Care M40 3DF for medical applications with body contact up to 30 days
- New possibilities in the individual treatment of patients
- Further filaments for additive manufacturing in the pipeline

Shanghai/Darmstadt. Evonik has developed a new 3D-printable PEEK



biomaterial for medical technology. With VESTAKEEP® Care M40 3DF, the specialty chemicals company is launching a polyether ether ketone filament for medical applications with body contact up to 30 days. The high-performance polymer can be processed in common extrusion-based 3D printing technologies such as fused filament fabrication (FFF) or fused deposition modeling (FDM). With the product launch, Evonik is expanding the possibilities for individual treatment of patients using additive manufacturing.

**The new PEEK filament is the latest addition to Evonik's "Care Grade" line based on the high-performance polymer VESTAKEEP® Care M40. The product impresses with its biocompatibility, excellent temperature and chemical resistance, very good sterilizability, and easy handling. The range of possible applications extends from patient-specific hearing aids to filigree prostheses and orthoses to surgical drilling aids for dentistry or individual surgical instruments.**

With a diameter of 1.75 mm, VESTAKEEP® Care M40 3DF is supplied in natural color on 500-gram spools that can be used directly in standard FFF/FDM 3D printers for PEEK materials. The filament is manufactured under clean-room conditions and then subjected to strict quality management for medical materials.

REVOLUTIONIZING MEDICAL TECHNOLOGY

"Following the commercial success of our VESTAKEEP® i4 3DF filament for 3D printing long-term permanent implants, we are now expanding the possibilities of modern medical technology for the individual treatment of patients with this new Care product," says Marc Knebel, head of the Medical Devices & Systems market segment at Evonik. "In order to open up further medical applications for even better quality of life, a broad material landscape is needed. We have our fingers on the pulse with our portfolio of 3D biomaterials and are consistently developing it further. Doing so, this year we plan to launch an innovative PEEK-based filament with osteoconductive properties allowing bone cells to adhere to implants more quickly. Our goal is to revolutionize medical technology by offering innovative material solutions."

For more than 20 years, Evonik has been the world's leading manufacturer of high-performance polymers and additives used in additive manufacturing. The specialty chemicals company offers the industry's most extensive portfolio of GMP-grade biomaterials used in the 3D printing of medical device parts designed for temporary and permanent body contact. In addition to VESTAKEEP® i4 3DF and VESTAKEEP® Care M40 3DF, the portfolio includes the RESOMER® line of bioresorbable filaments, powders and granules for implantable medical devices.

Source : Evonik

**SANDOZ ANNOUNCES  
EU LAUNCH OF  
READY-TO-DILUTE  
GENERIC PEMETREXED  
TO TREAT MOST  
PREVALENT FORM OF  
LUNG CANCER**

Basel, June 25, 2021 — Sandoz today announced the launch of generic oncology treatment Pemetrexed in 11 countries across Europe, including Germany, Switzerland, Netherlands, and Spain.

Pemetrexed, as a monotherapy or in combination with cisplatin, is indicated for first-line, second-line and maintenance treatment of patients with locally advanced or metastatic Non-Small Cell Lung Cancer (NSCLC) other than predominantly squamous cell histology, and for the treatment of chemotherapy naïve patients with unresectable malignant pleural mesothelioma.<sup>3</sup>

Globally, 1.8 million people died from lung cancer in 2020 including over 26,000 deaths from mesothelioma, and approximately 2.2 million new cases of lung cancer including 31,000 new cases of mesothelioma were diagnosed.<sup>4</sup> NSCLC is the most prevalent form of the disease, affecting approximately 85% of those diagnosed with lung cancer.<sup>5,6</sup>

**"At Sandoz, we are committed to using our expertise in product development to enable us to deliver high quality, innovative products that address the needs of patients and healthcare professionals," said Rebecca Guntern, Head of Sandoz Region Europe. "By providing Pemetrexed in a ready-to-dilute format and in an additional, higher-strength dosage, we believe that this treatment option will not only be more cost-effective for payers, but patients and physicians will also be able to benefit from the reduced**



## preparation steps required.”

Pemetrexed is a multi-targeted antifolate anti-cancer agent that disrupts crucial folate-dependent metabolic processes essential for cell replication. It inhibits folate-dependent enzymes critical to the de-novo biosynthesis of nucleotides leading to the disruption of DNA replication. Patients receive the treatment via a 10-minute intravenous infusion in a hospital setting.<sup>3</sup>

Source : Novartis

## NEW SOLIQUA® DATA SHOWS IMPROVED BLOOD SUGAR CONTROL WITHOUT WEIGHT GAIN VERSUS PREMIXED INSULIN

A new study of Soliqua (insulin glargine 100 Units/mL and lixisenatide, iGlarLixi) met its two primary endpoints and all key secondary endpoints in a head-to-head comparison against premixed insulin (biphasic insulin aspart 30, BIAsp 30) in adults living with type 2 diabetes, the most common form of diabetes, uncontrolled on insulin and one or two oral anti-diabetic

medicines. The findings were presented today at the American Diabetes Association (ADA) 81st Scientific Sessions<sup>1</sup> and simultaneously published in *Diabetes Care*.<sup>2</sup>

The study met both primary endpoints with Soliqua demonstrating noninferiority of blood sugar (HbA1c) reduction and superiority on body weight change from baseline compared to premixed insulin. The study also met its key secondary endpoints with Soliqua achieving a greater proportion of people reaching a HbA1c target of <7% without weight gain, a greater proportion of people reaching a HbA1c target of <7% without weight gain and without hypoglycemia, and superiority in reduction of HbA1c compared with those using premixed insulin.

“Concerns about hypoglycemia and weight gain are known barriers when advancing basal insulin therapy, especially with complex insulin regimens,” says Julio Rosenstock, Director of the Dallas Diabetes Research Center at Medical City, Dallas, TX, and main author of the study. “These results show improved outcomes with iGlarLixi over BIAsp 30, demonstrating better glucose control without body weight gain and less hypoglycemia. This combined benefit could help clinicians consider advancing

basal insulin therapy by switching to a once-daily fixed-ratio combination of basal insulin plus a GLP-1 receptor agonist rather than switching to a twice-daily premixed insulin regimen.”

A secondary analysis also found study participants using Soliqua reported greater improvements in patient-reported outcomes compared to premixed insulin as measured by Treatment-Related Impact Measure Diabetes (TRIM-D) and patient- and physician-rated Global Treatment Effectiveness Evaluation (GTEE) scores.<sup>3</sup> These tools include measurements of treatment burden, daily life, diabetes management, compliance, psychological health, and treatment effectiveness.

“While premixed is used by around 40% of people taking insulin globally to manage their type 2 diabetes today, recent real-world evidence suggests only 18.2% of people using it reach their blood sugar goal,”<sup>4,5</sup> said Sandra Silvestri, M.D., Ph.D., Global Medical Head of General Medicines at Sanofi. “Today’s results provide further information on Soliqua’s impact and patient-reported outcomes that could be considered by healthcare providers in regions such as India, China, the Middle East and North Africa, where premix is widely used.”

Source : Sanofi

## CHEMICAL TECHNOLOGY

## SOLVAY, L'ORÉAL AND ULTIMAKER ANNOUNCE THE THIRD EDITION OF PRESTIGIOUS ADDITIVE MANUFACTURING CUP

Brussels, June 24, 2021 -- Solvay is partnering with L'Oréal, the world's beauty leader, and Ultimaker, the global leader in professional 3D printing, to launch the third edition of its international Additive Manufacturing (AM) Cup competition. The contest gives students, engineers and manufacturers from around the world the chance to demonstrate their aptitude for 3D printing and create an innovative design for a 3D-printed real application.

Solvay has taken a lead in the rapidly evolving AM market and offers a growing range of specialty polymer filaments for applications in today's most challenging industries.

“Solvay’s AM Cup was introduced to showcase Solvay’s array of AM ready filaments and their potential for diverse complex industrial uses,” explained Brian Alexander, AM Global Product & Application Manager at Solvay. “We are pleased to collaborate with L'Oréal



who offer a tangible and challenging industrial application and partner with Ultimaker to 3D print our candidates' designs for assessment. Solvay continues to build a robust and diversified AM ecosystem encompassing key partnerships in the value chain to offer our customers high-performance 3D printable polymers and meet the rapid developments of a once niche-technology."

This partnership aims to develop a real-world industrial application, revolutionizing production line agility, and further accentuates the importance of optimizing materials, hardware and processes together when designing a successful 3D printing project.

"L'Oréal has a long history of encouraging innovation and engineering excellence. With this competition, we are proud to continue this tradition, offering the possibility to tackle a real-world industrial problem using 3D printing to accelerate agility," said Matthew Forrester, Head of Material Transformation & Recycling Science at L'Oréal.

The disruptive solutions offered by 3D printing technology enable complex geometric forms that cannot be made using conventional manufacturing technologies such as injection molding or machining, thereby accelerating the integration of 3D printing to greatly facilitate the manufacturing process.

"We are proud to support the Solvay AM Cup by offering our expertise and 3D printing facilities to help the young engineers turn their ideas into physical applications," said Miguel Calvo, CTO at Ultimaker. "It is a fantastic initiative that enables young professionals and engineers to leverage the full Ultimaker ecosystem to design an application for L'Oréal that increases their productivity, and at the same time creates flexibility in their production line. Solvay's high performance AM-ready materials meet the needs of our customers' most

challenging applications."

The material to be used has been specifically chosen from Solvay's portfolio of high-performance filaments and powders for 3D printing comprising Solef® polyvinylidene fluoride (PVDF), KetaSpire® polyetheretherketone (PEEK) and Radel® polyphenylsulfone (PPSU) filaments, which include medical and carbon fiber filled grades.

Candidates are invited to consult the competition details and register their interest in participating on Solvay's AM Cup portal by Sept. 30, 2021 the latest.

The competition will start on Sept. 1, 2021 and run through to mid-November.

The winner will be announced in January 2022 and will receive a 5,000 EUR prize from Solvay to be reinvested in academic, societal or entrepreneurial activities, an Ultimaker 2+ Connect printer and a high-profile tour of L'Oréal's production facilities.

Solvay's range of AM ready materials comprises (from left to right): KetaSpire® PEEK AM Filament® Solef® PVDF AM Filament® KetaSpire® PEEK AM Filament CF10® Radel® PPSU AM Filament. Photo: Solvay

Agile manufacturing used for lipstick manufacture within one of L'Oréal's production facilities. Photo: L'Oréal

Ultimaker S5 with the Air Manager, offering reliable dual extrusion, predefined print-settings, advanced active leveling, filament flow sensors and a seamless integration between hardware, software, and materials. Photo: Ultimaker

Source : Solvay

**TORAY LAUNCHING  
TORAYVINO™ SUPER**

## SLIM 607V FAUCET MOUNT WATER PURIFIER WITH COLOR DIGITAL DISPLAY

Tokyo, Japan, June 22, 2021 – Toray Industries, Inc., announced today that it will launch the Torayvino™ Super Slim 607V faucet-mounted water purifier exclusively in Japan in late June. This model incorporates a color digital display to indicate remaining filter capacity in three backlight color stages before cartridges need replacing. This high-capacity offering contains one cartridge. Pricing will be at retailer discretion. It will be available from mass merchandisers, home centers, appliance stores, and other retailers.

The sleek design makes it easy to see dishes when washing them. The purifier is designed for use with sloped faucets, which have become mainstream in recent years.

**Consumers have spent significantly more time at home since the COVID-19 pandemic began. Using tap water more frequently for cooking and drinking has made people more conscious about the safety and taste of that water. The new model is one fruit of Toray's development of safe and convenient water purifiers under the Torayvino™ brand, which it debuted in 1986.**

Source : Toray



## SOLVAY INTRODUCES RHEOZAN® BLC BIODEGRADABLE SUSPENSION AGENT FOR HOME AND PERSONAL CARE APPLICATIONS

**B**russels, June 14, 2021 - Solvay introduces a new biodegradable rheology agent, Rheozan® BLC, a natural and ready-to-use liquid polymer solution that delivers high suspension power in home and personal care products, yet without any impact on the formulation viscosity.

Trends and consumer expectations are shifting toward more naturally derived products. Formulators must develop high-performing products with advanced aesthetics, fewer synthetic chemicals and more eco-friendly materials.

**"Solvay's new Rheozan® BLC combines the best of science and nature. It is an innovative and flexible ingredient that leverages the full power of biotechnology with beneficial functions and excellent sustainability credentials," said Jean-Guy Le Helloco, global vice president, home and personal care at Solvay. "This COSMOS-validated ingredient enables new formulation possibilities**

**and addresses the market demand for biodegradable solutions, making it a win-win solution for formulators and consumers."**

Rheozan® BLC is derived from grey biotechnology. Its synthesis is based on starch fermentation by carefully selected bacterial strains that generate very uniform cellulose fibers. When added to home and personal care formulas, these nature-engineered fibers build a regular three-dimensional mesh, creating a highly effective suspension mechanism. It can suspend and stabilize visual cues such as pigments, natural exfoliating particles, perfume capsules, air bubbles, opacifier or emulsion, and insoluble agents such as zinc pyrithione or minerals.

Solvay's Rheozan® BLC belongs to a new generation of biotechnology-based ingredients that can revolutionize the chemical industry, harnessing the power of nature to combine higher performance with more safety and sustainability toward a more circular economy. For more information about Rheozan® BLC contact Solvay's experts.

Source : Solvay

tion of thermoplastic resins. The product, commonly used as a viscosity modifying agent in several formulations, has the same properties and performance as the version made with PE of fossil origin. Produced from sugarcane ethanol, the new solution offers a smaller CO2 footprint, is recyclable and has multi-market application.

With the arrival of PE wax from a renewable source on the world market, Braskem innovates and expands the I'm green TM bio-based portfolio with products that go beyond existing resins supplied to date. The I'm green TM brand represents the company's commitment to the circular economy and is comprised of renewable and recycled source solutions.

"For more than a decade, Braskem has been producing plastic of renewable origin. Since then, Braskem has been



## BRASKEM DEVELOPS THE WORLD'S FIRST POLYETHYLENE WAX FROM A RENEWABLE SOURCE

**B**raskem launches the world's first polyethylene (PE) wax from a renewable source, intended for the production of adhesives, cosmetics, paints and compounds used in the transforma-

looking for ways to support its customers in the search for new products to reduce their carbon footprint. After PE and EVA I'm green TM bio-based, we now bring PE wax from a renewable source to the global adhesives, cosmetics, paints and compounds market, which reinforces our commitment to becoming a carbon neutral company by 2050", explains Gustavo Sergi, director of Renewable Chemicals and Braskem Specialties.

**The I'm green TM bio-based poly-**



**ethylene used in the manufacture of renewable PE wax is capable of absorbing carbon dioxide from the atmosphere during its production cycle. In addition, the manufacture of renewable polyethylene from ethanol generates energy savings of around 80% compared to traditional routes. "We work daily with the objective of uniting innovation and sustainable development to generate a better impact on the planet and society, and this launch is one more result of our effort to decarbonize the value chain in which we operate."**

Source : Braskem

## **SOLVAY LAUNCHES BREAKTHROUGH ADHESIVE AND SURFACING TECHNOLOGIES FOR THE AEROSPACE INDUSTRY**

**A**lpharetta, June 22, 2021 - 8:00 EST - Solvay is launching AeroPaste® 1006, 1009 and 1100 adhesive pastes and BR® 179 non-chromate primer. These breakthrough aerospace adhesive and surfacing technology innovations not only increase part assembly efficiency but also offer unmatched processing flexibility, making them ideal for ever-increasing production rates.

AeroPaste® is Solvay's new generation of epoxy-based structural paste adhesives that provide film-like property and performance, comparable or superior to leading film adhesives on the market. Designed specifically to enable rapid assembly and automation, this new portfolio of paste adhesives will support industrialization requirements in the aerospace industry. AeroPaste® will

increase manufacturers' efficiency and output by enabling fast and easy application, and offer excellent tolerance to variations in bondline thickness. Aero-Paste® offers manufacturers maximum flexibility and meets a variety of application requirements: AeroPaste® 1006, 1009 and 1100 are now available commercially.

BR® 179, Solvay's next generation, sustainable, non-chromate primer is a breakthrough innovation in the world of aerospace primers. A truly sustainable solution for adhesive bonding, this non-chromated primer provides corrosion resistance comparable to benchmark chromated primers. BR® 179 offers superior tolerance to primer thickness variations, excellent mechanical properties and unmatched usage flexibility with an out-life of up to 180 days, making it the ideal primer for aerospace fabricators.

"Solvay's deep understanding of the industry's needs and challenges is driving our new product developments. By focusing on innovation, process efficiencies as well as sustainability, we provide a step change to our customers" said Mike Blair, Head of Research & Innovation for Solvay Composite Materials Global Business Unit.

Attend our on-demand technical presentations and our live product showcase (June 30th, 1-2pm PT) at SAMPE neXus 2021 virtual event to get the latest technical information on these innovations.

**Overall, Solvay's world-leading adhesive and surfacing technology support increased production rate, improved manufacturing efficiency and the growing demand for sustainable solutions. Our technologies are qualified by all major commercial and defense aerospace OEMs and enable the development of light, safe and fuel efficient aircraft.**

Source : Solvay

## **CHEVRON PHILLIPS CHEMICAL EARNS TOP HONORS FROM PLASTICS INDUSTRY ASSOCIATION FOR LAUNCH OF MARLEX® ANEW™ CIRCULAR PE**

**C**hevron Phillips Chemical received the annual Relfocus Sustainability Leadership Innovation Award by the Plastics Industry Association (PLASTICS) for being among the top 2021 industry innovators in sustainability. As the recipient of PLASTICS' foremost annual distinction, Chevron Phillips Chemical garnered high honors for the launch of its Marlex® Anew™ Circular Polyethylene product line, using advanced recycling technology to convert difficult-to-recycle plastic waste into high-quality raw materials.



"Receiving the 2021 Relfocus Sustainability Leadership Innovation Award underscores our commitment to advance a circular economy for plastics," said Benny Mermans, vice president of sustainability. "Through Marlex® Anew™ Circular Polyethylene and our expanding efforts to create sustainable streams for waste plastics, Chevron Phillips Chemical is well-positioned to deliver sustainable solutions for years to come."

Source : Chevron Phillips Chemical



### AIR PRODUCTS AND BAKER HUGHES TO COLLABORATE ON GLOBAL HYDROGEN PROJECTS

Air Products (NYSE:APD), a global leader in industrial gases and megaproject development, and Baker Hughes (NYSE: BKR), a world leader in advanced hydrogen compression and gas turbine technology, announced a strategic global collaboration to develop next generation hydrogen compression to lower the cost of production and accelerate the adoption of hydrogen as a zero-carbon fuel.

As part of the collaboration, Baker Hughes will provide Air Products with advanced hydrogen compression and gas turbine technology for global projects, including NovaLT16 turbines for Air Products' net-zero hydrogen energy complex in Edmonton, Alberta, Canada and advanced compression technology for the NEOM carbon-free hydrogen project in the Kingdom of Saudi Arabia. "Air Products chose Baker Hughes for its leading-edge compression and gas turbine offerings and robust hydrogen experience," said Dr. Samir J. Serhan, chief operation officer, Air Products. "This advanced technology is another key step toward achieving economically viable blue and green hydrogen and net-zero targets."

"Our transformative hydrogen compression and gas turbine technology lowers the overall production cost for new energy frontiers such as hydrogen and is a strategic enabler for key projects," said Rod Christie, executive vice president, Turbomachinery & Process Solutions at Baker Hughes. "Our proven technology is helping to accelerate the hydrogen economy, and our collabora-

tion with Air Products will be critical for a net-zero future."

Baker Hughes developed its first hydrogen compressor in 1962 and today has more than 2,000 units operating around the globe. Baker Hughes' hydrogen portfolio also includes gas turbines that can burn methane gas and hydrogen blends from as little as 5% to as much as 100% hydrogen.

**As the world's largest hydrogen producer, Air Products' extensive experience in project execution, plant operations and strength in the hydrogen supply chain, combined with Baker Hughes' seminal technology and experience, will be key to unlocking and accelerating the energy transition.**

Source : Air Products

**LYONDELLBASELL  
AND NESTE AGREE  
ON LONG-TERM  
COMMERCIAL  
RELATIONSHIP TO  
MAKE POLYMERS  
AND CHEMICALS  
FROM RENEWABLE  
FEEDSTOCK MORE  
WIDELY AVAILABLE TO  
GLOBAL BRANDS**

Rotterdam – June 17, 2021 – LyondellBasell (NYSE: LYB) and Neste announced a long-term commercial agreement under which LyondellBasell will source Neste RE™, a feedstock from Neste that has been produced from 100% renewable feedstock from bio-based sources, such as waste and residue oils and fats. This feedstock will be processed through the cracker at LyondellBasell's Wesseling, Germany, plant into polymers and sold under the Circulen-Renew brand name.

"We are delighted that our strategic relationship with LyondellBasell is further strengthened with this long-term commercial agreement. With LyondellBasell, we share both the innovative spirit and the sense of urgency to make active contributions towards combating climate change and accelerating the shift to a circular bio-economy. We made history together by joining forces in 2019 in the world's first commercial-scale production of bio-based polypropylene and bio-based polyethylene with verified renewable content. I am very much looking forward to the next industry milestones we can reach together," says Mercedes Alonso, Executive Vice President, Renewable Polymers and Chemicals at Neste.

"We are very pleased that together with Neste we can bring our customers one step closer to the creation of more sustainable end products," states Richard Roudeix, LyondellBasell Senior Vice President of Olefins and Polyolefins for Europe, Middle East, Africa and India. "The extended relationship with Neste is an important piece in our multi-pronged approach to deliver on our sustainability goals. We have already made some significant steps in this direction since the beginning of this year, amongst which the recent launch of our Circulen product family and the ISCC PLUS certification, which we have obtained for our European polymer sites."



**Through their collaboration, Neste and Lyondell-Basell are jointly contributing to the development of the European market for more sustainable polymers and chemicals solutions. By ensuring continuity with significant industrial-scale volumes of renewable polymers produced with renewable feedstock from bio-based sources, the companies wish to enable sustainability-focused brands to develop more sustainable products and offerings.**

In April 2021, LyondellBasell launched the Circulen family of products. LyondellBasell's CirculenRenew product line consist of polymers linked to renewable-based feedstocks, while polymers made from mechanically recycled materials are marketed under the brand name CirculenRecover and those linked to advanced (molecular) recycling are called CirculenRevive

Source : LyondellBasell

## **FRAUNHOFER, SABIC, AND PROCTER & GAMBLE JOIN FORCES IN CLOSED-LOOP RECYCLING PILOT PROJECT FOR SINGLE-USE FACEMASKS**

- The Fraunhofer Cluster of Excellence Circular Plastics Economy CCPE and its Institute for Environmental,

Safety and Energy Technology UM-SICHT have developed an advanced recycling process for used plastics.

- The pilot project with SABIC and Procter & Gamble serves to demonstrate the feasibility of closed-loop recycling for single-use facemasks.

Fraunhofer Institute UMSICHT, SABIC and Procter & Gamble (P&G) announced their collaboration in an innovative circular economy pilot project which aimed to demonstrate the feasibility of closed-loop recycling of single-use facemasks.

Due to COVID-19, use of billions of disposable facemasks is raising environmental concerns especially when they are discarded in public spaces, including parks, open-air venues and beaches. Apart from the challenge of dealing with such huge volumes of essential personal healthcare items in a sustainable way, simply throwing the used masks away for disposal on landfill sites or in incineration plants represents a loss of valuable feedstock for new material.

“Recognizing the challenge, we set out to explore how used facemasks could potentially be returned into the value chain of new facemask production,” says Dr. Peter Dziezok, Director R&D Open Innovation at P&G. “But creating a true circular solution from both a sustainable and an economically feasible perspective takes partners. Therefore, we teamed up with Fraunhofer CCPE and Fraunhofer UMSICHT’s expert scientists and SABIC’s Technology & Innovation specialists to investigate potential solutions.”

As part of the pilot, P&G collected used facemasks worn by employees or given to visitors at its manufacturing and re-

search sites in Germany. Although those masks are always disposed of responsibly, there was no ideal route in place to recycle them efficiently. To help demonstrate a potential step change in this scenario, special collection bins were set up, and the collected used masks were sent to Fraunhofer for further processing in a dedicated research pyrolysis plant.

**“A single-use medical product such as a face mask has high hygiene requirements, both in terms of disposal and production. Mechanical recycling, would have not done the job,” explains Dr. Alexander Hofmann, Head of department Recycling Management at Fraunhofer UMSICHT. “In**

**our solution, therefore, the masks were first automatically shredded and then thermochemically converted**

**to pyrolysis oil. Pyrolysis breaks the plastic down into molecular fragments under pressure and heat, which will also destroy any residual pollutants or pathogens, such as the Coronavirus. In this way it is possible to produce feedstock for new plastics in virgin quality that can also meet the requirements for medical products” adds**



## **Hofmann, who is also Head of Research Department “Advanced Recycling” at Fraunhofer CCPE.**

The pyrolysis oil was then sent to SABIC to be used as feedstock for the production of new PP resin. The resins were produced using the widely recognized principle of mass balance to combine the alternative feedstock with fossil-based feedstock in the production process. Mass balance is considered a crucial bridge between today's large scale linear economy plants and the more sustainable circular economy of the future, which today is operated on a smaller

scale but expected to grow quickly.

“The high-quality circular PP polymer obtained in this pilot demonstrates that closed-loop recycling is achievable through active collaboration of players from across the value chain,” emphasizes Mark Vester, Global Circular Economy Leader at SABIC. “The circular material is part of our TRUCIRCLE™ portfolio, aimed at preventing valuable used plastic from becoming waste and at mitigating the depletion of fossil resources.”

Finally, to close the loop, the PP polymer was supplied to P&G, where it was processed into non-woven fibers mate-

rial. “This pilot project has helped us to assess if the close loop approach could work for hygienic and medical grade plastics,” says Hansjörg Reick, P&G Senior Director Open Innovation. “Of course, further work is needed but the results so far have been very encouraging.”

The entire closed loop pilot project from facemask collection to production was developed and implemented within only seven months. The transferability of advanced recycling to other feedstocks and chemical products is being further researched at Fraunhofer CCPE.

Source : Sabic

## **INTERNATIONAL NEWS**

### **SOLVAY LAUNCHES ITS FIRST PARTIALLY BIO-BASED TEXTILE YARN**

Solvay is globally launching Bio Amni®, the first partially bio-based polyamide textile yarn developed by the company. It is a polyamide 5.6, which is produced entirely at the company's textile industrial unit in Brazil.

The development of Bio Amni® follows the growing global trend in demand for more sustainable textile products, especially bio-based materials. Solvay's research and innovation teams worked on the creation of the product for two years.

“Sustainability is one of the main drivers of the global textile market,” says Antônio Leite, global vice president of polyamides and fibers at Solvay. “Solutions and products must add value to the entire consumer chain - from its base to end consumers of textiles - and have less of an impact on the environment. Solvay's Bio Amni® is part of a portfolio evolution to offer customers the most

innovative products on the market.”

The textile sector currently faces three main challenges in relation to the environment and sustainability: resources, the production process, and disposal. Solvay already has developed sustainable alternatives in the production process, using cleaner energy sources, closed water circuits, and zero effluent emissions at its industrial unit in Brazil, as well as more biodegradable products to support more sustainable disposal. With Bio Amni®, Solvay is now offering its first partially bio-based textile yarn, further expanding on its diverse portfolio of sustainable products.

With the launch of Bio Amni®, sustainable textiles will now account for 30 percent of Solvay's global polyamide portfolio, a figure which the group expects to reach 50 percent in the next three years.

**Bio Amni® is just the latest of Solvay's innovations for the global textile market. In 2020, as a quick response to**

**COVID-19, the company launched Amni® Virus-Bac OFF, a functional polyamide that inhibits contamination between textiles and users, preventing the fabric transmitting viruses, including coronaviruses, and bacteria.**

The company also created Amni Soul Eco®, the world's first biodegradable polyamide textile yarn, which facilitates the decomposition of textile articles in about three years after disposal in controlled landfills.

Source : Solvay

**WORLD-CLASS, RUST-PROOF COATING AGENT MAKER, ZINCOTEC CO. LTD.'S**



## NEW ENTRY INTO THE NORTH AMERICAN MARKET CONFIRMED

SEOUL, South Korea, June 22, 2021 / SPRNewswire/ -- Zincotec Co., Ltd., a company specializing in water-soluble, high corrosion-resistance, anti-rust coatings, has newly entered the German market in 2021 and also shown potential for expanding into that of North America.

Zincotec is making a leap forward as a top coating company. While keeping the environment a first priority, Zincotec Co., Ltd. continues to make inroads into Asian countries such as China and Japan, as well as European countries such as Italy.

Its main product, Zinc Flake Coating Chemical Coating agents, under the GEOPERT® brand, is sold to 31 companies based in countries such as China, India, and Thailand. Zinc Flake Coating Chemicals are used in the automotive and electronics industries.

GEOPERT®, are water-soluble, non-hazardous products with low VOC, which can keep the working environment pleasant. In addition, all manufacturing processes occur within a closed system, so there is no atmospheric pollution.

**GEOPERT® passed 1,500 hours without corrosion (red rust) in the Salt Spray Test, demonstrating that its anti-corrosion effect will endure for more than 15–20 years. In addition, it was designated a world-class product (KOREAN WORLD-CLASS PRODUCT AWARD 2019) in recognition of its functionality as a low-temperature curing product.**

With recognition of its eco-friendly technology, Zincotec is strengthening its global position with sales to major corporations including Hyundai, Kia,

Mahindra, Tata, Samsung, and LG Electronics.

Company products and information can be viewed at the following link: (<http://www.zincotec.com/?l=en>).

Source : PRNewswire

## BASF SIGNS MOU WITH JS POWER TO DEVELOP AGRIVOLTAICS POWER GENERATION PROJECTS IN KOREA

- Used for the facility structure of Agrivoltaics, Boldur™ poles are sturdier and more resilient compared to conventional concrete structures
- Cooperation seeks to explore how arable farmland can be maximized for both solar power generation and agriculture production

Seoul, Korea – June 28, 2021 – BASF, together with JS Power Co., Ltd., (JS Power), a company specializing in project development of renewable energy and photovoltaic application, have entered a strategic Memorandum of Understanding (MoU) agreement to jointly promote the usage of BASF Boldur™ Poles for the facility structure of Agrivoltaics power generation projects in Korea. Agrivoltaics is where solar panels and arable farming are co-developed on the same land.

“Agrivoltaics is gaining renewed interest in South Korea due to new governmental targets to install 30.8 GW of solar by 2030 and increased desire from farmers to maximize the productivity of their agricultural land,” shares Kang Hee-Dong, CEO. “JS Power is delighted to be collaborating with BASF and working towards our common goal for a more sustainable future through more resilient infrastructure, advanced technology,

and innovative chemical solutions.”

**Under the agreement, both companies will cooperate in developing 100 megawatts of Agrivoltaics projects in Korea within three years and enhance the cooperation in technology, commerce, marketing, and business models. JS Power will actively promote Boldur for the design of their Agrivoltaics projects, while BASF will provide all required material solutions, coupled with full technical and commercial support.**

“Our collaboration with JS Power is a furtherment of BASF’s strong commitment towards more sustainable agriculture, durable construction, effective climate protection and increment of renewable energy in the global energy mix,” said Rohit Ghosh, Head of Business Management Construction Industry, Performance Materials Asia Pacific, BASF.

Made of Elastolit® polyurethane and enabled by our unique filament winding technology, Boldur poles have a breaking strength that is ten times greater than their weight. This enables the poles to stand firm in strong winds and resist cascades while traditional concrete poles could fall like dominoes during natural disasters, causing solar panels to topple and destroy agricultural crops. In addition, they are ultra-light at approximately one-fourth the weight of concrete poles and require less manpower and lifting equipment to install.

Apart from the Agrivoltaics industry, the robust, ultra-light Boldur has been used across Asia as utility poles for power generation and telecommunications towers. For more information, please visit [boldur.basf.com](http://boldur.basf.com).

Source BASF



*Continued from page 28*

company will do its part for the establishment of an eco-friendly plastic ecosystem by making 100% of its future plastic products directly and indirectly recyclable.”

CEO Na explained, “As a means to boost plastic recycling, SK Global Chemical is considering commercializing its pyrolysis liquefaction technology, where plastic bottle and vinyl wastes are decomposed with heat into a petrochemical raw material (fuel oil) through strategic partnership with global pyrolysis businesses.”

**CEO Na further added, “From the perspective of a corporate, profits must be generated in order to achieve a circular economy.” “We should improve plastic manufacturing processes through development of eco-friendly plastic manufacturing technol-**

**ogies and capital investments, making the products more competitive in terms of price, while saving costs of Certified Emission Reductions by cutting down CO2 emissions during the manufacturing processes through chemical recycling methods such as pyrolysis.” He also emphasized, “All businesses in the value chain including plastic raw materials and product manufacturers, and distributors and recycling companies should come forward and work together to accelerate the growth of the eco-friendly plastic market.”**

Vice President & Regional Director for Africa, World Resources Institute

(WRI), Wanjira Mathai said, Africa is seeing a surge of wastes since the outbreak of COVID-19 and its inadequate waste management system has had negative impacts on the environment and humans. She continued by suggesting all sectors step up and work together to reach circular economy and find the cross-sector linkages to establish a circulation system.”

Chief of UN Environment’s Resources & Markets Branch at the United Nations Environment Program (UNEP), Steven Stone stated that UNEP will assist governments to draw up circular economy policies and raise awareness across developing countries.

CEO of SK Global Chemical, Na Kyung-soo emphasized, “We need to build a circular economy through partnering and we cannot achieve it alone.” “SK Global Chemical will come up with fundamental measures to stamp out plastic waste from its production to recycling in partnership with stakeholders, leading to successful implementation of a plastic circulation system.”

Source : SK Innovation

## Asahi Kasei Joins PINFA and Strengthens the Activities for Safe and More Sustainable Flame Retardant Polymers

In June 2021 Asahi Kasei joined Pinfa – the Phosphorus, Inorganic and Nitrogen Flame Retardants Association – as the first Japanese polymer manufacturer. This membership is the company’s next step of strengthening its activities in Europe in regard to safe and more sustainable flame-retardant polymers. As part of the European Chemical Industry Council (CEFIC), Pinfa represents the manufacturers and users of non-halogenated phosphorus, inorganic and nitrogen flame retardants (PINFRs). With 31 producers of non-halogen flame retardant materials and polymers from various countries, this association is contributing to continuously improve the environmental and health profile of flame retardant products.

Taku Ishida, General Manager of the Engineering Plastics Division of Asahi Kasei Europe, on the Pinfa membership: “Europe is the leading region in regard to safety and environmental regulations. Joining Pinfa was the logical next step for us and allows us to closely observe the latest technological and regulatory developments in this field. At the same time, we can share our broad knowledge



## VIEWS AND STATEMENTS



“Solvay’s AM Cup was introduced to showcase Solvay’s array of AM ready filaments and their potential for diverse complex industrial uses, We are pleased to collaborate with L’Oréal who offer a tangible and challenging industrial application and partner with Ultimaker to 3D print our candidates’ designs for assessment. Solvay continues to build a robust and diversified AM ecosystem encompassing key partnerships in the value chain to offer our customers high-performance 3D printable polymers and meet the rapid developments of a once niche-technology.”

**- Brian Alexander, AM Global Product & Application Manager at Solvay.**

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“Arkema has been a leader in advanced bio-circular polymers for many years. Now, we are taking a huge step forward to make fluoropolymer grades using bio-sourced carbon only. It’s a remarkable innovation that we proudly share with our customers across the world. There is a real demand for more sustainable solutions and we are happy to play a leading role.”

**- Anthony Bonnet, Global R&D Director for Fluoropolymers**

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“Cristal One recyclable resins and the broad portfolio of Eastman Renew materials, FusionPKG now can offer a more sustainable solution without compromise across our extensive portfolio, What really stands out with these resins is how they allow us to create the crystal clear, high-end packaging we are known for, while still supporting key sustainability initiatives from our brands.”

**- Daniel Campbell, senior sustainability and packaging engineer, FusionPKG.**

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“This investment decision not only secured the depolymerization technology, which is a differentiated plastic recycling technology, to SK Global Chemical, but also laid a foundation to build an eco-friendly plastic cycle in Asia.” He added, “We look forward to collaborating closely with Loop Industries, which has great technology competencies in correlation to the plastics recycling category. Furthermore, it is our sincere intention to further expand and add value in the APAC region together with Loop Industries backed by its chemical recycling technology that will work towards realizing a plastic circular economy.”

**- CEO of SK Global Chemical Na Kyung-soo**

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“The trend towards sustainability has been accelerating, driven by consumer demand and more stringent legislation. Our customers are facing increasing pressure regarding sustainable innovations and challenges of plastics recyclability, With VALERAS, we create new value for plastics by supporting our customers on their sustainability journey with novel solutions and services. VALERAS shows our broader ambition: to establish a platform that covers all our additive solutions that contribute to the sustainability goals of our customers.”

**- Dr. Thomas Kloster, President, Performance Chemicals, BASF.**

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## VIEWS AND STATEMENTS



"Sunnvue™ technology represents a paradigm shift in LED lighting. It is possible to change the light of conventional LEDs and adapt it optimally for different applications. Supported by the Sunnvue™ technology, QDYESTM is the latest product we offer to display manufacturers in need of sustainable and wide color gamut display applications."

**- Julian Proelss, Business Manager Display, BASF Electronic Materials.**



"BASF has consistently demonstrated dedication and leadership in providing MIM feedstock for reliable, high volume metal parts production globally. Innovation and customer focus have always been mission-critical for us and is well embedded in our DNA. The new investment strengthens our capability to turn product ideas of our customers into customized "ready-to-use" MIM feedstocks for large scale production at metal injection molders."

**- Timo Schollmeier, Director Global Business Management Metal Systems BASF SE.**



"We at Reliance are excited to enter into a Strategic Partnership with ADNOC for establishing a world-class and world-scale chemical project at TA'ZIZ in Ruwais. This important milestone further bolsters our long-standing relationship with ADNOC, reaffirming our faith in the global vision of the UAE's wise leadership. It is also yet another testimony to the enormous potential in advancing India-UAE cooperation in value enhancement in the energy and petrochemicals sectors. The project will manufacture ethylene dichloride, a key building block for production of PVC in India. This is a significant step in globalizing Reliance's operations, and we are proud to partner with ADNOC in this important project for the region."

**- Reliance Industries Chairman and Managing Director, Mr. Mukesh D. Ambani**



"We are thrilled to be working with FusionPKG to introduce Cristal One and Cristal One Renew. FusionPKG's sleek, cutting-edge design sensibility was just what we were looking for to bring an entirely new product to market. With the Cristal One portfolio, we are able to bring together the best of both worlds — recycled and recyclable — and still provide the superior performance that brands and innovative design houses like FusionPKG demand for their packaging today."

**- Tara Cary, market development manager for Eastman cosmetics and personal care. "**



"This transaction substantially strengthens our existing elastomers portfolio, allowing us to bring a wider range of functionalized solutions into targeted growth areas including future mobility, medical, and sustainability. The reputation of the Santoprene™ brand in TPV is consistent with Engineered Materials' flagship brands including Hostaform® in POM and GUR® in UHMW-PE. With this product as part of the Engineered Materials portfolio and project pipeline model, we are confident that our joint commercial and technical teams across the globe will generate meaningful shareholder value."

**- Tom Kelly, senior vice president Engineered Materials.**



of flame-retardant engineering plastics and foams with other industry experts.”

**Asahi Kasei has a broad portfolio in the field of halogen-free and flame retardant polymers, including the modified polyphenylene ether (mPPE) XYRON™ and the polyamide 6.6 LEONA™. Leveraging its expertise in this area even further, the company has developed the**

**mPPE-based particle beads foam SunForce™, the first foam of its kind certified with an UL94 V-0 flame retardance. These materials are especially suitable for applications in the fields of automotive and E&E (electrical engineering and electronics).**

With the establishment of Asahi Kasei Europe in April 2016, the company has been continuously strengthening

its sales and marketing activities as well as the technical service for engineering plastics in Europe. This development culminated in the consolidation of sales, marketing, logistics, R&D and technical service at the new location at Düsseldorf harbor in March 2021.

Ishida continues: “Together with our R&D Center in Düsseldorf and our technical service network worldwide we will further provide the best possible solutions to our customers in regard to safe and more sustainable flame retardant polymers.”

Source : Asahi Kasei

## Mitsubishi Chemical Enters into a License Agreement for Chemical Recycling Process with Mura Technology

**M**itsubishi Chemical Corporation (MCC; Head office: Chiyoda-ku, Tokyo; President: Masayuki Waga) has entered into a license agreement with Mura Technology Limited (Mura; Head office: UK) pertaining to a process (HydroPRS™) for manufacturing raw materials (regenerated oils) for chemical products from plastic wastes.

MCC is continuing to consider the conversion of raw materials to non-fossil based materials and the development of technologies for chemical recycling of plastic waste in order to realize a circular economy. Based on this license agreement with Mura, MCC is planning to introduce HydroPRS™ to accelerate detailed studies toward the commercialization of chemical recycling of plastic wastes.

**HydroPRS™ is an innovative process for converting plastics into regenerated**

**chemicals and oils utilizing high-temperature and high-pressure supercritical water. Compared with the conventional direct pyrolysis technology, it is possible to obtain regenerated oils with a high yield and of the same quality as petroleum-derived raw materials (which can be put into existing facilities without pretreatment). With this process, we believe that plastic wastes that were previously incinerated or landfilled can be chemically recycled and enable significant reduction of CO2**

**emissions and fossil fuel consumption throughout the plastic life cycle, which will greatly contribute to the realization of a circular economy.**

In addition, Mura is aiming for the commercialization of large-scale chemical recycling of plastic wastes, and HydroPRS™ is one of the many chemical recycling technologies that are being developed at an accelerating pace.

MCC will continue to contribute to the realization of a circular economy by introducing innovative technologies and providing solutions for environmental and social issues.

Source : Mitsubishi Chemical



# BASF and Harvest Sign Joint Development Agreement for the use of Elastopor® Cryo in Prefabricated Insulation Pipes

- Elastopor® Cryo provides pipes with superior fire performance and high strength
- Harvest & BASF at China LNG & Gas International Exhibition: Hall 5.2, Booth no: A428, National Exhibition and Convention Center (NECC), Shanghai, June 23 - 25

Shanghai, China – June 23, 2021 – BASF and Shanghai Harvest Insulation Engineering Co., Ltd (Harvest) have signed a Joint Development Agreement (JDA) to develop prefabricated cryogenic pipes made with BASF's polyurethane rigid foam system, Elastopor® Cryo. The signing ceremony took place in the companies' joint exhibition booth located at the 7th China LNG & Gas International Exhibition & Summit in Shanghai.

According to the agreement, BASF will conduct product development and testing in its laboratories and technical services. Harvest will undertake responsibility for the design and production of the prefabricated pipes.

"By prefabricating the pipes in our plant, we can achieve increased production efficiency, which translates to lower operating costs and more savings for customers and end-users. Furthermore, thanks to BASF's Elastopor Cryo

solution, the pipes have superior fire performance with Limiting Oxygen Index (LOI) of > 30% and high strength," said Mr. Cheng Zhen Feng, Chairman of Harvest.

Apart from insulating pipes, Elastopor Cryo can also be used as a core insulation material for cryogenic containment systems, providing robust, maintenance-free, and outstanding thermal insulation for the transportation of liquefied gases at extremely low temperatures, ranging from minus 60°C to minus 163°C.

"Harvest and BASF have been strategic partners since 2019. Together, we have been working on the development of innovative polyurethane (PU) solutions for the fast-growing cryogenics and shipbuilding industries in China," said Rohit Ghosh, Head of Business Management Construction Industry, Performance Materials Asia Pacific, BASF. "Today's JDA and our joint participation at China LNG 2021 is a testament to the success of our collaboration, and we look forward to sharing more achievements in time to come."

**To help customers across Asia enhance the durability and longevity of their**

**cryogenic and shipping equipment, BASF has also developed a Elastocoat Cryo solution for use as protective coatings. The custom-formulated solution contains zero Volatile Organic Compounds (VOC) and exceptional adhesion to various substrates, including concrete and metal, ensuring carriers and on-shore structures are protected from corrosion, abrasion, and harsh weather conditions.**

Thanks to Elastospay Cryo, a spray-applied foam insulation system, cryogenic pipes, and storage or fuel tanks can have excellent temperature stability and insulation performance.

For more information about BASF's solutions for the Cryogenics industry, [click here](#).

Source : Basf

## Sabic Certified Renewable Polymers Used in New more sustainable Delizio Coffee Capsules

SABIC, a global leader in the chemical industry, announced that Delica AG will be introducing a new range of more sustainable coffee capsules based on SABIC's certified renewable polymers

for use in its proprietary Delizio capsule machines. Delica will be using certified renewable polypropylene (PP) resins in the coffee capsules. The bio-feedstock based "second generation" materials are

part of SABIC's TRUCIRCLE™ portfolio of circular products and services. The new capsules were introduced in the market in April 2021 and replace fossil-based virgin PP.



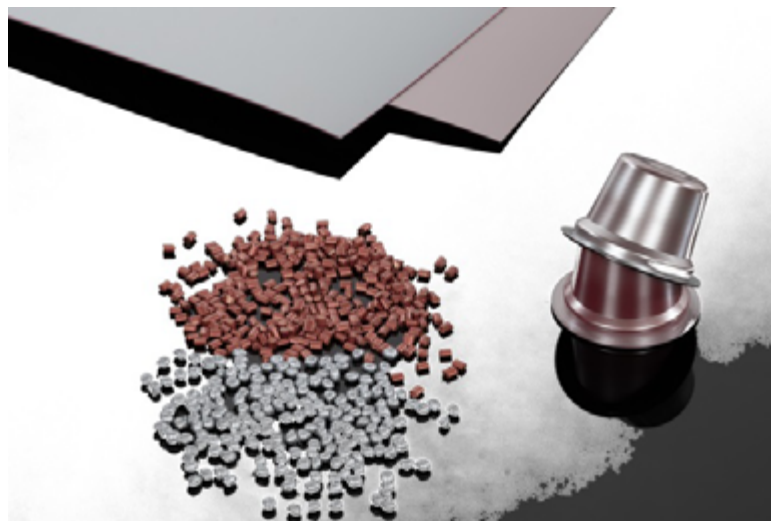
As part of its commitment to the Delizio coffee capsule project, SABIC supplies its certified renewable SABIC® PP materials to ALMA Packaging for conversion into a plastic film from which the capsules are thermoformed. Delica fills and closes the capsules, which are then sold to consumers through its parent company, Migros, Switzerland's largest retail and supermarket chain. SABIC's renewable PP materials are produced from tall oil, an animal-free and palm oil-free feedstock which is not in direct competition with human food production sources. The tall oil is a waste product from the wood pulping process in the paper industry. SABIC's certified renewable PP resins offer the same high quality and purity as virgin PP made from fossil fuel.

"A life cycle study conducted by Carbotech has shown that we can significantly reduce the environmental footprint of our Delizio capsules by replacing our former fossil-based main component with a renewable polypropylene material based on tall oil," says Ralf van den Bragt, Head of Business Unit Coffee at Delica AG. "With a certified renewable content of at least 65 percent, the environmental impact is reduced by approx. 40 percent per capsule."

"Our bio PP films with SABIC's renewable polymers provide the same convenient processing properties as conventional PP films while leading to plastic packaging solutions with high CO2 savings," adds Philipp Broch, Managing Director at ALMA Packaging AG. "They can be made with plastic based on renewable feedstock of up to 95 percent, as specified by the customer and certified by mass balance accounting."

**The sustainability value or contribution of SABIC's certified renewable poly-**

**mers is validated using a mass balance approach under the widely recognized International Sustainability & Carbon Certification (ISCC PLUS) scheme. Mass balance is determined to allocate the renewable content used in production and**



**conversion of the plastic material to the ultimate application. This allows brand owners like Migros to highlight and quantify the more sustainable choice consumers can make by purchasing end products packaged in renewable plastics. The ISCC PLUS accreditation verifies that the mass balance accounting follows predefined and transparent rules. In addition, the certification also provides traceability throughout the partners' entire supply**

**chain from the feedstock to the final product.**

Moreover, a cradle-to-gate lifecycle analysis has confirmed the sustainability value or contribution of SABIC's certified renewable materials. From sourcing the raw feedstock to producing the polymers, each ton of the company's bio-based PP and PE resin reduces CO2 emissions by an average of 4 kg as compared to fossil-based virgin alternatives, while at the same time cutting fossil depletion by up to 80 percent. The study was carried out according to ISO 14040 and has been validated in a critical third-party review.

"Fossil depletion and waste are among the biggest challenges on our planet and require a fundamental transformation of the value chain in the plastics economy," explains Abdullah Al-Otaibi, General Manager of

Engineering Thermoplastics & Market Solutions for Petrochemicals at SABIC. "Our vision is that plastics should be sustainably sourced and must never end up in the environment. With our TRUCIRCLE initiative, we have positioned ourselves at the forefront of this quest and are helping converters, designers, and brand owners to collaborate and gain a sustainable edge by using high-quality recycled, circular or renewable polymer materials."

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. Read more here.

Source : Sabic



# Eastman expands its portfolio of sustainability offerings with Cristal™ One recyclable resins for cosmetics

FusionPKG, an Aptar Beauty + Home company, is introducing several new products using Cristal One, as well as other sustainable resins from Eastman's Cristal Renew portfolio with high levels of certified recycled content. \* Cristal One is also known as Cristal™ One Renew be available with up to 50% certified recycled content generated by Eastman's molecular recycling technologies. These products offer both certified recycled content and RIC1 recyclability, while giving brands the freedom of design they need.

"With the recyclable Cristal One resins and the broad portfolio of Eastman Renew materials, FusionPKG can now offer a more sustainable solution without compromise in our extensive portfolio," said Daniel Campbell, Senior Sustainability and Packaging Engineer, FusionPKG is that they allow us to make the crystal clear, high quality packaging we are known for while supporting key sustainability initiatives of our brands. "

**FusionPKG is launching five of its distinctive, custom packaging creations**

**in Eastman's new Cristal portfolio, including the Max Out series within the merchandising-friendly and highly acclaimed Space Max collection. The Space Max collection includes an airless bottle, a modern ampoule dropper, an atmospheric bottle and a doo-foot bottle in Cristal Renew and a skin care jar in Cristal One.**



Through FusionPKG BeautyLab, the turnkey division of FusionPKG, the company can create innovative formulations to provide

a total solution approach. FusionPKG also plans to work with brands to develop custom packaging using the full range of Cristal Renew with certified recycled content and Cristal One.

"We are thrilled to be partnering with FusionPKG to introduce Cristal One

and Cristal One Renew. FusionPKG's sleek, state-of-the-art design was exactly what we were looking for to bring an entirely new product to market," said Tara Cary, Market Development Manager for Eastman Cosmetics and Toiletries." With the Cristal One portfolio, we're in able to combine the best of both worlds - recycled and recyclable - while still delivering the superior performance that brands and innovative design houses like FusionPKG demand for their packaging today. "

Cristal One meets California / ASTM guidelines for RIC1 marking and has received APR Critical Guidance recognition for recyclability. Further recognitions are being examined and will follow shortly. The Cristal One portfolio includes Cristal One, Cristal One Pro and Cristal EN as well as the corresponding Renew materials - giving brands the opportunity to meet a wide range of application requirements for skin care and color cosmetics with wall thicknesses of up to 12 mm.

Visit [eastman.com/cristal](http://eastman.com/cristal) for more information on Cristal One and Eastman Renew skin care and color cosmetic packaging materials.

Source : Prnewswire

## Asahi Kasei obtains "OK Biodegradable MARINE" Certification for Bemliese Continuous-Filament Cellulosic Nonwoven Fabric

Asahi Kasei obtained the "OK biodegradable MARINE" international certification in January 2021 that veri-

fies the marine biodegradability of Bemliese™ continuous-filament cellulosic nonwoven fabric.

Bemliese™ has drawn attention as a sustainable material, and its demand is growing overseas. To further raise



competitiveness in global markets with a uniform brand image across all applications and regions for higher brand value, the logo, tagline, and website for Bemliese™ have been renewed. OK biodegradable MARINE is a well-known certification issued by TÜV AUSTRIA BELGIUM NV/SA1 in Europe, where proactive adoption of bioplastic2 is advancing. Being made using environmentally friendly technology with 100% cotton linter as the raw material and strict control of chemical substances, Bemliese™ has already obtained the international certifications OK compost INDUSTRIAL3, OK compost HOME4, and OK biodegradable SOIL5, making OK biodegradable MARINE the fourth biodegradability certi-



fication obtained.

**Manufactured only by Asahi**

**hi  
Kasei,  
Be-**

**mliese™ is a continuous filament nonwoven fabric made from cotton linter, the short fibers around cotton seeds. Featuring high liquid absorption and retention, environmental**

**compatibility being derived from natural material, and low impurities, Bemliese™ is used in a wide range of applications such as cosmetic facial masks and disinfectant wipes. Asahi Kasei will further expand applications for Bemliese™ by leveraging the marine biodegradability certification.**

Asahi Kasei continues to advance the development of technology for environmentally compatible materials as part of its contribution to sustainability for the world.

Source : Asahi Kasei

## Air Products and Baker Hughes to Collaborate on Global Hydrogen Projects

**A**ir Products (NYSE:APD), a global leader in industrial gases and megaproject development, and Baker Hughes (NYSE: BKR), a world leader in advanced hydrogen compression and gas turbine technology, today announced a strategic global collaboration to develop next generation hydrogen compression to lower the cost of production and accelerate the adoption of hydrogen as a zero-carbon fuel.

As part of the collaboration, Baker Hughes will provide Air Products with advanced hydrogen compression and gas turbine technology for global projects, including NovaLT16 turbines for Air Products' net-zero hydrogen energy complex in Edmonton, Alberta, Canada and advanced compression technology for the NEOM carbon-free hydrogen project in the Kingdom of Saudi Arabia.

"Air Products chose Baker Hughes for its leading-edge compression and gas turbine offerings and robust hydrogen experience," said Dr. Samir J. Serhan, chief operation officer, Air Products. "This advanced technology is another key step toward achieving economically viable blue and green hydrogen and net-zero targets."

**"Our transformative hydrogen compression and gas turbine technology lowers the overall production cost for new energy frontiers such as hydrogen and is a strategic enabler for key projects," said Rod Christie, executive vice president, Turbomachinery & Process Solutions at Baker Hughes. "Our proven technology is helping to accelerate the hydrogen economy, and our collaboration with Air Products will**

**be critical for a net-zero future."**

Baker Hughes developed its first hydrogen compressor in 1962 and today has more than 2,000 units operating around the globe. Baker Hughes' hydrogen portfolio also includes gas turbines that can burn methane gas and hydrogen blends from as little as 5% to as much as 100% hydrogen.

As the world's largest hydrogen producer, Air Products' extensive experience in project execution, plant operations and strength in the hydrogen supply chain, combined with Baker Hughes' seminal technology and experience, will be key to unlocking and accelerating the energy transition.

Source : Air Products



# Clariant Completes its Divestment Program by Reaching Agreement to Divest its Pigments Business

- Definitive agreements signed by a consortium of Heubach Group and SK Capital Partners to acquire Clariant's Pigments business
- Enterprise Value of CHF 805 million to CHF 855 million, representing a 10.7x to 11.4x stand-alone adjusted EBITDA multiple per April 2021 (LTM) depending on an earn-out payment of CHF 50 million
- Clariant will be reinvesting for a 20% ownership stake in the combined business
- Closing anticipated in the first half of 2022

Muttenz, June 14, 2021 – Clariant, a focused, sustainable and innovative specialty chemical company, today announced that it has reached definitive agreements for the divestment of its Pigments business to a consortium of Heubach Group (“Heubach”) and SK Capital Partners (“SK Capital”) at an Enterprise Value (EV) of CHF 805 million to CHF 855 million on a cash and debt free basis, depending on an earn-out payment of CHF 50 million contingent on the 2021 financial performance of Clariant's Pigments business. This represents a multiple of 10.7 to 11.4 times the stand-alone adjusted 12-month EBITDA per April 2021 (LTM).

At the time of closing of the transaction, Clariant will reinvest to become a 20% shareholder alongside Heubach and SK Capital in the ultimate holding company. The combined business will be a global pigments player with approximately 3 000 employees generating more than EUR 900 million in annual sales and strong service and production

capabilities across the globe. The reinvestment enables Clariant to further benefit from the improving profitability of the Pigments business resulting from the initiated efficiency program and to participate in the future growth opportunities as well as synergies of the combination with the Heubach Pigments business.

The transaction is subject to customary closing conditions and regulatory approvals and is expected to close in the first half of 2022. The share of the participation in Infraser Höchst, Germany, attributable to Clariant's Pigments business is not part of this transaction.

“We are pleased to announce the agreement with Heubach and SK Capital for the sale of our Pigments business. This achievement represents a final step in the divestment program and portfolio repositioning announced in July 2018. We are confident that with Heubach and SK Capital, we have found the right owners of this business, for our customers, our colleagues, and our other stakeholders. Now our focus can fully be on growing revenue and profitability of our core Business Areas: Care Chemicals, Catalysis and Natural Resources”, said Conrad Keijzer, Chief Executive Officer of Clariant.

**Johann Heubach, Chief Executive Officer of the Heubach Group, noted “We have been in pigments for more than 200 years. My late father and I set out to drive consolidation in the pigments industry, and the**

**combination of Heubach and Clariant Pigments is a major milestone in this vision. The fit between Heubach and Clariant Pigments is perfect. The combination of industry leading technologies, a product portfolio serving a wide range of customer requirements and global production and service footprint will give the newly formed Heubach Group the ability to serve our global customer base in the coatings, plastics, inks and specialty applications fields with industry leading products and services.”**

Aaron Davenport, a Managing Director of SK Capital, noted “Clariant Pigments is a premier global colorant solutions provider, and, together with our new partners, the Heubach Group and Clariant, we see a tremendous opportunity to create significant value for all stakeholders.”

Once completed, Clariant will have finalized its intended divestments as part of its portfolio upgrade, having previously divested the Healthcare Packaging and Masterbatches businesses. The Pigments divestment concludes Clariant's transformation into a high value specialty chemical company with above-market growth, higher profitability, and stronger cash generation. The proceeds



## Price as on June 30, 2021

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

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



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

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

## CHEMICAL MARKET

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of the Pigments divestment will be used to invest into growth projects within the core Business Areas, execute the strategy along sustainability and innovation, fund the performance improvement programs as well as strengthen Clariant's balance sheet and fund the rein-

vestment into the Clariant-Heubach combined Pigments business.

Clariant's Pigments business is a leading global provider of superior quality organic pigments, pigment preparations and dyes which are used in many appli-

cations such as the automotive industry, for industrial and architectural coatings as well as for the plastics industry. In 2020, the unit's 1,900 employees generated approx. CHF 850 million in sales on a stand-alone adjusted basis.

Source : Chemical Market

## Avevas Fourth Global Digital Conference to Focus on Operational Agility Resiliency and Innovation and Introduce PI System

Mumbai, India, 15th June 2021 - AVEVA, a global leader in industrial software, driving digital transformation and sustainability, will host its fourth AVEVA World Digital (AWD) conference on the 17th June 2021. Aimed at leaders and decision makers interested in innovative industrial technology, to deliver digital transformation and strengthen resilience in a challenging environment, this is the first joint AVEVA and PI System event since the company acquired OSIsoft earlier this year. AWD, a half-day event, will explore how data-led insights infused with artificial intelligence can help organizations optimize their value chains for long-term business growth.



First Lady Michelle Obama tapped into her aerodynamic training bounce back – a secret she will share with AWD attendees.

**“I am looking forward to virtually engaging our cus-**

**tunities,” commented Peter Herweck, CEO, AVEVA.**

**“We have witnessed how Cloud, and the Industrial Internet of Things (IIoT) continue to drive operational resilience in a digital-first environment.**

**Today, AVEVA's software is enabling organizations, throughout the globe, to harness greater efficiencies, increase agility and accelerate growth - all key factors in also advancing sustainability for industries.”**

AVEVA's recently appointed CEO, Peter Herweck, will kick-off proceedings with a session that lays out how Performance Intelligence, the concept developed by AVEVA to explain the outcome of combining information, artificial intelligence and human insight. Also, in the presenter line-up will be Nicole Malachowski, the first female United States Air Force fighter pilot to be part of the elite Thunderbirds squadron, who will address resilience and innovation by speaking from her own debilitating experience with Lyme Disease. Having lost the ability to read, write, walk, and fly, the one-time advisor to former US

**tomers and partners at my first AVEVA World Digital as the company CEO and the first for former OSIsoft customers. Over the past year, digital transformation has demonstrated how trusted data and artificial intelligence can reshape the future of industries, as well as create new experiences and business oppor-**

Other keynote speakers will include a mix of AVEVA and former OSIsoft speakers - Lisa Johnston, Chief Marketing Officer and Chief Sustainability Officer, AVEVA; Norton Green, Director of Executive Engagements, AVEVA; Rob McGreevy, Executive Vice President of Operations Business, AVEVA and Rónán de Hooge, Head of Information Management Business Unit, AVEVA. A customer panel session comprising AVEVA and heritage OSIsoft customers, including Enbridge, Nutrien and General Mills, will end proceedings.

Source : Chemical Market



# Clariant's Glucamides Win ACC Sustainability Leadership Award

- Significantly lower emission profiles than other widely-used mild surfactants for personal care & cleaning products
- Increased transparency supports informed customer decision-making on reducing carbon footprint
- GlucoTain® and GlucoPure® ingredients offer sustainability benefits plus powerful foaming and cleaning properties

Muttenz, June 10, 2021 – Clariant is proud to announce that its low-carbon footprint Glucamide surfactants – its GlucoTain® and GlucoPure® product ranges – today received an American Chemistry Council (ACC) Sustainability Leadership Award, in the category Product Safety, Innovation and Transparency.

The ACC honor recognizes Clariant's sugar-based surfactants for personal care and home care cleaning products, which are demonstrated to perform as effectively as widely-used existing surfactant solutions however with significantly lower emission profiles. The smaller carbon footprint is attributable to the feedstocks used to develop the product and the fewer processing steps needed in the ingredients' manufacture.

Chris Jahn, ACC President and CEO, comments: "The chemical industry is one of the most innovative in the world, continuously helping provide solutions to some of the world's greatest challenges. At a time when climate-conscious companies are seeking to reduce

the carbon footprint of the material they use and the processes in the value chain, we applaud Clariant's efforts towards increased transparency about life cycle impacts and lower emissions in connection with their glucamide offerings, to help support customers' informed sustainability decision-making. Their contribution to delivering safe chemistry, innovation and transparency can help progress sustainability commitments across the personal care and home care value chains."

**Christian Vang, Global Head of Business Unit Industrial and Consumer Specialties at Clariant, adds: "Many consumers are looking for personal care and home cleaning prod-**



**ucts with milder product formulations that also offer powerful foaming and cleans-**

**ing properties. By using these glucamides, formulators get precisely this performance assurance plus multifunctionality which**

**means, compared to other surfactants, fewer components such as thickeners and conditioning agents are needed. The glucamides improve material efficiency and contribute a more efficient use of resources, aligning to the United Nations Sustainable Development Goals of responsible consumption and production."**

In a cradle-to-gate carbon footprint analysis[1] considering 100% active content, excluding the solvent from the glucamides formulation, the glucamides show a lower carbon footprint of at least 1.6 kgCO<sub>2</sub> per kg of active content. While in a comparison including the bio-based solvent in the glucamides formulation, the glucamides save at least 1.2 kgCO<sub>2</sub> per kg of active content.

Clariant's low-carbon glucamides are readily biodegradable products with up to 96 percent Renewable Carbon Index, high biomass and good ecotox profile. They are COSMOS-, Nordic Swan- and Halal-certified. The products also do not require a chronic aquatic toxicity label or irritant label according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). They create new possibilities to go the next step in developing innovative products and platforms based on sulfate-free, CAPB[2]-free and betaine-free formulations for a wide range of applications.

Source : Chemical Market



# DKSH Successfully Installs Somas Innovative Flexographic Printing Press Optima in India

DKSH has completed the installation of SOMA's new flexographic printing press of the Optima range, SOMA 880 Optima CI Flexo press, at the main plant of Multiflex Polybags (P) Ltd. in Chennai, India.

Mumbai, India, June 16, 2021 – DKSH Business Unit Technology, a leading Market Expansion Services provider and distributor of packaging, printing and converting equipment, has once again partnered with SOMA, a leading manufacturer of printing and converting solutions for flexible packaging. As a result of this collaboration, DKSH has successfully installed SOMA's new compact Optima flexographic printing press at Multiflex Polybags, a leading flexible packaging producer of labels, pouches and polybags, in its main plant at Chennai, India.

DKSH offers advanced industrial solutions in the printing, packaging and converting industries, serving various industries like food and beverage, health, beauty and personal care as well as pharmaceutical segments.

The compact 8-color SOMA 880 Optima CI Flexo press installed at Multiflex, is a highly automated press with all the bells and whistles for automated make-

ready, registration and cleaning purposes without waste of material and time. The press runs at a speed of 300 meters a minute and can print materials with a width of 820mm.

**Rajendra Mehta, Director, Multiflex Polybags, said:**



**"This press is a must-have for every flexible packaging printer and converter, and its power packed in a compact space provides us with an extra armor in our arsenal. The machine is very versatile in terms of material handling and enables quick job changeovers for shorter runs. We are look-**

**ing forward to producing high-quality printing jobs with SOMA Optima. We thank DKSH and SOMA for their continuous support in these challenging times."**

Pavla Kusa, Commercial Director, SOMA, commented: "While we certainly live in a globally connected world, SOMA understands that local resources are significant reference centers to explore and test new trends and innovations in flexographic printing. We are very happy, since this is the first time that the Optima press has been installed in India, following the previous installations of other models from SOMA's Flexo Family"

Suhas Kulkarni, General Manager, Asia Pacific – PPC, DKSH, added: "The successful installation of SOMA 880 Optima CI Flexo press at Multiflex at the end of March 2021, during the second wave of the pandemic was an excellent achievement for DKSH. It required coping with elaborate travel permissions and safety requirements, both for the DKSH and SOMA installation engineers. At DKSH, we provide extensive technical, industry and service expertise to ensure our business partners' success."

Source : Chemical Market

## Archroma launches its new color atlas for polyester to turn inspiration into a collection in just a few clicks

- A library of 1'440 off-the-shelf color standards, adding to the already available 4'320 colors of the 'Color Atlas' for cotton
- Online and physical library of colors

allowing increased speed-to market for sportswear and fashion designers, brands, retailers and manufac-



turers.

Reinach, Switzerland, 8 June 2021 - Archroma, a global leader in specialty chemicals towards sustainable solutions, today announced the launch of its new Color Atlas by Archroma® Polyester Library, with 1'440 colors for sportswear, athleisure, swimwear, children's clothing, shoes, fashion and home textiles.

In 2016, Archroma launched the Color Atlas by Archroma®, a unique tool dedicated to providing fashion designers and stylists with off-the-shelf color inspiration for cotton that can be implemented in production with just a few clicks.

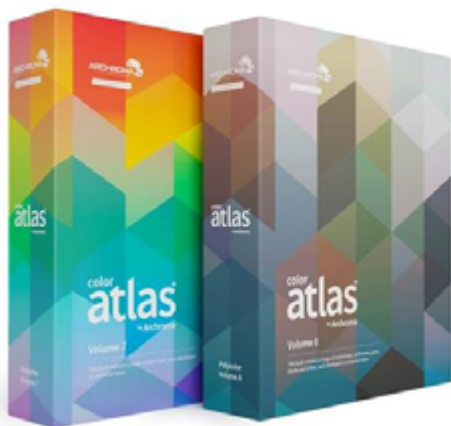
This original Color Atlas Cotton Library today contains 4'320 colors, almost double compared to similar tools available to textile and fashion specialists, with options for purer ingredients and lighter resource usage for brands exploring more sustainable collections.

'Engineered Color Standards' readily available for every color ensure the entire supply chain is aiming for the same color and are supported via worldwide

technical dyeing support. The result is seamless color management from the color selection to its implementation in production.

### INTRODUCING THE COLOR ATLAS BY ARCHROMA® POLYESTER LIBRARY

Building on this success, Archroma is now introducing a Color Atlas library with 1'440 colors carefully selected in collaboration with fashion, sportswear and trend experts.



The new Color Atlas by Archroma® Polyester Library brings together colors in line with current trends, from the most neutral tones to the most vivid hues to fluorescent colors.

### INTUITIVE USE

Composed of two volumes, the Color Atlas by Archroma® Polyester Library allows professionals to quickly compose the palettes they need:

- Colorful book covers indicate the shades that lie within each book, making it easy to select your palettes
- Each volume's accordion-fold book design yields quick, intuitive browsing of all colors allowing for fast cre-

ation of mood boards and palettes.

- Also available online, the Color Atlas by Archroma® Polyester Library makes it possible to search for the exact color of an object or garment using a photo, thanks to its 'color on the go' search tool.
- A simple click on each color also lets the user know additional information including eco-labels for the dyes used.

### EXTREMELY RESISTANT AND REPRODUCIBLE COLORS

In line with the most demanding performance specifications, the shades of Archroma's first Color Atlas by Archroma® Polyester Library are characterized by their:

- Excellent resistance to washing, so that they can be easily used for the design and production of sportswear fabrics and articles,
- Achievability and reproducibility in global production supply chains,
- Compliance with the main ecological standards, such as bluesign®, Oeko-tex® or ZDHC, as well as the specifications of major brands.

Source : Chemical Market

## Worlds 1st Nano Urea Introduced by IFFCP for the Farmers Across the World

- Prime Minister calls for a reduction in the use of Urea in the soil, inspired IFFCO for doing research and introduction of Nano Urea Liquid
- Effective and efficient Nano Urea Liquid is developed indigenously through proprietary technology at

IFFCOs Nano Biotechnology Research Centre (NBRC) in Kalol, Gujarat in the tune of 'Atmanirbhar Bharat' and 'Atmanirbhar Krishi'.

- One 500 ml bottle of Nano Urea Liquid would replace at least one bag of conventional Urea

- A Sustainable Solution for Plant Nutrition with higher Nutrient Use Efficiency, and reducing soil, water and air pollution.
- Huge Impact on quality of underground water, very significant reduction of global warming with a



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

## PRODUCT LIST

### 1 Amino

AAKAR DYES AND CHEMICALS Pg 12

### 1 Naphthol

AAKAR DYES AND CHEMICALS Pg 12

### 2(4 Ethyl Benzol)

Mavani Chemicals Pvt. Ltd. Pg 11

### 2(4 Methyl Benzoyl)

Mavani Chemicals Pvt. Ltd. Pg 11

### 2, 6. Dihydroxy Naphthlene

AAKAR DYES AND CHEMICALS Pg 12

### 2 Naphthol

AAKAR DYES AND CHEMICALS Pg 12

### 3,6 Disulfonic Acid

AAKAR DYES AND CHEMICALS Pg 12

### 4- Sulfonic Acid

AAKAR DYES AND CHEMICALS Pg 12

### 6BA

Chemilife Enterprises Pg 9

### 6 Nitro

AAKAR DYES AND CHEMICALS Pg 12

## A

### Acetic Acid

KRISHNA SOLVECHEM LTD. Pg 10

### Acetone

KRISHNA SOLVECHEM LTD. Pg 10

### Acetonitrile

KRISHNA SOLVECHEM LTD. Pg 10

### Acetophenone

KRISHNA SOLVECHEM LTD. Pg 10

### Acetyl H. Acid

AAKAR DYES AND CHEMICALS Pg 12

### Acid Green-16

AAKAR DYES AND CHEMICALS Pg 12

### Acid Orange 156

Mavani Chemicals Pvt. Ltd. Pg 11

### Acid Orange Liquid

HIREN ENTERPRISES Pg 13

### Acid Yellow 36

Mavani Chemicals Pvt. Ltd. Pg 11

### Acid Yellow 219

Mavani Chemicals Pvt. Ltd. Pg 11

### Acrylonitrile

KRISHNA SOLVECHEM LTD. Pg 10

### Alizarine Red

Mavani Chemicals Pvt. Ltd. Pg 11

### Alpha Methyl Styrene

KRISHNA SOLVECHEM LTD. Pg 10

### Amido G. Acid to Gamma Acid

AAKAR DYES AND CHEMICALS Pg 12

### Amino ISO J Acid

AAKAR DYES AND CHEMICALS Pg 12

### Ammonium Bi Carbonate

KRISHNA SOLVECHEM LTD. Pg 10

### Aniline Oil

KRISHNA SOLVECHEM LTD. Pg 10

## B

### Basic Auramine Liquid

HIREN ENTERPRISES Pg 13

### Basic Bismark Brown R

HIREN ENTERPRISES Pg 13

### Basic Bismark Brown Y

HIREN ENTERPRISES Pg 13

### Basic Brown R Liquid

HIREN ENTERPRISES Pg 13

### Basic Brown Y Liquid

HIREN ENTERPRISES Pg 13

### Basic Crysodine R (Powder)

HIREN ENTERPRISES Pg 13

### Basic Crysodine Y Base (Solvent Orange 3)

HIREN ENTERPRISES Pg 13

### Basic Crysodine Y (Crystal & Powder)

HIREN ENTERPRISES Pg 13

### Basic Crysodine Y Liquid Pg 13

### Benzoic Acid

KRISHNA SOLVECHEM LTD. Pg 10

Mavani Chemicals Pvt. Ltd. Pg 11

### Beta Naphthol to G. Salt

AAKAR DYES AND CHEMICALS Pg 12

### B.H.K. Acid

Mavani Chemicals Pvt. Ltd. Pg 11

### BIS AZO

Mavani Chemicals Pvt. Ltd. Pg 11

### Bitumen / Pet Coke / DMPAT

KRISHNA SOLVECHEM LTD. Pg 10

### Blue TL

Mavani Chemicals Pvt. Ltd. Pg 11

### BM Alizarine Red

Mavani Chemicals Pvt. Ltd. Pg 11

### Bordo 3B

Mavani Chemicals Pvt. Ltd. Pg 11

### Brassinolids

Chemilife Enterprises Pg 9

### Butanol

KRISHNA SOLVECHEM LTD. Pg 10

## C

### C-IX

KRISHNA SOLVECHEM LTD. Pg 10

### Cyclohexane

KRISHNA SOLVECHEM LTD. Pg 10

## D

### DEG

KRISHNA SOLVECHEM LTD. Pg 10

### Dehydro Thio Based

Mavani Chemicals Pvt. Ltd. Pg 11

### Di Ethyl Amine

KRISHNA SOLVECHEM LTD. Pg 10

### Di Ethylene Tri Amine (DETA)

KRISHNA SOLVECHEM LTD. Pg 10

### Di Iso Propyl Ether

KRISHNA SOLVECHEM LTD. Pg 10

### Di Methyl Acetamide

KRISHNA SOLVECHEM LTD. Pg 10

### Di Methyl Amine

KRISHNA SOLVECHEM LTD. Pg 10

### Di Methyl Amine HCl

KRISHNA SOLVECHEM LTD. Pg 10

### Dimethyl Carbonate

KRISHNA SOLVECHEM LTD. Pg 10

### Di Methyl Formamide

KRISHNA SOLVECHEM LTD. Pg 10

### Di Methyl Sulphoxide

KRISHNA SOLVECHEM LTD. Pg 10

### DIPA

KRISHNA SOLVECHEM LTD. Pg 10

### Direct Orange 118 Liquid

HIREN ENTERPRISES Pg 13

### Direct Red 81 Liquid

HIREN ENTERPRISES Pg 13

### Direct Violet Base

Mavani Chemicals Pvt. Ltd. Pg 11

### Direct Yellow - 09

Mavani Chemicals Pvt. Ltd. Pg 11

### Direct Yellow 11 Liquid

HIREN ENTERPRISES Pg 13

### Direct Yellow 87 Base

Mavani Chemicals Pvt. Ltd. Pg 11

### Di Sodium Phosphate

KRISHNA SOLVECHEM LTD. Pg 10



## E

Edible Refine Salt

SKC INDUSTRIES LLP Pg 14

Epichlorohydrine

KRISHNA SOLVECHEM LTD. Pg 10

Ethylene Diamine (EDA)

KRISHNA SOLVECHEM LTD. Pg 10

Ethylene Dichloride

KRISHNA SOLVECHEM LTD. Pg 10

## F

Formic Acid

KRISHNA SOLVECHEM LTD. Pg 10

## G

Gibberlic Acid

Chemilife Enterprises Pg 9

Green - BL

Mavani Chemicals Pvt. Ltd. Pg 11

G Salt to Amido G Acid

AAKAR DYES AND CHEMICALS Pg 12

## H

H Acid

AAKAR DYES AND CHEMICALS Pg 12

Heptanes

KRISHNA SOLVECHEM LTD. Pg 10

Hexane

KRISHNA SOLVECHEM LTD. Pg 10

Basic Brown Y Liquid Pg 13

HIREN ENTERPRISES Pg 13

Basic Brown Y Liquid Pg 13

Hydrazine Hydrate 80%

KRISHNA SOLVECHEM LTD. Pg 10

Hydrogen Peroxide 50%

KRISHNA SOLVECHEM LTD. Pg 10

Hydroxylamine Sulphate

KRISHNA SOLVECHEM LTD. Pg 10

## I

Indole Acetic Acid

Chemilife Enterprises Pg 9

Indole Butyric Acid

Chemilife Enterprises Pg 9

Industrial Salt

SKC INDUSTRIES LLP Pg 14

Isobutanol

KRISHNA SOLVECHEM LTD. Pg 10

Isophorone

KRISHNA SOLVECHEM LTD. Pg 10

Isopropanol

KRISHNA SOLVECHEM LTD. Pg 10

Isopropyl Alcohol

KRISHNA SOLVECHEM LTD. Pg 10

## J

J Acid

AAKAR DYES AND CHEMICALS Pg 12

## M

Mamas Acid

Mavani Chemicals Pvt. Ltd. Pg 11

MCB

KRISHNA SOLVECHEM LTD. Pg 10

MDC

KRISHNA SOLVECHEM LTD. Pg 10

Methanol

KRISHNA SOLVECHEM LTD. Pg 10

Methylene Di Chloride

KRISHNA SOLVECHEM LTD. Pg 10

Methyl Ethyl Ketone (MEK)

KRISHNA SOLVECHEM LTD. Pg 10

Methyl Iodide

KRISHNA SOLVECHEM LTD. Pg 10

Methyl Iso Butyl Ketone (MIBK)

KRISHNA SOLVECHEM LTD. Pg 10

Methyl Metha Acrylate

KRISHNA SOLVECHEM LTD. Pg 10

Mono Chlorobenzene

KRISHNA SOLVECHEM LTD. Pg 10

Mono Ethyl Amine 70%

KRISHNA SOLVECHEM LTD. Pg 10

Mono Isopropyl Amine 70%

KRISHNA SOLVECHEM LTD. Pg 10

Mono Methyl Amine

KRISHNA SOLVECHEM LTD. Pg 10

Mono Sodium Phosphate

KRISHNA SOLVECHEM LTD. Pg 10

Morpholine

KRISHNA SOLVECHEM LTD. Pg 10

## N

Naphthalene 2:7 Disulfonic Acid

AAKAR DYES AND CHEMICALS Pg 12

N-Butanol

KRISHNA SOLVECHEM LTD. Pg 10

Nitazine Yellow

Mavani Chemicals Pvt. Ltd. Pg 11

N-Methyl-2-Pyrrolidone

KRISHNA SOLVECHEM LTD. Pg 10

## O

Orange ARL

Mavani Chemicals Pvt. Ltd. Pg 11

Orange Base

Mavani Chemicals Pvt. Ltd. Pg 11

Ortho Nitro Toluene

KRISHNA SOLVECHEM LTD. Pg 10

Ortho Xylene

KRISHNA SOLVECHEM LTD. Pg 10

## P

Papas Acid

Mavani Chemicals Pvt. Ltd. Pg 11

Paraformaldehyde

KRISHNA SOLVECHEM LTD. Pg 10

Para Nitro Toluene

KRISHNA SOLVECHEM LTD. Pg 10

PCI5

KRISHNA SOLVECHEM LTD. Pg 10

Peracetic Acid

Chemilife Enterprises Pg 9

PH

Mavani Chemicals Pvt. Ltd. Pg 11

Phenol

KRISHNA SOLVECHEM LTD. Pg 10

Phosgenated and Cyanuric Based

Mavani Chemicals Pvt. Ltd. Pg 11

Phosphate

KRISHNA SOLVECHEM LTD. Pg 10

Phosphoric Acid 85%

KRISHNA SOLVECHEM LTD. Pg 10

Piperazine 68%

KRISHNA SOLVECHEM LTD. Pg 10

Piperazine Anhydrous

KRISHNA SOLVECHEM LTD. Pg 10

Polyamines

KRISHNA SOLVECHEM LTD. Pg 10

Potassium Meta Bi Sulphite

KRISHNA SOLVECHEM LTD. Pg 10

Propylene Glycol

KRISHNA SOLVECHEM LTD. Pg 10

Pyridine

KRISHNA SOLVECHEM LTD. Pg 10

## Q

Quinizarine (1-4 Dihydroxy Anthraquinone

Mavani Chemicals Pvt. Ltd. Pg 11

## R

Raw Salt/Crystal/Coarse Salt

SKC INDUSTRIES LLP Pg 14

Red - 4G

Mavani Chemicals Pvt. Ltd. Pg 11

Red - HI

Mavani Chemicals Pvt. Ltd. Pg 11

## S

Salt Free Dyes

Mavani Chemicals Pvt. Ltd. Pg 11

Silver Peroxide



Chemilife Enterprises Pg 9  
 Sodium Acid Pyro Phosphate  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Sodium Benzoate  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Sodium Chloride NACL 99%  
 SKC INDUSTRIES LLP Pg 14  
 Sodium Hexa Meta  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Sodium Meta Bi Sulphate  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Sodium Metal  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Sodium Methoxide  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Sodium Nitrate  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Sodium Nitrite  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Sodium Percarbonate  
 Chemilife Enterprises Pg 9  
 Sodium Sulphate  
 SKC INDUSTRIES LLP Pg 14  
 Sodium Sulphide Yellow Flakes  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Sodium Sulphite  
 KRISHNA SOLVECHEM LTD. Pg 10

Sodium Tri Poly  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Stain Indicator  
 Mavani Chemicals Pvt. Ltd. Pg 11  
 S. Titan Yellow  
 Mavani Chemicals Pvt. Ltd. Pg 11  
 Styrene Monomer  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Sulfuryl Chloride  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Sulphur Dioxide  
 KRISHNA SOLVECHEM LTD. Pg 10

**T**

Tablet Salt  
 SKC INDUSTRIES LLP Pg 14  
 Tertiary Butanol  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Tetra Hydro Furan  
 KRISHNA SOLVECHEM LTD. Pg 10  
 T G Urea  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Thionyl Chloride  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Tobias Acid  
 AAKAR DYES AND CHEMICALS Pg 12  
 Toluene  
 KRISHNA SOLVECHEM LTD. Pg 10

Tri Ethyl Amine  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Tri Ethyl Ortho Formate  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Tri Mathyl Amine  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Tri-n-Butyl Amine  
 KRISHNA SOLVECHEM LTD. Pg 10  
 TRIS AZO  
 Mavani Chemicals Pvt. Ltd. Pg 11  
 Tri Sodium Phosphate  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Tropsium Chloride  
 KRISHNA SOLVECHEM LTD. Pg 10

**V**

Vinyl Acetate Monomer  
 KRISHNA SOLVECHEM LTD. Pg 10  
 Violet 4B  
 Mavani Chemicals Pvt. Ltd. Pg 11

**Y**

Yellow ARL  
 Mavani Chemicals Pvt. Ltd. Pg 11  
 Yellow GL  
 Mavani Chemicals Pvt. Ltd. Pg 11  
 Yellow RL Base  
 Mavani Chemicals Pvt. Ltd. Pg 11

## Mitsubishi Chemical Licenses Patent for Biomass-based Polyester to Kuraray Group

Mitsubishi Chemical Corporation (MCC; Head office: Chiyoda-ku, Tokyo; President: Masayuki Waga) hereby announces that it recently signed a licensing agreement with Kuraray Co., Ltd. (Head office: Chuo-ku, Tokyo; President: Hitoshi Kawahara) and Kuraray trading Co., Ltd. (Head office: Osaka-city, Osaka; President: Takeshi Yamada) for the related patent including MCC-owned basic patent (JP4380654) on a biomass-based polyester.

The products covered by this license include polyethylene terephthalate (PET), which use renewable biomass resources, and are expected to have a variety of industrial applications such as the manufacture of fibers. In contrast to conven-

tional, petroleum-derived products, this biomass-based polyester can be expected to facilitate the reduction of greenhouse gas emissions.

The patent owned by MCC is a substance patent for a biomass-based, high-quality polyester and is the basic patent required for business operations engaged in the manufacture or sale of this material. MCC has already registered the patent not only in Japan but also in the US, EU, and China.

**MCC owns many other patents for biomass-based products. To foster the**

**adoption of biomass-derived materials that impose lower environmental loads, MCC will not only continue to expand its own business but also promote collaborative efforts and licensing arrangements with other companies, thereby contributing to the creation of a sustainable carbon society.**

Source : Mitsubishi Chemical



positive impact on climate change & sustainable development.

- Increase on an average 8% crop yield with improved quality of farm produce with lower input cost.
- Substantial increase in farmers' income.
- Will significantly bring down the logistics and warehousing cost

1st June, 2021: Mumbai: World's 1st

Nano Urea Liquid is introduced for the farmers across the world by Indian Farmers Fertiliser Cooperative Limited (IFFCO) in the presence of its RGB members in its 50th annual general body meeting held online-offline mode in India. This is an inspiration taken from the call of the Prime Minister of India for reducing the use of Urea in the soil. The Nano Urea Liquid is indigenously developed after many years of dedicated and sincere research of IFFCO's Scientists and Engineers through a proprietary technology developed at Nano Biotechnology Research Centre, Kalol, in the tune of 'Atmanirbhar Bharat' and 'Atmanirbhar Krishi'. IFFCO Nano Urea Liquid found



effective and efficient for plant nutrition. This increases the production with improved nutritional quality. It will also give a huge positive impact on the quality of underground water, very significant reduction in the global warming with an impact on climate change and sustainable development.

### **Translation of Nano Urea Liquid for farmers use will boost balanced nutrition**

**program by reducing the excess use of Urea application in the**

**soil. The excess urea causes an environmental pollution, harm soil health, and making plant more susceptible for disease & insect infestation, delayed maturity of the crop & production loss. Nano Urea Liquid make the crops stronger, healthy and protect them**

### **from lodging effect.**

IFFCO Nano Urea Liquid is easy on the pocket of farmer and will be effective in increasing farmers income. A 500 ml bottle of IFFCO Nano Urea Liquid will replace at least one bag of conventional Urea. Hence, it will reduce the input cost to farmer. Due to the small size of Nano Urea Liquid, its bottle can be kept in the pocket and will significantly bring down the cost of logistics and warehousing also.

IFFCO Nano Urea Liquid is now included in Fertiliser Control Order (FCO, 1985) on the basis of multi- location and multi-crop trials undertaken under National Agriculture Research System (NARS) at 20 ICAR research institutes, State Agriculture Universities and KVKs on 43 crops. To test its efficacy around 11,000 farmer field trials (FFT's) were undertaken on more than 94 crops across India. In the recent countrywide trials conducted on 94 crops, an average 8% increase in yield has been witnessed.

IFFCO Nano Urea Liquid is developed to replace conventional Urea and it can curtail the requirement of the same by at least 50%. It contains 40,000 ppm of Nitrogen in 500 ml bottle which is equivalent to the impact of nitrogen nutrient provided by one bag of conventional Urea.

Source : Chemical Market

## **Chinaplas 2021 BASF Empowers the Future with Sustainable and Customer-Driven Solutions in China**

- Showcasing innovative solutions, broadened product portfolio and enhanced innovation capabilities
- BASF to power its first plants of the BASF Zhanjiang Verbund Site with

100% renewable energy

- Advanced, efficient e-commerce platforms with digital innovations support customers and contribute to BASF's growth in China

- Virtual booth and tech talk broadcasts are available at BASF booth (Hall 17, Booth no.: 17E101)

**S**henzhen, China – April 13, 2021 – Building on significant business growth and strong operational perfor-



## EVENTS AND CONFERENCES

### CPHI MIDDLE EAST & AFRICA

**Date:** September 26-28, 2021

**City:** Abu Dhabi

**Country:** United Arab Emirates

**Website:** <https://ilikeevents.com/event/10576-cphi-middle-east-&-africa>

**Description:** CPhI Middle East & Africa will be held 26 to 28 Sep 2021 in Abu Dhabi, United Arab Emirates. CPhI Middle East & Africa will be the region's most comprehensive pharma gathering. Together, with its co-located events ICSE, P-MEC, InnoPack and FDE, will host over 4,000 key visiting pharma suppliers and buyers. With a wide range of exhibitors from all across the entire pharma supply chain, don't miss out on your chance to participate at this unrivalled meeting point in Abu Dhabi. CPhI Middle East & Africa: Your partner for innovation and networking in pharma This year, the strength of the CPhI brand will be bringing to the Middle East & Africa region; shining a spotlight on innovation, market access, and successful partnership stories within pharmaceutical development from across the region. Taking place in the heart of the UAE, from 3-5 September 2018, at ADNEC in Abu Dhabi, CPhI Middle East & Africa is set to be the leading business platform for the pharmaceutical manufacturing industry. With its co-located events ICSE, P-MEC, InnoPack and FDE, it will bring together Pharma professionals from the whole value chain to learn, network and do business. CPhI Middle East & Africa is an event and I like events..

### ASIA PACIFIC COATINGS SHOW

**Date:** September 01-03 2021

**City:** Jakarta Convention Center, Jakarta

**Country:** Indonesia

**Website:** <https://10times.com/coatings-show>

**Description:** Asia Pacific Coatings Show is the leading coatings event in South East Asia and the Pacific Rim for raw materials suppliers and equipment manufacturers for the coatings industry. See the very latest innovations, solutions, products and services from the world leaders in the coatings industry at the Asia Pacific Coatings Show. It will be promoting the latest paint and coatings technologies for the region's environmental, manufacturing and industrial needs and provides a fantastic opportunity to network with both local and international exhibitors.

### CHEMUK 2021 EXPO

**Date:** Sept 15-16, 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. 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.



## EVENTS AND CONFERENCES

### MIDDLE EAST COATINGS SHOW

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

**City:** Dubai World Trade Centre

**Country:** Dubai

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

**Description:** With more than 27 years in the industry, the Middle East Coatings Show has established itself as the only trade event dedicated to the coatings industry in the Middle East. For three days, the trade exhibition facilitates serious business and networking opportunities for the coatings community. The event creates the perfect environment for manufacturers, raw materials suppliers, distributors, buyers and technical specialists like formulators from the coatings industry to meet face-to-face and do business. That's not all, the event offers the opportunity to gather insight on the latest processes, exchange ideas with industry leaders and build a strong network in the Middle East.

### PAINT ISTANBUL TURKCOAT

**Date:** Sept 09-11, 2021

**City:** Istanbul Expo Center, Istanbul Fuar Merkezi, CNR Expo

**Country:** Istanbul

**Website:** <https://www.eventseye.com/fairs/f-paint-istanbul-turkcoat-17142-1.html>

**Description:** Paintistanbul & Turkcoat, which was organized together for the first time in 2016 and exceeded the number of exhibitors and visitors reached in previous years with record participation, continues on its way with the support it receives from the sector and the cooperation of Paint Industrialists Association (BOSAD) and Artkim Fair Organization.

The 8th International Paint, Paint Raw Materials, Construction Chemicals and Adhesive Raw Materials, Laboratory and Production Equipment Fair Paintistanbul & Turkcoat, between 9-11 September 2021, in the halls 9, 10, 11 and 12 (Main Foyer) of Istanbul Expo Center. Preparing to host the Raw Materials Industry once again.

### CPHI NORTH AMERICA

**Date:** August 10-12, 2021

**City:** PA, USA Pennsylvania Convention Center, Halls CDE

**Country:** Philadelphia

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

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

*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*



mance in 2020 in the Greater China market, BASF today presents a slew of innovative solutions, including a broadened product portfolio after its acquisition of the Solvay polyamide business, as well as its investment project progress including the purchase of renewable electricity for the first plants of the BASF Zhanjiang Verbund site under the new Renewable Electricity Marketization Policy. BASF's new engineering plastics compounding plant at the BASF Zhanjiang Verbund site is also on track to be the first production plant to come on-stream at the site in 2022.

"BASF's presence at CHINAPLAS has consistently demonstrated how we support our customers to develop innovative solutions that meet the demanding needs of daily living as well as evolving trends and regulations. Turning ideas into ideal solutions is central to BASF's purpose - creating chemistry for a sustainable future," said Andy Postlethwaite, Senior Vice President of Performance Materials Asia Pacific, BASF. "With our upcoming new plants in the BASF Verbund site in Zhanjiang, as well as combined product portfolio and capabilities with Solvay, we are now better positioned to develop advanced material solutions, backed by new technologies and technical expertise for advanced material and parts testing. These capabilities will help us speed up the time-to-market, give a quicker response to customers in Asia Pacific, and meet the strong demand for our innovative material solutions – mainly driven by the automotive, 5G, and electrical & electronic sectors."

### Innovating for sustainability

BASF is also innovating for sustainability and bringing to market more sustainable solutions, in conjunction with BASF's net zero 2050 roadmap announced in March. As part of its efforts to offer customers a portfolio of products with lower carbon footprints and enable their decarbonization, the Product Carbon Footprint (PCF) of BASF's

Performance Materials products is being calculated and validated by products types in 2021.

BASF is also working on future possibilities where it can make a positive impact by rethinking, reducing, reusing and recycling plastic. At CHINAPLAS 2021, BASF showcases co-created products that demonstrate this. The trunk floor co-creation for instance, made with recycled PU waste using BASF's PU binder Elastan® CC 6521, is a prime example of how plastics can be recycled effectively. The cold storage, laptop backpack, and autonomous wireless charger co-creations exemplify the impact of improving material and energy efficiency.

- The cold storage co-creation is produced with a new pentane B1 Elastopir® system which provides extra-high temperature stability and has lower Global Warming Potential (GWP).
- The laptop backpack, made with BASF's Haptex®, an ECO PASSPORT OEKOTEX® certified material, enables production efficiency as no organic solvents are used.
- The autonomous wireless charger is made with advanced material solutions robust enough to house sophisticated components and sensors combining 5G, IoT, and AI capabilities, as well as durable enough for the outdoors. As the charger is made of high-performance plastics instead of metal, it is lighter in weight and consumes less energy, enabling the charger's energy-efficient operation.

### e-Commerce provides a new impetus for growth in China

Despite the challenging business environment brought by the COVID-19 pandemic, BASF showed strength and resilience as its sales in Greater China reached around €8.5 billion in 2020 (2019: €7.3 billion). "With our strength and resilience, we are confident of keep-

ing the momentum in 2021 by working closely with our customers to meet the country's need for high-quality and sustainable products," said Dr. Zheng Daqing, Senior Vice President, Business & Market Development Greater China, BASF.

Investing in digital solutions opens new markets for BASF. BASF teams up with Alibaba to co-create the consumer-to-manufacturer (C2M) business model in the chemical industry and bring its diversified portfolio to Alibaba's B2B e-commerce platform, 1688.com.

"We are expecting a growing e-commerce presence with more sustainable products and solutions," Zheng added. Over the past three years, BASF has introduced many Accelerator products – products of superior sustainability contributions - on Alibaba's B2C marketplaces. Co-created with BASF's customers, these include products such as Hexamoll® DINCH, Glucopon®, and Infiner®.

At CHINAPLAS 2021, BASF added a plastic additive — Irgastab® IS 6300 L, an antioxidant that provides processing improvements, excellent physical property stability, and colour stability on its 1688.com flagship store. With a long history and expertise in providing stable plastic additives, BASF also stressed the role of plastic additives in the Circular Economy. Plastic additives are an essential tool to establish plastic circularity and prevent the downgrading of recycled plastic material.

CHINAPLAS 2021 will take place as a hybrid of a virtual and physical event from April 13 – 16, and BASF will present a series of tech talk broadcasts.

Source : Chemical Market



# BASF Secures 100 Percentage Renewable Electricity for the First Plants of its Zhanjiang Verbund Site

- BASF and China Resources Power made the first deal under the new renewable energy trading rules in Guangdong province
- First plants to produce engineering plastics and thermoplastic polyurethanes with minimized carbon footprint

Guangzhou, China – June 22, 2021 – Today, BASF and China Resources Power made the first deal to purchase renewable electricity through Guangdong Power Exchange Center in Guangdong Province, China. BASF secures 100% renewable electricity for its first plants at the Zhanjiang Verbund site under the pilot “Guangdong Renewable Energy Trading Rules” published this April. The first plants will produce engineering plastics and thermoplastic polyurethanes (TPU) to serve the increasing needs of various growth industries in the southern China market and throughout Asia.

**“This significant milestone was achieved thanks to the strong support from the government authorities as well as to the joint efforts from BASF and our partner,”** said Martin Jung, President of BASF’s Performance Materials division. **“With 100% renewable electricity supply for our plants, the first batch of ‘Made in Zhanjiang’ products will be delivered with minimized carbon footprints to the market, for the benefit of**

## **our customers and the community.”**

On April 21, 2021, Guangdong Power Exchange Center issued the new pilot Renewable Energy Trading Rules. And today, as the first deal under the rules, BASF successfully purchased renewable electricity from China Resources Power for its first plants of Zhanjiang Verbund site, whereby China Resources Power will establish dedicated renewable electricity sources to supply the renewable electricity for BASF.

“This is a landmark initiative to open up a new green energy business model. It helps enterprises like BASF maximize the use of renewable energy. We are proud to be the first company to purchase renewable energy under the new rules,” added Klaus Welsch, President, Mega Projects Asia, BASF. “Our new Verbund site in Zhanjiang will contin-



ue to improve the share of renewable energy in our future phases to be a role model for sustainable production. This is part of BASF’s goal of climate neutrality by 2050, and will also contribute to China’s carbon reduction ambition.”

**“Since the signing of the**

**agreement between China Resources Power and BASF, the two parties have been working closely together to promote the introduction of this new trading mechanism and provide new growth momentum for the market. China Resources Power will take this cooperation as a base, hand in hand with our partners to actively create and promote this new green energy business model, hence contributing to the green, high-quality development for the economy in China,”** said Tang Yong, President of China Resources Power.

Announced in July 2018 and officially commenced in November 2019, BASF Zhanjiang Verbund site will be the company’s largest investment with around US\$10 billion upon completion and would be operated under the sole responsibility of BASF. The site would ultimately be the third-largest BASF site worldwide, following Ludwigshafen, Germany, and Antwerp, Belgium. The whole Verbund site is planned to be completed by 2030. The first plants will be operational by 2022.

Source : Chemical Market



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