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Insights on the Sugar Alcohol Global Market to 2027 - Opportunity Analysis and Industry Forecasts -Pg26



DKSH Acquires Sacoa In Australia Further Expanding Its Performance Materials Business -Pg45

Braskem Develops World's First Renewable Polyethylene Wax -Pg61



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Food &
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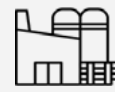
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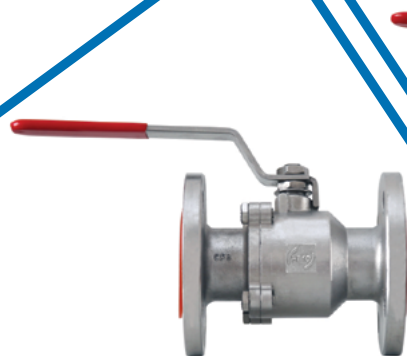


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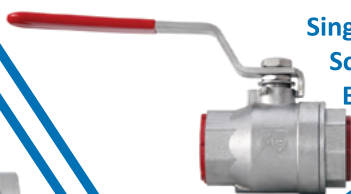
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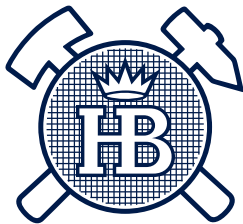
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Contact

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WASHINGTON, May 17, 2021 — Did you know that the calorie labels on foods are

only required to be accurate within 20%? That's a pretty wide margin, but it exists for a reason: Calories are complicated: <https://youtu.be/ahvE5kuWcps>.



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**CHEMICAL
MARKET**

CphI - Informa Group

No	Exhibitions	Date	Place
1	CPhI North America	Aug 10-12, 2021	Philadelphia
2	CPhI Worldwide Germany	Nov 9-11, 2021	Fiera Milano, Milan, Italy
3	CPhI Middle East & Africa	Sept 26-28, 2021	Riyadh, Saudi Arabia
4	CPhI China- Virtual CPhI	Dec 16-18, 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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Phenolic resins	1000 Kgs	
Details : We are interested to buy Strontium Carbonate Powder Imported and phenolic resins Mr. Sunairaja. T Sivakasi, Tamil Nadu, India Email : pyrocheme@gmail.com Tel.: 9443164779		

Product Name	Qty	Grade
861229-15-4	1000 Tonnes	Industrial
Details : This is an additive for waterproofing membrane and purity more than 90% Mr. David Ding Singapore Email : dingzhusong1972@yahoo.com 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 Mr. Abhay Hingarh Mumbai, Maharashtra, India Email : jovikaenterprise@gmail.com Tel.: 09821011976		

Product Name	Qty	Grade
N-Ethyl-2-Pyrrolidone NEP	8000 Kgs	Technical
Details : Vandit Shah Pune, Mh Mobile: 9327238521 Email : vandit09@gmail.com		

Product Name	Qty	Grade
861229-15-4	200 Tonnes	None
Details : For construction material Mr. David China Email : dzs1972@hotmail.com Tel.: 0086-13584039977		

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

Product Name	Qty	Grade
1,2-Bis(2-aminophe-noxy)ethane - HS Code 29222990	500 Kgs	Not Applicable
Napthol AS-PH - HS Code - 32041921	500 Kgs	Not Applicable
Fast Red KD Base (HS Code - 29225014)	2 Tonnes	Not Applicable
Napthol AS-LC (HS Code - 32041929)	500 Kgs	Not Applicable
Dimethylsuccinylo Succinate (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. PRAVIN IYER Baroda, Gujarat, India Mobile: 9898507767 Email : pravin.iyer@atpigments.com		

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 Gagandeep Singh Amritsar Mobile: 99158-44307 Email : vetsafepharma15@gmail.com		

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

Details : Required Rate with MSDS and Other Certificate
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 Switchboard.: +91-989-283-1911

Product Name	Qty	Grade
ISO Propyl Alcohol	1 Tonnes	Industrial

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

Product Name	Qty	Grade
Borax	1 Tonnes	Industrial

Details : Need Borax. Distributor. Please contact via email/phone
Sandip Agarwal
 Kolkata, West Bengal, India
 E-mail : sandip@sbpl.co.in Mobile : +91-983-100-1334

Product Name	Qty	Grade
Fast Red RL Base	500 Kgs	Industrial

Details : Required the above item. Please reply via email/phone.
Vibhu Vaidya - Krupalu Dye Stuff Industries
 Email : krupalu@ymail.com
 Mobile : 9408554819

Product Name	Qty	Grade
Acrylic Acid	500 Kg	Industrial

Details : Please contact via email or phone.
Janardhan Raju - Katyayani Polymers
 Email : katyayanipolymers@gmail.com
 Mobile: +91-995-990-0375

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

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

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

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

Product Name	Qty	Grade
Pharma Intermediates	-	

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

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

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

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

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

Product Name	Qty	Grade
Sofosbuvir and Daclatasvir		

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



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

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

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

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

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

Product Name	Qty	Grade
Toulene	5000 Kgs	Industrial
Details : Kindly arrange to send us quotations Santosh Taksale Pune, MH Mobile: 9028843799 Email: santosh.taksale@manikchandpackaging.com		

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

Product Name	Qty	Grade
Naphthalene Powder	-	
Para Di Chloro Benzene Powder		
Camphor Powder		
Details : Xavi Gabhri Pharma (Manufacturer) E-mail : fragrancevalley1992@gmail.com Mobile : 9847687718		

Product Name	Qty	Grade
Resorcinol	-	
Triethyl amine		
Paraformaldehyde		
Formaldehyde		
Details : Ashok Patil (Manufacturer) DD Patil Chemicals, Amalner Dist Jalgoan Email: ddchemicalsales@gmail.com Mobile: +91-735-022-6099		

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

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



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

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

Jitendra Bhalgat

Ahmednagar, Maharashtra, India

Email : jbhalgat11@gmail.com

Mobile : 9422220871

Product Name	Qty	Grade
Sodium Hypochlorite	500 Kgs	Industrial

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

Rajshree Varshney

Mumbai, Mh

Mobile: + 917520945076

Email : rajshree.varshney@gmail.com

Product Name	Qty	Grade
Tera Hydrofurin (thf)	-	

Details : We are Trader and Deal in api and solvents

Rajiv Kapoor

Global Enterprises (Traders)

Mobile: 8866506582

Email : globalenterprisespurchase@gmail.com

Product Name	Qty	Grade
Modified Starch	1 Tonnes	Technical

Details : for our won purpose

Purushotham M

Salem, Tamil Nadu, India

Mobile: +919443326055

Email : sreestarch@gmail.com

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

Details : for our won purpose

Chetan Lakhpati

Thane, Maharashtra, India

Mobile: 9920337763 Email : clakhpati@gmail.com



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

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

Kishor at Moglix

Noida

Mobile: 96503-64721

Email : Kishor.tarafdar@moglix.com

Product Name	Qty	Grade
IPA		

Details : Bulk requirement

Amit Dave

Amit International (Distributor)

Email : amitintl@zoho.com

Mobile : 9821323563

Product Name	Qty	Grade
Fast Red KD Base (HS Code - 29225014)	2 t every month	

Napthol AS-LC (HS Code -
32041929)

Napthol ASIRG (HS Code -
29242990)

Dimethylsuccinyllo Succinate (DMSS) - HS Code
29181990

Napthol AS - HS Code
29242990

Napthol AS-PH - HS Code -
32041921

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

2,4,6 Trichloro Aniline 100 Kgs Chemical

Details :

Pravin Iyer

AT Pigments (Manufacturer)

Email : pravin.iyer@atpigments.com

Mobile : 9898507767

Product Name	Qty	Grade
Silica Sand	500 Tonnes	Industrial

Details :

Mr. Haroun Mousa

Dammam

Mobile: 00966566663350

Email : haroonmousa69@gmail.com



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Product Name	Qty	Grade
Titanium dioxide		
Details : P. DO. SHAH SEMITONE INDIA (Manufacturer) Email : prakash@pcf.co.in Mobile : 918850655380		

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click on the email link to send an email*

Product Name	Qty	Grade
Glacial Acetic Acid	30 Kgs	
Details : Please send us the below information of this product with COA / spec If you have any query then feel free to contact me directly. Thank you in advance, and look forward to receive the requested information from you. Abhishek Jha (Executive Purchase) Abhishek Jha Valsad, Gujarat, India Email : pur5@triveniinterchem.com		

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Product Name	Qty	Grade
Barium Titanate		
Calcium Titanate		
Lead Titanate		
Lithium Titanate		
Details : P. DO. SHAH SEMITONE INDIA (Manufacturer) Email : prakash@pcf.co.in Mobile : 918850655380		

Product Name	Qty	Grade
Industrial Label Gum 38051010		
Details : Janardhan Katyayani Polymers (Manufacturer) Email : katyayanipolymers@gmail.com Mobile: +91-995-990-0375		

Product Name	Qty	Grade
Purified Terephthalic Acid	-	Trader
Details : Rakesh Bachani Royal Chemicals (India) Email : info@royalchemindia.com Mobile : +91-922-150-3305		

Product Name	Qty	Grade
Toluene c9 and solvents	-	Trader
Details : We are Trader and Deal in api and solvents Rajiv Kapoor Global Enterprises (Traders) Mobile: 8866506582 Email : globalenterprisespurchase@gmail.com		

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

Product Name	Qty	Grade
Atul Direct Fast Orange GR		
Atul Direct Violet Extra		
Atul Direct Fast Scarlet 4BS		
Atul Acid Orange II		
Atul Crocein Scarlet Moo		
Amarthol Asph		
Solophenyl Fast Grey Rln		
Ciba Typewriter Brand Direct Green		
Solophenyl Blue BL 200		
Chemicals		
Mitesh Modi Contact : 9830090208, 9339459367 Email : amritdyes1952@gmail.com		

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

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

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

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

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

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

Product Name	Qty	Grade
Ammonium Sulphate caprolactum grade		

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

Product Name	Qty	Grade
Sodium Bi Sulphate	-	-

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

Product Name	Qty	Grade
Plastic Bottles		
Carboys		
M.S. Capsules		
Bungs		

All Types of Sealing Machines

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

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

Details :
Jitendrabhai
Mobile : +91-9904063662



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

Details : We want Indian manufacturers for pigment intermediates listed above. we are into manufacturing organic pigments.

Pravin Iyer

AT Pigments (Manufacturer)

Email : pravin.iyer@atpigments.com

Mobile : 9898507767

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

Details :

R P Agrawal

Texochem Industries (Manufacturer)

Email : info@texochem.com

Mobile : 919820217042

Product Name	Qty	Grade
Glycerine	12 Tons	Manufacturer

Details :

Tajinder Goyal

Softex Surgial

Email : Tajinder.goyal@gmail.com

Ph: +91-980-555-6667

Product Name	Qty	Grade
Pharma Intermediates	-	

Details :

Arnish

Chemox Chemopharma Industries (Manufacturer)

Email : vekariya.arnish@ymail.com

Mobile: +91-990-908-3070

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

Details :

Jagdish Thakral

Shri Hariram Export Pvt. Ltd. (Manufacturer)

Email: jthakral@kailashgroup.com

Phone : 07122734041

Product Name	Qty	Grade
Polyacrylamide		
Hydrochloric Acid		
Industrial Safety Mask		

Details : Bulk requirement

Amit Dave

Amit International (Distributor)

Email : amitintl@zoho.com

Mobile : 9821323563

Product Name	Qty	Grade
Hydrazine Hydrate 80%		

Details : we have stock of our own imports

Anamika soni

Punjab Chemicals & Crop Protection Ltd
(Manufacturer)

Email : anamika@punjabchemicals.com

Mobile : 9867724805

Product Name	Qty	Grade
EDTA Tetra Sodium Liquid	-	

Details :

Parthiv

Shiv Chem Industries (Manufacturer)

Email : chelateshivchem@yahoo.co.in

Tel.: 079-2282-3447

Product Name	Qty	Grade
Diffubenzurone	250 Kg 500 Kg	

Details :

CHANDRESH HAPANI

ANIMED (Distributor)

Email : animed6@yahoo.co.in

Mobile : 9830175616



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Product Name	Qty	Grade
Sulphur Powder		
Sulphur Roll		
Details : we are manufacturers of Sulphur powder and Sulphur roll Adesh J.K.Industries, Deoband (Trader) Email : jkind.dbd@gmail.com Mobile : 9412113914		

Product Name	Qty	Grade
Mercuric Chloride		
Details : Surendra Agrawal Ankur Chemicals (Manufacturer) Email : ankurchemical@yahoo.com Mobile : 09352500959		

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

Product Name	Qty	Grade
Solvent Dyes (solvent yellow 82 & orange 62)		
Details : Prakash Patel NAVDURGA DYES & CHEMICAL (Manufacturer) E-mail : navdurgadyes@gmail.com Mobile : 9022673905		

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

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

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

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



Contents

Purchase Enquiries	...16
Sales Enquiries	...20
Editorial	
The new beginnings, again!.....	25
Research Reports Abstracts	
Insights on the Sugar Alcohol Global Market to 2027 - Opportunity Analysis and Industry Forecasts.....	26
EU to Emerge as a Leader in Pyrolysis as the Rest of the World Catches up on Mechanical Recycling.....	26
FTC's Invicta® Technology Awarded AFS New Product of the Year.27	
News Round Up	
Whats A Calorie Video	12
DuPont Honored with Responsible Care® Award for Outstanding COVID-19 Response Efforts by the American Chemistry Council...28	
Reducing Blue Light with a new type of LED that wont keep you up all night.....	28
Beiersdorf Selects Sabic Certified Renewable PP for New Nivea Packaging.....	39
The new generation: Safe and stable baby bottles.....	42
LyondellBasell starts commercial production of polymers using raw material derived from plastic waste.....	43
How a Sars-Cov-2 Variant Sacrifices Tight Binding for Antibody Evasion	44
DKSH Acquires Sacoa In Australia Further Expanding Its Performance Materials Business.....	45
Reliable Coloration of Ultra-High-Performance Concretes Thanks to Bayferrox Pigments from Lanxess.....	46
BASF collaborates with industry partners to explore sustainable refinish coating solutions responding to new emission standards	47
Maire Tecnimont Group supports the supply of 60 Oxygen Concentrators for Covid Relief in Mumbai and other Indian Cities.....	50

Clariant Chemicals Full Year Profit Grew By 69 Percentage Over Previous Year	51
DKSH Expands Distribution Agreement with Stepan in India and South Korea	52
KBLS HYPN System an Intelligent Water Supply Solution for Serving the Changing Water Demand At Constant Pressure.....	53
Visit : https://chemicalmarket.net/search for more product listing.....	54
New Microporous 3D Printing Material Offers A New Kind of Design Freedom	56
CAO Group, Inc. Releases World's First 94% Alcohol Hand Sanitizer- ZaPro™ Hand Sanitizer.....	56
Zhongding Group for Great Wall Motors Made with BASF's Ultramid® Polyamide 6	57
Evonik and SI Coatings Develop Water-Based Primer for Polyamide Coatings	60
LVMH Perfumes & Cosmetics Chooses Eastman Cristal™ Renew to Begin Elimination of Virgin plastic.....	60
Braskem Develops World's First Renewable Polyethylene Wax.....	61

IEWS AND STATEMENTS ...40

EVENTS AND CONFERENCES ...58

Free Service Subscribers - Sub. Today ...64

Market Prices

Chemical Market Price.....	48
Product List	54

News Snippets

Drug & Pharma News	29
Chemical Technology	31
New Products	33
Mergers & Acquisitions	35
International News	37

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CHEMICAL MARKET

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

The new beginnings, again!

Things are gradually beginning to open up. The second wave caused a lot of damage to a lot of industries as it hurt the auto industry the most along with FMCG sales. We all hope that there shouldn't be a third wave; however precautions need to be taken to prevent another lockdown. A city in the US is almost there to get herd immunity but I always wonder if such a thing like herd immunity exists! Not just the US has the highest vaccination rates in the world, the city of San Francisco has been having the lowest number of cases on a daily basis with 79% of the population received at least one dose according to the San Francisco health department data. It is encouraging news irrespective of whether it is herd immunity or vaccination or a mix of both, there are other cities in the US which have shown positive signs of lower cases. Apart from that the US government and the G7 nations have decided to roll out 1 billion vaccination doses to the world's poorer countries to fight the pandemic.

Today, I want to highlight an issue or may be an opportunity which can help increase the presence of the Indian chemical industry. For the past few years, we had seen an increase in dominance of manufacturing from China. With complete disregard to environment, things were moving at an extremely fast pace and China had been the lead exporter for most of the companies around the world. With the global financial crisis that happened in 2008, we saw the dominance increased further as most of the companies were not able to come to terms with China's cheap labour, worst emission standards and high costs of its own manufacturing plants prevented these companies to flourish. However,

the things changed recently due to the pandemic and more and more companies stopped importing from China. We saw a major shift of things which has made other countries and companies give priority to local manufacturing and decrease its reliance on China imports.

This is a good thing and local firms have seen a major shift in its consumption from within the country and these manufacturing companies are not just working on economies of scale but also planning to export their surplus products as other countries too wants to decrease their reliance on China. This fact is highly evident in the recent stock prices surges of the chemical companies in India and around the world!

This is true not just for commodity chemicals but also specialized chemicals. Although the difference between the two is not very clear, it is a general understanding that commodity chemicals are high in volume and available or sold in bulk and specialty chemicals are low volume, highly margin products sold to niche segments. Specialty chemicals are based on research and have a potential to generate more revenue and margins than commodity chemicals producers. You can yourself check the difference between the prices of stocks and their revenues in Jan 2020 (before the pandemic) and the prices and revenues now.

As more companies manufacturing has increased, revenue increases and two things have to align with the chemical industry. One is environment and another is safety. We do hope, we follow the global environment standards to prevent any environmental catastrophe

and follow safety protocols to prevent lost from fire, hazards and other human induced calamities. We will have more articles related to environmental issues and safety in the chemical industry in the upcoming months.

There is yet another update from our IT and web development team. We have revamped our website and home page to make it more user friendly and intuitive for our visitors. We have one of the highest number of hits on our website since the last 1 year. Our leads platform has gained traction and is one of the leading portal of enquiries for buying and selling in the chemical industry. If you have not registered then go ahead and signup today. You can make your company profile and upload products for free. Charges are only if you get leads or enquiries.

Also, we would like to invite any research companies, academic institutions or manufacturing companies to submit an article or research paper which will be beneficial to the chemical industry as a whole. If you are looking to find a specialized person to work in the chemical industry we will help you find one, specially engineers with chemical engineering and PHD's background to come help you in improving the process or development of new and improved products.

Rest assured, if you follow the protocols we all will be fine and the pandemic will be gone before we even know it and things will be back to normal. That's the hope and good wishes I have for this month.

- Rajiv Parikh



Insights on the Sugar Alcohol Global Market to 2027 - Opportunity Analysis and Industry Forecasts

Sugar alcohol is considered safe for human consumption, owing to its purity (lack of additives). Purity level, concentration, and grade of the alcohol depend on its end use. It is derived from various sources, including sugarcane, sugar beet, molasses, grains, fruits, and others. The global sugar alcohol market was valued at \$3,360 million in 2019, and is projected to reach \$4,800.4 million by 2027, registering a CAGR of 5.9% from 2021 to 2027. Contrary to what the name may suggest, a sugar alcohol is neither a sugar nor an alcoholic beverage, they are white, water-soluble solids that occur naturally or are produced industrially from sugars. Owing to their sweetening and texturizing properties, sugar alcohols have numerous applications across various industries.

Application of reduced sugar, sugar-free, and low-calorie diets has provided a means to reduce obesity and diabetes. Moreover, owing to rise in epidemic of obesity and diabetes, the demand for sugar alcohols as low-calorie sweeteners has thereby gained momentum. Furthermore, consumer inclination toward a healthier lifestyle has created focus on

low-calorie food products and sugar alternatives such as polyols. In addition, the application of polyols (sugar alcohols) in the pharmaceutical industry has risen exponentially. Rise in consumption of nutraceutical among consumers in the form of functional foods, dietary supplements, and functional beverages boosts the growth of the sugar alcohol market. This is attributed to the fact that polyols are used in numerous pharmaceutical and nutraceutical products, owing to their coating, sweetening, emollient, bulking, anti-crystallizing, and stabilizing properties. However, the high production costs of sugar alcohol as compared to sugar, can be expected to hamper the growth of the market.

On the contrary, manufacturers can explore the opportunities in the Asia-Pacific region since consumers are investing more in food and nutraceutical products, that will add value to their choice of living a healthy lifestyle. And hence, healthier food options are anticipated to gain higher traction in the coming years. According to the global sugar alcohol market report, the market is segmented on the basis of type,

form, application, and region. On the basis of type, the market is categorized into sorbitol, xylitol, mannitol, maltitol, isomalt, and others. By form, it is classified into powder & crystal and liquid & syrup. Depending on application, it is distributed into food & beverages, pharmaceuticals, cosmetics & personal care, and others. Region wise, the market is studied across North America, Europe, Asia-Pacific, and LAMEA.

The key players operating in the global sugar alcohol market include Cargill Incorporated, Spectrum Chemical Manufacturing Corp., Ingredion Incorporated, Archer Daniels Midland Company, Roquette Freres SA, Mitsubishi Shoji Foodtech Co. Ltd, Tate & Lyle PLC Atlantic Chemicals Trading GmbH, Associated British Foods plc (SPI Pharma), and DuPont.

Read the full report : <https://www.researchandmarkets.com/r/5g1vxm>

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EU to Emerge as a Leader in Pyrolysis as the Rest of the World Catches up on Mechanical Recycling

BOSTON, May 13, 2021 /PRNews-wire/ -- A combination of negative consumer sentiment, regulation, and a global focus on sustainability has combined to push the issue of plastics sustainability to the fore. Future projections of a circular economy emphasize that a combination of recycled and bio-based resources will serve as a feedstock for

our plastic needs. A new analysis from Lux Research, a leading provider of tech-enabled research and innovation advisory services, highlights the state of these emerging technologies today and how these technologies must grow to fulfill a circular economy.

Lux's new report, "The Sustainable Plas-

tics Roadmap: Recycling, Bioplastics, and Alternatives," forecasts the adoption of conventional and advanced recycling, bio-based plastics, and alternative materials and quantifies the impact of bans and other regulations to predict the future of sustainable plastics. Furthermore, the report specifies the regional implications of the most likely scenario



for the future of sustainable plastics.

"Our likely case presents a mixed outlook for the future of plastics," explains Anthony Schiavo, Research Director at Lux Research and lead author of the report. "Certainly, major strides are made in both plastic waste reduction and the substitution of fossil-based resources with more sustainable alternatives; both approaches will triple in volume in the next decade. Still, the plastics industry has a long way to go: Around 285 million tons of plastic waste will not be recycled in 2030, and there will still be major pain points like polypropylene lacking a sustainable solution."

Lux's likely case scenario for the state of sustainable plastics in 2030 highlights regional differences in policy and infrastructure. The U.S. will dramatically expand its mechanical recycling footprint for polyester terephthalate (PET) and high-density polyethylene as brands

respond to consumer demands and government mandates to increase recycling; it will catch up with the EU in PET recycling capacity by 2030. However, pyrolysis will likely fail to make an impact in the U.S. due to poor economics, despite the support of the chemicals industry. Low tipping fees and oil prices in the U.S. mean pyrolysis is unlikely to be profitable. Lux does not expect that a strong enough regulatory environment will emerge to change this outlook.

While the U.S. catches up on mechanical recycling, the EU will emerge as a leader in pyrolysis, building around 8 million tons of capacity by 2030. This rollout is strongly dependent on a favorable regulatory landscape, however. Without clear recognition of pyrolysis as a form of recycling at the EU level, rollout will suffer. Both China and Japan will ramp up pyrolysis capacity as well, building 6.8 million and 3.8 million tons of capacity, respectively, by 2030. Fuels,

rather than plastics, will be the main use case for pyrolysis oil in this region. China will maintain its position as the world leader in mechanical recycling, while Japan's mechanical recycling capacity will only grow marginally, reflecting its far more mature initial state.

The rest of the world will expand on mechanical recycling of PET and HDPE, as it's cheap to build, profitable, simple, proven, and can be built at both small and large scales. There will be a substantial expansion of recycling globally, with India, Indonesia, and Brazil leading the way as these economies continue to grow.

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

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

FTC's Invicta® Technology Awarded AFS New Product of the Year

HOUSTON, May 13, 2021 /PRNews-wire/ -- Filtration Technology Corporation's (FTC) Invicta® technology has been awarded 2020 New Product of the Year by the American Filtration and Separations Society (AFS) during their annual conference, FiltCon 2021

As described in the conference, Invicta® technology is a novel trapezoidal-shaped cartridge filter element design that leverages increased effective surface area inside a filter vessel resulting in increased capacity and extend filter life. Invicta's unique design is a revolutionary advancement of the 60-year-old cylindrical filter model that the industry has been stuck on for decades.

"Our whole team at FTC is deeply honored that AFS has recognized our Invicta® technology with this award. We think

very highly of AFS, and it really means something special to be recognized considering their efforts to spotlight those that contribute to the industry. AFS members contribute exciting new innovations to filtration and separations every year," said Chris Wallace, FTC Vice President of Technology. "Since its release in 2019, Invicta® has changed industry thinking and the industrial filtration market with it."

AFS members collaborate and innovate to ensure clean air and water, safe foods and beverages, pure and effective drug therapies and medical devices, smaller and more powerful personal electronic devices, as well as reliable and efficient transportation platforms, such as trains, boats, and planes.

Designed and tested in FTC's state-of-

the-art research facility in Houston, Invicta® is at the cutting edge of filtration and separation technology. The revolutionary technology reflects the company's focus on delivering high-quality, reliable, and value-driven solutions to the market.

Since 1987, FTC has been dedicated to driving the filtration and separation industry forward. They consistently develop products and solutions that challenge the industry and competition time after time, even while the industry continues to evolve and their clients' needs diversify. Visit www.ftc-houston.com.

Read the full report : <http://www.ftc-houston.com>.

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



DuPont Honored with Responsible Care® Award for Outstanding COVID-19 Response Efforts by the American Chemistry Council

WILMINGTON, Del., April 26, 2021 – DuPont (NYSE: DD) today announced it has been named a 2021 Responsible Care® awardee by the American Chemistry Council (ACC) for Outstanding COVID-19 Response Efforts. The ACC also recognized the company with Responsible Care® awards for Energy Efficiency and Facility Safety.

“It’s humbling to receive this highly-coveted recognition from the ACC,” said Daryl Roberts, DuPont Chief Operations and Engineering Officer. “It’s also a testament of our team’s abilities to remain agile and push the limits of what’s possible to protect our people, our communities and our environment, while advancing our 2030 Sustainability Goals. Thank you to the ACC for recognizing DuPont this year.”

The ACC recognized DuPont at its virtual 2021 Responsible Care® & Sustainability Conference & Expo.

Outstanding COVID-19 Response Efforts Award

Through the implementation of the #TyvekTogether program, DuPont collaborated with industry partners, to supply more than 100 million Tyvek® garments to support frontline responders via garment production in 12 countries. DuPont sites also mobilized to manufacture and donate 44,000 liters of hand sanitizer to local communities as well as contributions of food, personal protective equipment, and many other donations.

Facility Safety Awards

The ACC presents these awards to member companies with excellence in employee health and safety performance. In total, 31 DuPont sites received facility safety awards in the Excellence, Honor, & Achievement categories for their performance in preventing employee and contractor injuries.

Energy Efficiency Awards

The ACC presents these awards to recognize member companies with com-

mendable achievements in improving energy efficiency and/or reducing greenhouse gas or other environmental impacts. This year, DuPont was recognized for the following site and business efforts:

- Washington Works, W.Va., site: Acid Control project
- DuPont Electronics & Industrial: Business achieves Energy and Greenhouse Gas Goals
- Experimental Station, Del., site: Building E336 Lighting Upgrade
- Parlin, N.J., site: Thermal Insulation and Steam project

Responsible Care awardees qualify based on exemplary performance and are selected by a committee of internal and external experts, according to ACC. For more information about ACC Responsible Care®, [click here](#).

Source : DuPont

Reducing Blue Light with a new type of LED that wont keep you up all night

To be more energy efficient, many people have replaced their incandescent lights with light-emitting diode (LED) bulbs. However, those currently on the market emit a lot of blue light, which has been linked to eye troubles and sleep disturbances. Now, researchers reporting in ACS Applied Materials & Interfaces have developed a prototype

LED that reduces — instead of masks — the blue component, while also making colors appear just as they do in natural sunlight.

LED light bulbs are popular because of their low energy consumption, long lifespan and ability to turn on and off quickly. Inside the bulb, an LED chip

converts electrical current into high-energy light, including invisible ultraviolet (UV), violet or blue wavelengths. A cap that is placed on the chip contains multiple phosphors — solid luminescent compounds that convert high-energy light into lower-energy visible wave-

Continued On Page 39



TORAY DEVELOPS BIOCHIP FOR HIGH-PERFORMANCE MULTI-ITEM ALLERGY TESTING

Tokyo, Japan, April 26, 2021 – Toray Industries, Inc., announced today that it has developed an allergy testing biochip (see Glossary note 1) that can simultaneously measure multiple allergen-specific immunoglobulin E (IgE) antibodies (see Glossary note 2) from trace amounts of blood. This breakthrough should help reduce stress on children and others whose blood is difficult to draw and enhance the accuracy of allergy diagnostics. Toray aims to undertake large-scale verifications of the specimens of allergy sufferers and swiftly apply for in-vitro diagnostic certification. Food, pollen, and other allergies afflict half of Japan's population. Incidence rates are rising, particularly among infants and young adults. Infants often have multiple allergies. It is common in medicine to identify such ailments by using in vitro diagnostic products that measure allergen-specific IgE antibody levels in the blood. An issue with simultaneously measuring allergen-specific IgE antibodies from small blood samples to alleviate stress has been that proteins, cells, and other contaminants in the blood impede accurate measurements.

Toray was able to attain high precision from measurements with small samples by combining the microarray technology of 3D-Gene®, a highly sensitive DNA chip that can simultaneously detect multiple genes, and a low-fouling polymer technology to prevent blood component adhesion that the company created in developing artificial kidneys for hemodialysis patients. In-house verification testing confirmed that Toray's

product, which simultaneously measures multiple allergy items from 20 microliters of blood, has a quantitative correlation exceeding 95% with existing in-vitro diagnostic products that measure single items

Toray pursues R&D in socially transformative innovative materials by leveraging its core synthetic organic and polymer chemistry technologies and its biotechnology and nanotechnology capabilities. The company will push ahead with its efforts in keeping with its corporate philosophy of contributing to society by creating new values with innovative ideas, technologies, and products.

Source : Toray

SOLVAY AND CARBON22™ PARTNER ON CREED™ CANNULATED SCREWS FOR ORTHOPEDICS

Alpharetta, Ga., May 18, 2021 -- Solvay's Zeniva® polyetheretherketone (PEEK) resin was chosen by Carbon22™, a GLW, Inc. company, for its new Creed™ Cannulated Screw System for foot and ankle surgery.

This advanced new screw system recently received 510(k) clearance from the U.S. Food and Drug Administration (FDA).

To create the new system's ortholucent, plastic-metal hybrid composite, Solvay's implant-grade radiolucent Zeniva® PEEK resin is overmolded onto a titanium core prior to final processing. This

high-performance material solution allows the screw to be seen with X-ray or computed tomography (CT) scanning while enabling the surgeon to accurately assess anatomical details near and behind the implant site without visual distortion or artifacts.

The new Creed™ Cannulated screws are produced using unique manufacturing technology from Carbon22™. This groundbreaking process helps control costs by reducing material waste, compared to traditional titanium screws, which generate significant and expensive scrap during machining. Additionally, the Carbon22™ hybrid enables a more-aggressive cutting tip which cannot be realized with all-PEEK screw designs.

"We worked closely with Carbon22™ to achieve strong adhesion to titanium, which is not an inherent property of PEEK," said Anna Maria Bertasa, Healthcare Global Marketing Manager for Solvay Specialty Polymers. "Solvay's broad, deep technical expertise and advanced material technologies are what set us apart from our competition and enabled us to help create the innovative Creed™ system. We welcome new challenges that address the unique individual needs of our customers to give them a competitive advantage and help them succeed."



While all-titanium screws are opaque to X-rays, and imaging of all-PEEK screws is affected by their diameter, the Creed™ hybrid composite screws allow X-rays to pass through to the bone.

These new screws generate an outline that greatly enhances visualization of bony structures. Surgeons can use this capability to confirm screw placement during surgical procedures, check positioning post-operatively and determine the status of the healing process at follow-up appointments. The ability to image screw placement gives surgeons greater confidence and can help them achieve better patient outcomes.

"Solvay is a recognized industry leader for implantable PEEK," said Vadim Gurevich, chief executive officer, Carbone22. "Their team provided exceptional materials expertise and engineering capabilities that were instrumental in the development of our new Creed system. Together, we are actively engaged in new development projects that promise to further drive the development of next-generation orthopedic devices."

Source : Solvay

LEUCADIA PHARMACEUTICALS LAUNCHES CALCITONIN SALMON INJECTION

CARLSBAD, Calif., May 20, 2021 / CPNewswire/ -- Leucadia Pharmaceuticals, a U.S. leader in generic injectables and the commercial arm of CustomPharm, Inc., announced the launch of its latest FDA-approved generic, Calcitonin Salmon Injection, USP, Synthetic. The

injection is therapeutically equivalent to MIACALCIN®[1] and is indicated for the early treatment of hypercalcemic emergencies when a rapid decrease in serum calcium is required. Calcitonin Salmon Injection is also used to treat osteoporosis in postmenopausal women and to treat Paget's disease.

It is AP rated, bar coded, does not contain natural rubber latex and is provided as a sterile solution for subcutaneous or intramuscular injection.

"This is Leucadia's fourth FDA approval for a first generic injectable in less than two years," said Dr. William Larkins, Chief Executive Officer of Leucadia Pharmaceuticals. "Calcitonin Salmon Injection, USP once again demonstrates Leucadia's commitment to the development and launch of critically needed, lower cost therapies in the generic injectables market."

Leucadia Pharmaceuticals' Calcitonin Salmon Injection, USP, Synthetic FDA approval includes a Competitive Generic Therapy ("CGT") designation. Leucadia is the first approved applicant for CGT designation and is eligible for 180 days of market exclusivity which begins with the commercial marketing of the product.

Leucadia's first-and-only FDA-approved products also include the novel generic to the antineoplastic agent VALSTAR®[2] (val-rubicin) Sterile Solution for Intravesical Instillation which is indicated for patients whose CIS bladder cancer does not respond to Bacillus Calmette-Guerin treatment and who cannot have surgery to remove the bladder and Sodium Tetra-

decyl Sulfate (STS) Injection generic which is therapeutically equivalent to SOTRADECOL®[3] and is used to treat small varicose veins of the lower legs.

Among the company's other recent product additions are Acetaminophen Injection, 1000 mg/100 mL (10 mg/mL), an FDA-approved generic that is therapeutically equivalent to OFIRMEV®[4], indicated for the management of mild to moderate pain, management of moderate to severe pain with adjunctive opioid analgesics and reduction of fever, Icatibant Injection, an FDA-approved generic used to treat hereditary angioedema (HAE) attacks of the throat (laryngeal attack) and Dihydroergotamine Mesylate Nasal Spray, which is therapeutically equivalent to MIGRANAL®[5] and used for acute treatment of migraine headaches with or without aura.

Source : PR Newswire

SANDOZ ANNOUNCES PLANS TO FURTHER STRENGTHEN ITS ANTIBIOTICS MANUFACTURING SETUP IN EUROPE

Basel, May 18, 2021 — Sandoz, a Novartis division, announces plans to further strengthen its European antibiotics manufacturing network by further expanding production capabilities in Kundl, Austria and in Palafolls, Spain. By modernizing and simplifying its manufacturing setup, Sandoz will improve its ability to consistently deliver high-quality medicines to patients, while remaining cost-competitive on the global market. In line with plans announced with the Austrian government



in July 2020, Sandoz confirms that in a first step it will proceed to invest more than €100 million to introduce new manufacturing technology for the production of oral amoxicillin, an active pharmaceutical ingredient (API) for its leading penicillin product. This investment will allow Sandoz to leverage its position in Kundl as the hub and center of the only major end-to-end antibiotics supply chain in Europe, covering all production steps from API to Finished Dosage Forms (FDF) for many leading antibiotics.

In addition to the investment in Kundl, Sandoz announces plans for an expansion of its Palafolls site in Spain, planning to invest around €50 million in new production technology and increased capacity for the production of sterile penicillin APIs and sterile API mixtures.

As part of this network modernization plan, Sandoz will phase out the current production of oral APIs at the Les Franqueses site in Spain, which it plans to close in 2024. Sterile API production is planned to transfer from Kundl to the new facility at Palafolls in 2025. Sandoz is committed to its people and will offer full support to its associates who might be impacted.

Sandoz CEO Richard Saynor said: “Antibiotics are the backbone of modern healthcare and a key strategic pillar of our business. Despite a temporary drop in demand due to the pandemic, we remain as confident as ever in the mid- to long-term prospects for this segment, which meets a significant quantity of the global disease burden. This investment, which comes shortly after we announced plans to ac-

quire GSK’s global cephalosporin antibiotics, confirms our commitment to securing the future of our leading global business”.

Giovanni Barbella, Head of Sandoz Technical Operations, said: “Our goal is to produce and supply high-quality antibiotics at a cost-competitive price to patients around the world. The important investments announced today will enable our world-class manufacturing network in Europe to meet future requirements”.

Sandoz is the global leader in generic antibiotics and operates the only vertically-integrated antibiotic network left in Europe, despite fierce competition from Asia.

Source : Novartis

CHEMICAL TECHNOLOGY

AIR PRODUCTS ACQUIRES REMAINING 50% STAKE IN GASIFICATION TECHNOLOGY JOINT VENTURE FROM CHINA SHENHUA COAL TO LIQUID AND CHEMICAL

Air Products (NYSE: APD) announced it has completed the acquisition of the remaining 50 percent equity stake in its gasification technology joint venture (JV) with China Shenhua Coal to Liquid and Chemical Co. Ltd., a subsidiary of China Energy Group. Financial terms of the transaction are not being disclosed.

Air Products acquired its initial 50 per-

cent equity stake in the JV as part of its acquisition of General Electric Company’s (“GE”) gasification business from GE Power in 2019.

This transaction further strengthens Air Products’ broader gasification technology portfolio and integrates technical and engineering resources in China.

“Our latest investment is another step to support our gasification growth strategy that addresses the world’s energy and environmental challenges. We continue to execute several megaprojects in China and around the world. The acquisition further strengthens our position to leverage our complete gasification tech-

nology portfolio to serve our customers,” said Seifi Ghasemi, chairman, president and chief executive officer at Air Products.

Air Products continues its leadership in gasification projects around the world. Last year, Air Products announced a US\$2 billion coal-to-methanol project located in Indonesia. The company is also executing a number of world-scale gasification projects including the Jiutai and Debang projects in China, as well as the Jazan project in Saudi Arabia.

Air Products has been successfully building, owning, and operating facilities under the “Sale of Gas” model for many decades. The company’s portfolio includes more than 40 years of gasification experience, extensive capabilities, industry-leading technologies, and operational expertise. Air Products Syn-gas Solutions™ offers complete turnkey



gasification complexes to convert a wide range of lower-value hydrocarbon feedstocks into synthesis gas for making higher value products and power.

Source : Air Product

EASTMAN INTRODUCES RENEW PLASTICIZERS FOR SUSTAINABILITY WITHOUT COMPROMISE

KINGSPORT, Tenn., May 11, 2021 — To meet growing consumer demand and corporate sustainability initiatives, Eastman is introducing three new plasticizers with certified recycled content.*

The plasticizers, which are drop-in replacements for existing products, offer the identical performance of Eastman's legacy products but with 20%–59% recycled content.*

The global specialty materials company now offers these new products at scale:

- Eastman 168™ Renew 20 non-phthalate plasticizer, which has market-leading performance and 20% certified recycled content* for use in end markets like roofing, wallpaper and flooring
- Eastman DOA Renew 20 plasticizer, which provides flexibility at low temperatures, especially in food contact applications, and features 20% certified recycled content*
- Eastman Triacetin Renew 59, which has 59% certified recycled content* for food packaging adhesives and food wrap film applications

For applications like food wrap film and packaging adhesives, these Eastman Re-

new plasticizers have food contact clearance from the U.S. FDA and the European FSA.

"Customers throughout the value chain want more sustainable products, and Eastman is committed to providing solutions," said Erwin Dijkman, Eastman's vice president and general manager of chemical intermediates. "These new plasticizers can be used as drop-in replacements for our legacy products with no need to change formulations or certifications. They also provide immediate, meaningful wins for companies working to meet aggressive sustainability goals."

Eastman will produce the plasticizers with its carbon renewal technology, one of two molecular recycling technologies that use hard-to-recycle mixed plastic waste as raw material, reduce consumption of fossil fuels, and have lower greenhouse gas emissions. The recycled content is achieved through a mass balance allocation process certified by ISCC (International Sustainability & Carbon Certification).

Henry Li will discuss Eastman's Renew plasticizer sustainable solutions May 11 at the PVC Conference by iOM3. Eastman is a sponsor of the conference, which runs May 10–12.

"Eastman is just getting started with sustainable plasticizers," said Li, market development manager of plasticizers technology. "We're creating a wide range of plasticizers that could contain even higher percentages of recycled content and an even lower carbon footprint to

meet the growing demand for sustainability."

Renew plasticizers are the latest in Eastman's expanding Renew line of products that also includes Eastman Cristal™ Renew copolyester, Eastman Tritan™ Renew copolyester and Naia™ Renew cellulosic fibers.

Source : Eastman

TORAY WINS 53RD JCIA TECHNOLOGY AWARD FOR DEVELOPING AND COMMERCIALIZING ANTITHROMBOGENIC ARTIFICIAL KIDNEY

Tokyo, Japan, May 24, 2021 – Toray Industries, Inc., received the 53rd JCIA Technology Award from the Japan Chemical Industry Association on May 21 for developing and commercializing an anti-thrombogenic artificial kidney. This is the sixth time for the company to win that award, the previous occasion being in 2016.

Toray drew on its core nanotechnology and computational chemistry capabilities to create this artificial kidney, a polysulfone membrane, in response to a growing need to enhance anti-thrombogenic performance in line with dialysis treatment advances.

The company developed the artificial kidney to efficiently treat chronic and acute renal failure, thereby improving patients' quality of life while reducing medical professional workloads. Toray looks to develop high value-added medical supplies that materialize its corporate philosophy of contributing to social progress by delivering new value while attaining sustainable growth.

Source : Toray



SOLVAY LAUNCHES AMODEL® SUPREME PPA FOR NEW E-MOBILITY APPLICATIONS

Alpharetta, Ga., April 29, 2021 -- Solvay introduces Amodel® Supreme PPA, a new line of high-performance polyphthalamide (PPA) compounds designed for demanding e-mobility and metal replacement applications.

As the leading innovator in PPA chemistry and the first to introduce PPA to the market, Solvay's Amodel® Supreme PPA brings a higher level of performance to systems requiring exceptional thermal, mechanical and electrical properties. Applications range from high-temperature automotive components used in electric drive units including e-motors, power electronics, housings for high-temperature electrical connectors, electric and electronic devices and telecommunication equipment components that need excellent heat resistance.

In addition, Solvay's Amodel® Supreme PPA offers stiffness and toughness to replace metal in more traditional and structural applications such as clutch cylinders, shift forks and body in white.

Solvay Amodel® PPA has a 25 year history of performance in a variety of under the hood applications that have been converted from metal to plastic. Solvay's new Amodel® Supreme features the PPA industry's highest glass transition temperature (Tg) of 165°C

which enables higher mechanical performance vs. traditional PA4T and PA6T based materials at elevated temperatures. There is also a greater Coefficient of Linear Thermal Expansion (CLTE) match to metals that allows for ease in designing overmolded components.

In addition to exceptional thermo-mechanical performance, Amodel® Supreme PPA features improved electrical properties, including volume resistivity and dielectric strength above 150°C. These materials also maintain critical electrical properties, like comparative tracking index (CTI), after exposure to high temperatures over time. Compounds were designed to ensure hydrolytic stability against new EV cooling fluids.

"Solvay continues to achieve new performance milestones for our Amodel® PPA family of technologies to meet our customers' increasingly stringent requirements," said Brian Baleno, Head of Marketing-Transportation at Solvay Specialty Polymers. "Industries from automotive to electronics to telecommunications are raising the bar for properties such as heat resistance, strength, stiffness and electrical performance. Now, with the launch of Amodel® Supreme PPA, we can meet or even surpass these high expectations and offer customers a new alternative to traditional metal and conventional polymers." The initial launch of Amodel® Supreme PPA includes six grades. They are divided into standard, structural and electrical products. These grades are available globally.

Source : Solvay

TWO COMPOUNDS CAN MAKE CHOCOLATE SMELL MUSTY AND MOLDY

Chocolate is a beloved treat, but sometimes the cocoa beans that go into bars and other sweets have unpleasant flavors or scents, making the final products taste bad. Surprisingly, only a few compounds associated with these stinky odors are known. Now, researchers reporting in ACS' Journal of



Agricultural and Food Chemistry have identified the two compounds that cause musty, moldy scents in cocoa — work that can help chocolatiers ensure the quality of their products.

Cocoa beans, when fermented correctly, have a pleasant smell with sweet and floral notes. But they can have an off-putting scent when fermentation goes wrong, or when storage conditions aren't quite right and microorganisms grow on them. If these beans make their way into the manufacturing process, the final chocolate can smell unpleasant, leading to consumer complaints and recalls. So, sensory professionals smell fermented cocoa beans before they are roasted, detecting any unwanted musty, moldy, smoky or mushroom-like odors. Even with this testing in place, spoiled beans can evade human noses and ruin batches of chocolate, so a more objec-



tive assessment is needed for quality control. In previous studies, researchers used molecular techniques to identify the compounds that contribute to undesirable smoky flavors, but a similar method has not clarified other volatile scent compounds. So, Martin Steinhaus and colleagues wanted to determine the principal compounds that cause musty and moldy odors in tainted cocoa beans.

The researchers identified 57 molecules that made up the scent profiles of both normal and musty/moldy smelling cocoa beans using gas chromatography in combination with olfactometry and mass spectrometry. Of these compounds, four had higher concentrations in off-smelling samples. Then, these four compounds were spiked into unscented cocoa butter, and the researchers conducted smell tests with 15-20 participants.

By comparing the results of these tests with the molecular content of nine samples of unpleasant fermented cocoa beans and cocoa liquors, the team determined that (-)-geosmin — associated with moldy and beetroot odors — and 3-methyl-1H-indole — associated with fecal and mothball odors — are the primary contributors to the musty and moldy scents of cocoa beans. Finally, they found that (-)-geosmin was mostly in the beans' shells, which are removed during processing, while 3-methyl-1H-indole was primarily in the bean nib that is manufactured into chocolate.

The researchers say that measuring the amount of these compounds with-in cocoa beans could be an objective way to detect off-putting scents and fla-

vors, keeping future batches of chocolate smelling sweet.

Source : Chemical Market

SHIN-ETSU CHEMICAL HAS DEVELOPED A NEW VOLATILE SILICONE FLUID FOR PERSONAL CARE

Shin-Etsu Chemical Co., Ltd. (Head Office: Tokyo; President: Yasuhiko Saitoh) has developed a new type of volatile silicone fluid, the "KF-4422."

Volatile silicone fluids are essential components that are being used in the development of diverse personal care products, including skin care, make-up and sunscreen products. This product will enhance the sensory feeling of users of various personal care products, at the same time, by combined use with silicone-based film formers, it can add a



high water- resistant property.

KF-4422, the newly developed product, is a high-purity volatile silicone fluid that was developed by replacing a part of a methyl

group with an ethyl group in the molecular structure of dimethyl silicone fluid (INCI name: dimethicone).
Because it possesses volatility, it provides a light and smooth sensory feel for end-users, which is a special feature of this silicone fluid, and its volatile rate is located in-between that of the existing KF-995 and KF-96L-2CS silicone fluids.

Furthermore, compared with existing products, the new product features superior solubility with such materials as hydrocarbons and UV absorbers. In the development of personal care products, when endeavoring to enhance sensory use, a delicate difference in feeling is sought after, and thus we expect that the development of this new product and its introduction on the market will lead to a strong positive customer response as a result of meeting their requests.

Shin-Etsu offers a very wide range of silicone products, including silicone fluids, silicone emulsions, silicone gels and silicone powders. Moreover, because they are multifunctional and excellent in safety, they have become essential cosmetic ingredients in the formulations of various personal care products with an emphasis on high functionality and high quality.

Taking advantage of Shin-Etsu Chemical's superior product quality and technological strengths as well as our system for detailed response to our customers' requests, going forward Shin-Etsu will continue to strive to meet the needs of the diversifying market.

Source : Shin-Etsu



TRAFIGURA AND BRASKEM COLLABORATE TO OFFSET CARBON IN THE CARGO OF NAPHTHA

Trafigura (Trafigura Group Pte Ltd), one of the world's leading independent commodity trading companies, and Braskem, the largest petrochemical company in the Americas and a world leader in the production of biopolymers, collaborated on what is believed to be the first shipment of naphtha with carbon offset¹. The cargo was shipped last week in Corpus Christi, Texas, and will be delivered by Trafigura to Braskem's facilities in the Port of Aratu, in Bahia.

The equivalent emissions of carbon dioxide, associated with the extraction of crude oil and its transportation by pipeline, the processing to produce naphtha and the maritime transport of the load of 325 thousand barrels, with carbon compensation, will be calculated based on the data collected by Trafigura . Emissions will be offset through a combination of efficiency measures, which reduce emissions and allow for high-quality carbon offsets.

Trafigura worked with the shipowner to minimize the actual emissions associat-

ed with transporting the cargo, including chartering the ship with the highest energy efficiency available at the time of fixing, and agreeing with the shipowner for a speed reduction. High-quality carbon offsets were obtained from nature-based projects located in Indonesia, which are independently verified by Verified Carbon Standard.

"Naphtha is a vital component for the plastics sector and this carbon offset load, the first of its kind, demonstrates the potential to reduce emissions from the upstream supply chain for non-combustible plastics. We believe this is a step important addition to the sector's efforts to minimize emissions," said Dmitri Croitor, Trafigura's Global Director of Naphtha and Condensate.

"Braskem is committed to a carbon neutral circular economy strategy, and this pilot is a step in that direction, contributing to offset part of the emissions in the value chain," said Hardi Schuck, director of Inputs, Chemicals and Global Chartering at Braskem . This announcement is in line with our efforts to continue to advance innovation and develop low-carbon solutions. "

Note: The term "carbon offset" indicates that the Seller and the Buyer have undertaken to reduce or offset the amount of equivalent carbon dioxide associated with their respective operated emissions (including the extraction, storage and transport of naphtha) through a combination of demonstrated emission reductions and carbon offsets verified by the Verified Carbon Standard.

Source : Braskem

SABIC COLLABORATES WITH NUDEC TO INTRODUCE ITS

CERTIFIED RENEWABLE POLYCARBONATE INTO BUILDING AND CONSTRUCTION APPLICATIONS

SABIC, a global leader in the chemical industry, today announced its collaboration with NUDEC, S. A., an industry leader in the manufacture of clear plastic sheets for numerous industries such as construction, personal and machinery protection. NUDEC, based in Barcelona, Spain, will be using SABIC's LEXAN™ polycarbonate (PC) resin based on certified renewable feedstock in several end applications for these industries.

SABIC's certified renewable polycarbonate is an engineering thermoplastic resin and is part of the company's TRUCIRCLE™ portfolio and services. Based on our cradle-to-gate peer-reviewed LCA study, use of SABIC's LEXAN™ polycarbonate resin can potentially result in reductions in carbon footprint of up to 61% and fossil depletion reduction of up to 35%.

"We are delighted to collaborate with NUDEC to introduce our certified renewable polycarbonate into the building and construction sector, helping to create applications that are made to last, and are produced in a more sustainable way" said Abdullah S. Al-Otaibi, ETP & Market Solution General Manager at SABIC. "Our certified renewable materials have a lower carbon footprint and are made to the same high specifications and properties as virgin products, whilst still acting as a drop-in solution. This is a great example of how we are committed to innovating and working with partners to change how plastic is made and used, by collaborating across the value chain to create a circular economy where we use our natural resources



wisely and responsibly.”

“NUDEC is the first in the plastic sheet industry to offer an alternative for our customers in order to keep up with the trend towards more sustainability in the development of polycarbonate sheets, said Joan Antoni Enrich, CEO at NUDEC. “Our vision focuses on sustainable development with great respect for the environment. To achieve this, our challenge is to increase our product range with solutions containing a certain percentage of raw materials coming from a renewable source, as well as the implementation of new norms and actions to help improve our environmental footprint.”

“By using SABIC’s LEXAN polycarbonate (PC) resin based on certified renewable feedstock in our polycarbonate sheet, our partnership with SABIC enables us to take firm steps towards more sustainable production, in line with our sustainability strategy and ambition,” concluded Enrich.

SABIC produces polycarbonate and blends based on renewable feedstock at its site in Cartagena, Spain. Last year, the site became accredited under the International Sustainability and Carbon Certification Plus (ISCC PLUS) scheme, enabling our products to be defined as certified renewable. The production process follows the mass balance approach, which helps to trace the flow

of materials along the supply chain, from the feedstock to the final product, following predefined and transparent



rules. NUDEC has also been ISCC certified, in order to give SABIC and NUDEC’s common customers a consistent proof of a sustainable supply chain.

SABIC’s Cartagena site is also set to become the world’s first of its kind to operate on 100% renewable power [by 2024] following a major project announced last year, further responding to customer and consumer demands for more sustainable solutions in an increasingly carbon-neutral world.

SABIC’s TRUCIRCLE portfolio and services for circular solutions span; design for recyclability, mechanically recycled products, certified circular products from feedstock recycling of used plastics and certified renewables products from bio-based feedstock.

Source : Sabic

ARKEMA EXPANDS BOSTIK’S BUSINESS IN THE US WITH THE ACQUISITION OF EDGE ADHESIVES TEXAS

Bostik expands its offerings in high performance adhesives in the United States with the planned acquisition of Edge Adhesives Texas, a complementary

asset in hot-melt adhesives and pressure sensitive adhesive tapes for residential construction. This project is in line with Arkema’s strategy of bolt-on acquisitions to develop greater breadth in adhesives and deliver new products to meet expanding demand.

Edge Adhesives Texas is a leading developer and manufacturer of innovative adhesive solutions used in residential buildings with annual sales of around US\$12 million. The company, which operates a plant in Fort Worth, Texas (US) and has approximately 50 employees, specializes in custom formulations in fast-growing easy-install window, door and roofing applications.

In addition to delivering strong technological, industrial and commercial synergies, the project will enable Bostik to offer its customers an extended range of value-added and sustainable solutions in hot-melt pressure sensitive adhesives.

This bolt-on acquisition is in line with Bostik’s growth strategy in high value-added adhesives and expands its presence in North America.

Source : Arkema



DUTCH PPE SOLUTIONS STARTS LARGE-SCALE PRODUCTION OF FILTER MATERIAL FOR MEDICAL FACEMASKS

production in record-time

The meltblown polypropylene manufacturing facility in Geleen was built in record-time. From idea, planning, construction, building and testing to large scale production took only months, three times faster than regular lead times. The first facemasks from Dutch PPE Solutions were delivered in January 2021, containing filter material from a non-Dutch supplier. From today, meltblown polypropylene filter material from Dutch PPE Solutions is also available to other customers in Europe.

DSM and VDL joined forces in September 2020 to meet the urgent need to diversify the global production and supply chains of personal protective equipment at scale by reducing dependency on a

small number of international sources. DSM and VDL invested several million euros in manufacturing equipment

to produce facemasks and in the new manufacturing facility for meltblown polypropylene. The joint venture employs dozens of people in its production locations in Geleen and Helmond, the Netherlands.

Dutch IIR facemask manufacturer MedProtex is Dutch PPE Solutions' first customer of meltblown polypropylene. Cyrille Depondt, CEO MedProtex says: "To establish a sustainable, transparent and futureproof production chain of personal protection equipment, it is crucial to have access to raw materials close to home. The opening of the factory for high-quality critical filter material in Geleen is a testimony to entrepre-

neurship and a proofpoint for making our Dutch and European infrastructure more resilient for future pandemics. At MedProtex we believe in short, sustainable chains and transparency. Dutch PPE Solutions delivers just that. That's why we decided to use their meltblown polypropylene filter material in our products. This powerful collaboration is Made in Holland and creates multiple value on economic, social and ecological level."

Pieter Wolters, Vice President DSM Innovation Business Building and Member of the Dutch PPE Solutions Board: "The initial goal between DSM and VDL was to help when it was most needed and immediate actions were necessary in the fight against COVID-19. We learned during the early months of the pandemic what the risks are of full dependency of overseas suppliers and that a partial capacity of local manufacturing will provide better health and safety for the future. We promised we would do something about it and now we deliver. With the Geleen-based meltblown polypropylene production facility and the facemask production lines in Helmond we secured a Western European supply of facemasks and critical facemask components. Thereby we provide robust and reliable high-quality personal protection equipment to the healthcare workers and the population."

Dutch PPE Solutions

Dutch PPE Solutions is a joint venture of VDL Groep and Koninklijke DSM that offers high-quality medical facemasks and filter material, entirely made in the Netherlands. The joint venture will help meet the urgent need to diversify the

Dutch PPE Solutions, the joint venture of Royal DSM and VDL Groep, starts with the production of virus filtering material for FFP2 and IIR facemasks in a newly built factory by DSM in Geleen, the Netherlands. Dutch PPE Solutions is the first to deliver professional facemasks with filter material that is made entirely on Dutch soil. With the production of the critical filter layer, meltblown polypropylene, in the Netherlands the joint venture makes Europe less dependent on supplies from overseas and ensures that professionals in healthcare and other sectors can always do their work safely.

The opening of the first production facility of meltblown polypropylene in the Netherlands creates greater resilience to surges in demand for medical facemasks and the underlying materials. The high-quality filter material is made from bio-based feedstock - used cooking oil - and the manufacturing machines run on renewable electricity. Dutch PPE Solutions' ambition is to produce the most sustainable filter material for FFP2 and IIR facemasks.

From idea to sustainable large-scale



global, large-scale production and supply chains of personal protective equipment and reduce dependency on a limited number of manufacturers. The initial priority will be healthcare, while production will be gradually expanded to include facemasks for professionals in other sectors such as public transport, schools and educational institutions and companies across Europe. Reliability, availability, quality and socially responsible pricing are a key strategy of the joint venture. www.dutchp-pesolutions.com

Source : DSM

YARA AND JERA PLAN TO COLLABORATE ON CLEAN AMMONIA TO DECARBONIZE POWER PRODUCTION IN JAPAN

Oslo, 11 May 2021: Yara International ASA, a leading global ammonia player and JERA Co., Inc, Japan's largest power generation company, have signed a Memorandum of Understanding to collaborate on the production, delivery and supply chain development for blue and green ammonia, to enable zero-emission thermal power generation in Japan.

Japan recently announced plans to introduce ammonia into the fuel mix for

thermal power generation, as part of its measures to cut CO₂ emissions and reach carbon neutrality by 2050. As part of its Green Growth Strategy, the government targets ammonia imports of 3 million tonnes by 2030.

"This ground-breaking collaboration aims to decarbonize JERA's power production and provide Yara with a footprint in the strategically important Japanese market. Building blue and green ammonia value chains is critical to enabling the hydrogen economy, and collaborating with a key player like JERA marks a milestone in leveraging Yara's global capabilities," says Svein Tore Holsether, President and Chief Executive Officer of Yara.

JERA Corporate Vice President Yukio Kani says: "We are pleased to conclude this MOU with Yara, a leading global ammonia producer, which shares our aspiration to develop a clean ammonia value chain. We believe that this cross-sector collaboration will not only expand business opportunities for both companies but also accelerate the transition to a decarbonized society."

Ammonia does not emit carbon dioxide during combustion and is seen as an effective future energy source. Blue ammonia is derived from a carbon capture and storage process (CCS), while green ammonia is produced carbon free by using hydrogen sourced from renewable energy as feedstock. The term clean ammonia comprises both blue and green ammonia.

Under the MoU, Yara and JERA are targeting collaboration in the following ar-

eas:

- Supply and development of new ammonia demand in Japan including power generation purpose
- Sequestration of already captured CO₂ (CCS) at Yara's ammonia plant in Pilbara, Australia, enabling the production and supply of blue ammonia to JERA
- New clean (blue and green) ammonia project development
- Optimization of ammonia logistics to Japan

JERA is the largest power generation company in Japan, producing about 30% of Japan's electricity. The Tokyo-based company is committed to establishing green fuel supply chains to achieve zero CO₂ emissions from its operations in Japan and overseas by 2050.

Yara is a world leader in ammonia, with long experience and leading positions within global ammonia production, logistics and trade. The Oslo-based company produces roughly 8.5 million tonnes of ammonia annually. Yara employs a fleet of 11 ammonia carriers, including 5 fully owned ships, and owns 18 marine ammonia terminals with 580 kt of storage capacity – enabling it to produce and deliver ammonia across the globe. Yara recently established a new Clean Ammonia unit to capture growth opportunities in emission-free fuel for shipping and power, carbon-free fertilizer and ammonia for industrial applications.

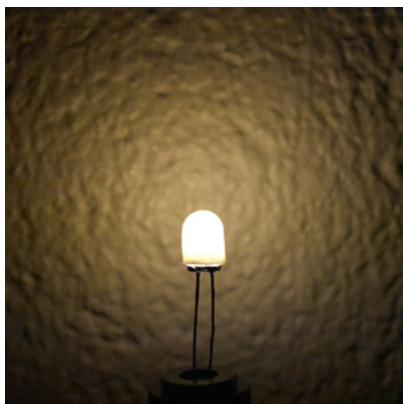
Source : Yara



Continued from page 28

lengths. Each phosphor emits a different color, and these colors combine to produce a broad-spectrum white light. Commercial LED bulbs use blue LEDs and yellow-emitting phosphors, which appear as a cold, bright white light similar to daylight. Continual exposure to these blue-tinted lights has been linked to cataract formation, and turning them on in the evening can disrupt the production of sleep-inducing hormones, such as melatonin, triggering insomnia and fatigue. To create a warmer white LED bulb for nighttime use, previous researchers added red-emitting phosphors, but this only masked the blue hue without getting rid of it. So, Jakoah Brgoch and Shruti Hariyani wanted to develop a phosphor that, when used in a violet LED device, would result in a warm white light while avoiding the problematic wavelength range.

As a proof of concept, the researchers identified and synthesized a new luminescent crystalline phosphor containing europium ((Na_{1.92}Eu_{0.04})MgPO₄F). In thermal stability tests, the phosphor's emission color was consistent between room temperature and the higher operating temperature (301 F) of commercial LED-based lighting. In long-term moisture experiments, the compound showed no change in the color or intensity of light produced. To see how the material might work in a light bulb, the researchers fabricated a prototype



device with a violet-light LED covered by a silicone cap containing their luminescent blue compound blended with red-emitting and green-emitting phosphors. It produced the desired bright warm white light while minimizing the intensity across blue wavelengths, unlike commercial LED light bulbs. The prototype's optical properties revealed the color of objects almost as well as natural sunlight, fulfilling the needs of indoor lighting, the researchers say, though they add that more work needs to be done before it is ready for everyday use.

Source : Chemical Market

Beiersdorf Selects Sabic Certified Renewable PP for New Nivea Packaging

SABIC, a global leader in the chemical industry, today announced that Beiersdorf will innovate the packaging of its world-leading 'NIVEA Naturally Good' range of face creams using SABIC's certified renewable polymers. SABIC's bio-based polypropylene (PP) resin, part of its TRUCIRCLE™ portfolio, will be used for producing the jars of Beiersdorf's NIVEA Naturally Good day and night face creams. The new NIVEA packaging

will be phased in at point-of-sale outlets worldwide from June 2021 onwards and make a major contribution to help Beiersdorf reduce its use of fossil-based virgin PP.

The new product is playing into Beiersdorf's ambitious Sustainable Packaging Targets 2025 to reduce fossil-based, virgin plastic for its cosmetic packaging products by 50 percent. The new

sustainable NIVEA jars pay into the Sustainability Agenda CARE BEYOND SKIN, by which the company is targeting a significant reduction of its carbon emissions and environmental footprint. The agenda has set three major packaging goals to be achieved by 2025 as compared to 2019: make all of the group's packaging 100 percent refillable, reusable or recyclable; increase the share of recycled materials in plastic packaging



VIEWS AND STATEMENTS



"Reaching the full potential of 5G networking requires next-generation electronics solutions such as flexible PCBs that can deliver higher performance in ever-smaller and thinner packaging, SABIC is supporting innovations in electronics with advanced material solutions like our new specialty dianhydride powder. Leveraging SABIC's deep manufacturing expertise, this high-purity monomer can help customers improve film properties to meet demands for higher speed and capacity in 5G networking infrastructure and endpoint devices."

- Brian Rice, senior business manager, Additives, SABIC.



"Close collaboration between material and machine manufacturers is essential to open up new 3D applications. The results of our test series are clear: INFINAM® PA 6005 P with its higher melting point of 215 °C can not only be excellently processed on Farsoon's ST252P and HT403P machines, but also recycled. We used our synergies to develop a market-ready system solution."

- Wolfgang Diekmann, Director Research, Development & Innovation Additive Manufacturing at Evonik.



"Unique to ULTRASIL® 4000 GR is its product design that combines very good dispersibility and a low surface area, and this is what makes the high filler levels possible. Despite its high filler quantity, this silica can easily be dispersed into the rubber compound. Even after short mixing processes, it is possible to create compact rubber batches with good sheet appearance."

- Bernhard Schäfer, Senior Vice President Rubber Silica at Evonik.



"We are partnering with Covestro to perfect these high-quality, low-solvent coatings for our classic Moleskine® notebook covers, Covestro's partially bio-based coating technology enables us to reduce our impact on the environment and improve our sustainability."

- Daniela Riccardi, the company's Chief Executive Officer.



"We are very excited about this joint solution, as we cannot process the materials ourselves for technical reasons. By recycling according to type at our partner's plant, the raw materials can be converted back into valuable products with similarly good properties as those characteristic of virgin materials. The recycling of materials makes it possible to use them again in other products. In this way, we save raw material resources and contribute to the focus on the circular economy."

- Lisa Ketelsen, Head of Thermoplastic Composites at Covestro.



VIEWS AND STATEMENTS



"Braskem has been producing bio-based plastic for over a decade. All the results achieved and the new products developed are the result of its dedication and investments in research and development to produce sustainable solutions. Bringing the renewable PE wax to the global market underscores our commitment to become a carbon neutral company by 2050."

- Gustavo Sergi, Director of Renewable Chemicals and Specialties at Braskem..



"The center supports both experienced formulators and those new to energy curing technology who are seeking state-of-the-art UV resin and photoinitiator systems expertise. It also brings together technologies and know-how to address energy curing challenges and develop innovative solutions to unlock new opportunities."

- Laurent Peyronneau, CEO Of Sartomer and VP of Arkema's Coating Solutions



"Our collaboration with Eastman marks a critical milestone towards progressively eliminating fossil-fuel-based plastics from our packaging. With our recently published LIFE 360 program, we made the decision that our packaging will contain zero plastic from virgin fossil resources in the years ahead."

- H       Valade, LVMH environmental development director"



"It was particularly important for us to offer a premium manufacturer like Safilo a sustainable polyamide whose properties differ in nothing from those of the TROGAMID® myCX they already use. We are working in many areas to make our products sustainable, but their quality must not suffer in the process. Premium lenses or high-quality visors for ski and snowboard goggles made of TROGAMID® myCX eCO stand for long durability and high safety, as well as excellent wearing comfort due to the low material weight."

- Viviane Papa, who is responsible for Evonik's high-performance polyamides granules and compounds business.



"Environmental benefits and technical performance of recycled plastics have been widely researched, additional research is needed on the sensory properties of these materials and how people experience and appreciate them from an emotional and sustainability perspective. These insights would help us learn how to differentiate these materials from a CMF perspective. They would also contribute to the business success and adoption of recycled plastics. To achieve a full circular economy, we need to synergize circular design and aesthetic design. That means innovating in materials, services and business models."

- Dr. Christopher Stillings, Vice President and Global Head of Color & Design (CMF) in Covestro's Polycarbonates segment.



to 30 percent; and reduce the use of fossil-based virgin plastics by 50 percent. “We are excited to implement this important change in the packaging of our NIVEA brand products and to be the first in the skincare mass market to use polypropylene made from second-generation bio-based feedstock on a global basis,” says Michael Becker, Head of Global Packaging Development at Beiersdorf. “Together with SABIC, we have taken a major step forward in transforming conventional fossil-based packaging in the cosmetics and skin care segment towards fully sustainable material alternatives.”

According to Abdullah Al-Otaibi, General Manager of Engineering Thermoplastics & Market Solutions for Petrochemicals at SABIC: “Innovative cosmetics packaging using our certified renewable polyolefins can be instrumental in minimizing fossil depletion across a wide range of further consumer mass product markets, and Beiersdorf’s new NIVEA packaging can serve as a role model in this quest.” He continued: “Our materials from renewable sources facilitate the change-over from existing fossil-based applications without compromises on purity, quality, safety or convenience. SABIC is determined to help its collaboration partners benefit from this potential.”

Moreover, the new NIVEA jar is an outstanding example of successful three-way value chain collaboration, accelerating the time from ideation to the retailer shelves. By bringing SABIC to the table to work together with Berry Global, a long and trusted upstream partner of the brand owner for the production of face care packaging, Beiersdorf managed to

advance the project from concept to implementation in just nine months. “We need these strong partnerships along the value chain and are very pleased that we were able to establish and implement such a good cooperation with our suppliers Berry Global and SABIC,” adds Isabel Hochgesand, Chief Procurement Officer at Beiersdorf.

NEW PACKAGING ENABLES CLIMATE FOOTPRINT REDUCTION

Converting the packaging to renewable plastic not



only has the advantage of conserving fossil resources, but also reduces CO2 emissions. According to Beiersdorf, approximately 76 g of CO2 are saved per jar produced, a reduction of around 60% compared to the fossil-based jar. The project therefore also contributes to Beiersdorf’s climate target of reducing its greenhouse gas emissions by 30% absolutely across

the entire value chain by 2025.

Derived from second-generation renewable feedstock, such as tall oil waste from the wood pulping process in the paper industry, SABIC’s certified renewable polymers (PE and PP) are not in direct competition with human food production sources.

The certified products from SABIC’s TRUCIRCLE portfolio are being produced through implementation of a mass balance accounting system. Mass balancing helps to trace the flow of materials along a complex supply chain, from the feedstock to the final product, by following predefined and transparent rules. These rules then define whether a product can be classified as renewable or circular. For SABIC this means that for each ton of renewable or circular feedstock fed into the production process and substituting fossil-based feedstock, approximately a ton of the output materials can be classified as either renewable or circular. By adopting this approach, the certified products from SABIC’s TRUCIRCLE portfolio are accredited under the International Sustainability and Carbon Certification Plus (ISCC) scheme.

SABIC’s complete TRUCIRCLE offering comprises of 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

The New Generation: Safe and Stable Baby Bottles

- Baby products manufacturer Zoom T uses extrusion blow-molded Ultrason® P 3010 for its curved bottles
- BASF’s transparent polyphenylsulfone features high strength and resistance to superheated steam

The Japanese baby products manufacturer Zoom T, Tokyo, is now using BASF’s Ultrason® P to produce baby



bottles under its Dr. Béttá brand. The polyphenylsulfone (PPSU) meets Zoom T's strict requirements for its curved baby bottles that are safe and easy to handle. Ultrason® P 3010 nat is approved for food contact and features excellent strength, chemical resistance and resistance to superheated steam up to 180°C (356°F). These properties ensure that the baby bottles are safe to use, while being lightweight and shatter-proof. They can be used over a long period of time without any loss of their mechanical and optical qualities. The transparent, lightly honey-colored Ultrason® P 3010 easily withstands sterilization in microwave ovens or in very hot water. The BASF PPSU allows for designing complex shapes like the Béttá baby bottles as it is also suitable for extrusion blow molding. Ultrason® P 3010 outperforms commercially available PPSU materials used to manufacture baby bottles because of its excellent melt stability necessary for the extrusion blow molding process.

“We are aware that Ultrason® is also used in sensitive applications and even medical devices due to its outstanding quality. That’s why we count on this material as our goal is to provide maximum safety of our Béttá baby bottles,” says

Tomoko Kawai, President and CEO of Zoom T. “This unique PPSU material makes our bottles easy to handle, long-lasting, highly durable and lightweight – perfect for busy moms and dads. With Ultrason® P we can perfectly produce the curved geometry of our Béttá bottles by extrusion blow molding. This is important as the curved design stops babies from swallowing air while being nursed, preventing ear infections or colic.”

During extrusion blow molding, the plastic melt is first extruded through a die to form a tube-shaped parison. Internal pressure is then used to inflate the molten parison against the sidewalls of a mold thus giving the part its shape. This flexible process also allows for molding of complex part geometries with various wall thicknesses and designs. The medium-viscosity Ultrason® P 3010 nat is particularly suitable for this process due to its inherent high melt stability. This allows the hot, elongated parison to remain stable even near the hot die, ensuring

uniform blow molding.

“Health and safety are key aspects in producing not just baby bottles, but also bottles for adults,” says Georg Graessel from Global Business Development Ultrason® at BASF. “Ultrason® is the ideal material for these kinds of bottles because it makes them safe to handle and it can be used for both hot and cold drinks, remaining stable for a long time. Due to the numerous design possibilities for color and shape as well as the option for producing the bottles either by injection molding or extrusion, it can also be employed to make water bottles for sports or multi-use bottles for green tea which can be found everywhere in Asian countries.”

Ultrason® is the trade name for BASF's product range of polyethersulfone (Ultrason® E), polysulfone (Ultrason® S) and polyphenylsulfone (Ultrason® P). The high-performance material is used to manufacture lightweight components in the electronics, automotive and aerospace industries, but also in water filtration membranes and in parts that come into contact with hot water and food. Because of their extraordinary property profile the Ultrason® brands can substitute thermosets, metals and ceramics in many applications.

For more information: www.ultrason.basf.com

Source : Basf

LyondellBasell Starts Commercial Production of Polymers Using Raw Material Derived from Plastic Waste

WESSELING, Germany, May 6, 2021 /PRNewswire/ -- Lyondell-Basell (NYSE: LYB) announced another step towards its ambition to advance the circular economy by making virgin quality polymers from raw materials derived

from plastic waste at its Wesseling, Germany, site. Produced by the thermal conversion of plastic waste, this raw material is converted into ethylene and propylene in the LyondellBasell production facilities, and then processed into poly-

propylene (PP) and polyethylene (PE) in the downstream units for plastics production. The first use of raw material derived from plastic waste follows the company's successful production of plastic materials made from renew-



able-based raw materials such as used cooking oil, which helps to reduce CO₂ over the product life cycle and reduce the use of fossil-based raw materials.

"Advancing the circular economy requires definitive action and by consistently using these new raw materials in the production of polymers on a commercial scale, we are doing our part to help eliminate plastic waste and address climate change," says Richard Roudeix, SVP Olefins & Polyolefins for Europe, Middle East, Africa and India. "We are expanding our range of sustainable solutions through our Circulen brand and the use of recycled content, offering our customers a way to use recycled polymers in a wide variety of applications."

The products made from recycled and renewable-based raw materials will be marketed by LyondellBasell under the Circulen brand name enabling brand owners to improve the sustainability of consumer products. They enable the production of high-quality plastics for strictly controlled applications such as food packaging and healthcare items.

The LyondellBasell facilities manufacturing these products are certified according to the ISCC (International Sustainability & Carbon Certification) PLUS standard.

LyondellBasell has pledged to reduce CO₂ emissions in its operations worldwide by 15% per ton of product produced by 2030 compared with 2015 levels, and produce and market two million metric tons per year of recycled or renewable-based polymers by 2030.



Additionally, Lyondell-Basell commissioned a pilot plant last year in Ferrara, Italy, to further develop its molecular recycling technology where plastic waste is converted into raw materials for the production of new plastics. The use of plastic waste under real-life conditions helps to further improve research efforts, the goal of which is to build a possible industrial-scale molecular recycling plant, which will further grow the use of raw material derived from plastic waste to produce new plastics.

nology where plastic waste is converted into raw materials for the production of new plastics. The use of plastic waste under real-life conditions helps to further improve research efforts, the goal of which is to build a possible industrial-scale molecular recycling plant, which will further grow the use of raw material derived from plastic waste to produce new plastics.

These developments complement LyondellBasell's activities in the field of mechanical recycling. Here, the Dutch joint venture Quality Circular Polymers (QCP) produces high-quality polyethylene and polypropylene grades from household waste, which are also marketed under the Circulen brand. These polymers are used, for example, in electrical appliances, detergent bottles and travel cases.

Source : LyondellBasell

How a Sars-Cov-2 Variant Sacrifices Tight Binding for Antibody Evasion

The highly infectious SARS-CoV-2 variant that recently emerged in South Africa, known as B.1.351, has scientists wondering how existing COVID-19 vaccines and therapies can be improved to ensure strong protection. Now, researchers reporting in ACS' Journal of Medicinal Chemistry have used computer modeling to reveal that one of the three mutations that make variant B.1.351 different from the original SARS-CoV-2 reduces the virus'

binding to human cells -- but potentially allows it to escape some antibodies.

Since the original SARS-CoV-2 was first detected in late 2019, several new variants have emerged, including ones from the U.K., South Africa and Brazil. Because the new variants appear to be more highly transmissible, and thus spread rapidly, many people are worried that they could undermine current

vaccines, antibody therapies or natural immunity. Variant B.1.351 bears two mutations (N501Y and E484K) that can enhance binding between the receptor binding domain (RBD) of the coronavirus spike protein and the human ACE2 receptor. However, the third mutation (K417N; a lysine to asparagine mutation at position 417) is puzzling because it eradicates a favorable interaction between the RBD and ACE2. Therefore, Binquan Luan and Tien Huynh from



IBM Research wanted to investigate potential benefits of the K417N mutation that could have caused the coronavirus to evolve along this path.

The researchers used molecular dynamics simulations to analyze the consequences of the K417N mutation in variant B.1.351. First, they modeled binding between the original SARS-CoV-2 RBD and ACE2, and between the RBD and CB6, which is a SARS-CoV-2-neutralizing antibody isolated from a re-

covered COVID-19 patient. They found that the original amino acid, a lysine, at position 417 in the RBD interacted more strongly with CB6 than with ACE2, consistent with the antibody's therapeutic efficacy in animal models. Then, the team modeled binding with the K417N variant, which changes that lysine to an asparagine. Although this mutation reduced the strength of binding between the RBD and ACE2,

it decreased the RBD's binding to CB6 and several other human antibodies to a much greater extent. Thus, variant B.1.351 appears to have sacrificed tight binding to ACE2 at this site for the ability to evade the immune system. This information could prove useful to scientists as they work to enhance the protection of current vaccines and therapies, the researchers say.

Source : Chemical Market

DKSH Acquires Sacoa In Australia Further Expanding Its Performance Materials Business

Zurich, Switzerland, April 30, 2021 – DKSH today announced the acquisition of Australian agrochemicals distributor and blender SACOA, further expanding its Performance Materials business in Asia Pacific. The own-brand acquisition is in line with DKSH's strategy to further diversify its value-added service offering and will raise the company to a leading position in the distribution of specialty agricultural chemicals in Australia.

SACOA is a leading Australian formulator of premium agricultural crop protection products. Founded in 1994, the family-owned business develops, formulates and sells spray oils and adjuvants to a long-term customer base of agricultural distributors, resellers and farmers. The product range is supported by industry and academic research and field trial programs as well as proprietary and trademarked brand names.

To support sustainable farming in Australia, SACOA products improve the effectiveness of agricultural goods, lowering costs; reduce spray frequency by solving tank mix compatibility issues; and increase water retention in non-wetting soils, thereby improving germination rates. SACOA's portfolio is highly complementary to DKSH's product portfolio, recently enhanced through the 2020 acquisition of Axieo, including its subsidiary SST, a leading supplier of adju-

vants and spray additives, in Australia and New Zealand.

Thomas Sul and Natale Capri, Co-Heads Business Unit Performance Materials at DKSH, jointly said: "By acquiring SACOA, we actively drive forward market consolidation in the specialty chemicals industry in Asia Pacific. With this move, we will become a leader in the market of specialty agricultural formulations and blends in Australia – a sector with attractive expansion opportunities, also outside of the region. We welcome all of SACOA's employees and look forward to growing together with them."

SACOA is expected to generate net sales of around CHF 15 million¹ at good profitability and return on capital. The acquisition is immediately earnings-accretive and DKSH will acquire 100% of the business. SACOA will be fully inte-



grated into DKSH and the sales teams will be merged to create revenue synergies. Justin Matthews, CEO and founder of SACOA, added: "For more than 25

years, we have been developing premium specialty agricultural chemicals in Australia. By combining DKSH's international expertise and SACOA's local

experience, we generate more value for our customers. We look forward to joining DKSH."

Source : Chemical Market

Reliable Coloration of Ultra-High-Performance Concretes Thanks to Bayferrox Pigments from Lanxess

- Inorganic pigments certified for use in UHPC
- Enhancing the attractiveness of this sustainable construction material

Cologne, April 29, 2021 – Ultra-high-performance concretes (UHPCs) are reckoned to be the construction material of the future. When they are colored, however, you have to ensure that the prescribed compressive strength of more than 150 megapascals is still achieved. The iron oxide pigments from LANXESS's Bayferrox brand are perfect for UHPCs, as has been verified by the association of German cement manufacturers (VDZ) based on an analysis of compressive strength conducted to DIN EN 12390-3.

"Architects and clients can have every confidence in our high-quality pigments for coloring UHPC," says Oliver Fleschentraeger, Market Segment Manager Construction of the Inorganic Pigments business unit at LANXESS. The iron oxide pigments come in red, yellow, and black, with numerous col-

or nuances possible within these shades. "As far as we know, Bayferrox pigments are the only iron oxide pigments on the market that are specially certified for use in UHPC," says Fleschentraeger.

Pressure-resistant, colorful, and environmentally sound

The quantity of materials used is a key metric when it comes to assessing a building's carbon footprint. Not only the choice of materials but also the production chain and construction process are also crucial. So to save materials and



and architects are increasingly using highly sophisticated high-performance components made from UHPC. In addition to the enormous resource savings of up to 80%, material-friendly designs reduce carbon dioxide emissions in the manufacturing phase by up to 30%. "A significant and pleasing side effect of UHPC is its high resource efficiency,

which makes it easier for engineers to meet the demand for sustainable designs," says Dr. Michael Olipitz, a certified expert in the fields of superstructure, bridge-building, steel structures and structural engineering, and General Manager of the engineering office SDO ZT GmbH based in Graz, Austria. Inorganic iron oxide pigments can provide long-lasting visual enhancement to these structures or even effectively contextualize them with their surroundings – without affecting the rheology or flow behavior of the concrete.

Delicacy and solidity go hand in hand

One spectacular architectural application of colored UHPC is the Museum of Civilizations of Europe and the Mediterranean (MuCEM) in Marseille, in the south of France. With the exception of two glazed facades, the museum – including most of the roof – is encased in a lattice-like concrete structure comprising concrete panels just 10 centimeters thick. The French architect Rudi Ricciotti made a conscious decision to color the concrete dark gray to lend the building its own identity within its surroundings and as a stark contrast against the color of the facade. The precast concrete elements were colored with Bayferrox 330 and Bayferrox 318 from LANXESS.

Another benefit of the high-quality Bayferrox pigments is that the concrete, once colored, retains its characteristic texture and exhibits subtle color nuances, lending the surface a natural appearance. In addition, there are no



layers of paint that can flake off of the surface through wear and weathering. Even if the surface is slightly damaged, the color remains as vivid as ever. This is

why iron oxide pigments are the perfect choice for coloring ultra-high-performance concretes, which, with a projected lifetime of more than 150 years, are

around twice as durable as conventional concrete.

Source : Chemical Market

BIOVYN™ Provides a Sustainable Solution for Fossil-Free Construction

- Norway's largest manufacturer and supplier of plastic pipe systems, Pipelife today launches a new generation pipes made from BIOVYN™.
- BIOVYN™ delivers a greenhouse gas saving of over 90% compared to conventionally produced PVC.

Pipelife Norway has become the next industry leader to use BIOVYN™, the world's first commercially available bio-attributed PVC from INOVYN.

Pipelife is a leading international manufacturer of sustainable piping solutions. As Norway's largest manufacturer and supplier of plastic pipe systems, Pipelife Norway has made a step towards fossil-free solutions with the launch of new generation pipes made from BIOVYN™. The pipes will be used in a wide range of applications across building and infrastructure including water supply, cable protection and electrical housing.

With sustainability high on the global agenda, the use of renewable materials in public and private building and infrastructure projects will play a crucial role in delivering the transition to a low-carbon society.

BIOVYN™ has been a game-changer since entering the market as the first commercially available bio-attributed PVC made directly for industry. It offers an RSB-certified 100% substitution of fossil feedstock with biomass that is renewable, does not compete with the food chain and delivers a greenhouse gas saving of over 90% compared to conventionally produced PVC, allowing industries to significantly reduce their carbon footprint.

The significant sustainability benefits of BIOVYN™ do not compromise on the inherent qualities of PVC, making it a perfect solution for industries such as pipes where durability, quality and performance are essential.

Comments Filipe Constant, Commercial Director for INOVYN: "There is incredible global demand for renewable PVC, that decouples its production

from the conventional use of virgin fossil feedstocks. One of the biggest challenges for companies in developing sustainability strategies is understanding which options are at their disposal. We are proud to be able to provide Pipelife Norway with the solution of BIOVYN™.

"Fossil-free solutions, such as those developed by Pipelife Norway, are an excellent example of how the plastics industry can reduce fossil-based raw materials with the development of innovative solutions. We will continue to work to make this an industry standard across sustainable, low carbon building and infrastructure projects."

Comments Sigmund Aandstad, General Manager for Pipelife Norway: "We are delighted to be working in partnership with INOVYN to offer our next generation of sustainable, fossil-free solutions. This important step in increasing the environmental sustainability of our product portfolios positions us as a leading sustainability partner for a wide range of industries across Norway and beyond."

Source : ineos

BASF Collaborates with Industry Partners to Explore Sustainable Refinish Coating Solutions Responding to New Emission Standards

- BASF and its partners respond actively to the new GB/T standards
- BASF commits to lowering carbon footprint for a sustainable future
- Provide innovative, eco-friendly solutions and service packages for



Price as on May 30, 2021

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

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



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

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



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dealers to meet volatile organic compounds targets

Shanghai, China – May 13, 2021 – As a leading player in the market, BASF Refinish Coatings invited all its partners along the value chain to jointly seek the optimal path to achieve the new volatile organic compounds (VOC) emission target, at the occasion of its Annual Dealers Conference in China held today in Shanghai.

In 2021, with the launch of China's 14th Five-Year Plan, the chemical industry focused its environmental protection goals on the low-carbon transformation of the industry and the comprehensive regulation of VOC emissions. Starting from February 1, the new recommended VOC emission standards (GB/T 38597-2020 Technical requirement for low-volatile-organic-compound-content coatings product) have come into force at the State level, placing stricter targets on the entire industry, especially for the automotive refinish industry. Provinces along the Yangtze River Delta, including Jiangsu and Shanghai, have taken a further step to adopt the GB/T standard as compulsory.

Liu Jie, Secretary in General, from China Coatings Industry Association, explained that the major trend of the refinish industry in the next five-year plan will focus on promoting low VOC products significantly. "We've seen quite some changes regarding VOC classification and regulation in the recommended version, which is meant to direct the industry towards the new

standards in three to five years. This is a good opportunity for us to interpret the details, discuss the way forward and gather feedback from different industry players," said Liu. "The ever stricter new standards signified the high importance and urgency the Chinese government would like to curb the VOC pollution from the sources." Liu also shared the staggered implementation status across the country.

"BASF Coatings is responding actively to the central and local governments' call to reduce VOC emissions. In fact BASF has defined comprehensive and transparent sustainability goals and announced its carbon neutral targets in 2050 in March, in line with the Chinese government's carbon goal in 2060," said Patrick Zhao, Senior Vice President, BASF Coatings Solutions Asia Pacific. BASF wants to achieve net zero emissions by 2050. It also significantly raised its medium-term 2030 target to reduce greenhouse gas emissions by 25 percent compared with 2018.

"We at BASF Coatings introduced the Coatings' Carbon Footprint roadmap in 2020, which focused on reducing our carbon footprint along the value chain, from raw materials, production & processes, products & solutions to our employees," said Patrick.

Close to 120 industry experts, association representatives, OEM partners and dealers agreed that thousands of body shops especially those smaller ones, remain to be the important source of

VOC emission and pollution for the refinish industry. The new GB/T put forward challenging targets for all players, which requires all of them to take up the challenge together and co-ex-

plore how to continuously lower VOC emissions and meet the new targets while maintaining the growth of the industry.

BASF Refinish Coatings provides innovative, eco-friendly solutions and service packages to meet its own and its customers' VOC emission targets. For example, NORBIN® 66, is the first waterborne basecoat developed in China, providing cost efficient waterborne coatings that help customers reduce VOC emissions. Glasurit® 100 Line, launched last year globally and in China, is the first basecoat line on the market with a VOC value below 250 g/l, which is a pioneering 40% below the limit of the China GB24409-2020 standard and exceeds all global VOC requirements.

Source : BASF



Maire Tecnimont Group Supports the Supply of 60 Oxygen Concentrators for Covid Relief in Mumbai and Other Indian Cities

- Through the support by Group's Indian entity Tecnimont Pvt. Ltd. Smile Foundation will distribute Oxygen concentrators, oxygen cylinders to hospitals in Mumbai, Bhatinda, Dumat and Paradip
- Additional support provided to St. Elizabeth's Hospital in Mumbai and Terna Speciality Hospital in Navi



Mumbai

- About 14,000 patients will benefit from this CSR project

Mumbai, May 19, 2021 -Maire Tecnimont Group, a global leader in the transformation of natural resources with a strong commitment to industrializing green chemistry and circular economy, will provide support to fight against Covid-19 pandemic through its Mumbai-based engineering hub Tecnimont Private Limited (TCMPL). TCMPL will support Smile Foundation, one of the leading Indian NGOs, as well as giving direct support to dedicated Covid-19 hospitals in Mumbai. At a time when the city and other states have been experiencing shortages of the crucial oxygen supply, this partnership will ensure the distribution of Oxygen concentrators to support Covid-19 care centres in Mumbai, Dumad - Baroda (Gujarat), Bhatinda (Punjab) and Paradip in Odisha. Such Group's Corporate Social Responsibility (CSR) initiative is being directly funded by TCMPL.

According to the partnership, Smile Foundation will procure and distribute 10-litre oxygen concentrators to government hospitals for supporting and strengthening the Covid-19 Care Centres in these cities. The requests coming from relevant government hospitals will be identified by District Health Nodal Office and Smile Foundation to ensure these oxygen concentrators are reached to the much-needed Covid patients. Under the terms, a total of approximately

60 oxygen concentrators would be supplied to the hospitals in these cities, and depending upon the requirement more oxygen concentrators and cylinders would be made available going ahead.

The partnership will enable the distribution of double flow oxygen concentrators in order to fit 2 beds at the same time, hence serving around 120 patients. With TCMPL and Smile Foundation distributing about 60 oxygen concentrators, it shall benefit more than 14,000 patients for 2 years, as oxygen concentrators are expected to function for about 2 years.

For Mumbai and its suburb, TCMPL has also tied up separately with two dedicated COVID hospitals - St. Elizabeth's Hospital (SEH) in Mumbai, and Terna Speciality Hospital in Navi Mumbai - for providing oxygen concentrators, oxygen cylinders and oxygen supply.

Fabrizio Di Amato, Maire Tecnimont Chairman, commented: "A company such as Maire Tecnimont has a strong Indian footprint and works all around the world also thanks to the commitment of our Indian professionals. As our second home India continues to face challenges from the

rising cases of Covid-19 in this second-wave of the pandemic, we strongly felt the duty to help hospitals with oxygen concentrators for patients who are being treated at the Covid health centres across several states. We really hope that this supply will contribute to helping the lives of many people who are battling Covid-19. We are committed to the social cause in every country we are present across the globe, as a fundamental part of our Corporate Social Responsibility effort."

Speaking about the initiative, Mr. Santanu Mishra, Co-Founder and Executive Trustee of Smile Foundation said, "We are extremely happy to join hands with Maire Tecnimont Group, which has risen to the occasion when the country is battling the second wave of Covid-19. With their support, we will distribute the crucial Oxygen concentrators to several hospitals in the country, which will help save lives of many people admitted in the Covid care centres."

Source : Chemical Market

Clariant Chemicals Full Year Profit Grew By 69 Percentage Over Previous Year

Mumbai, May 19, 2021: Clariant Chemicals (India) Limited, a focused, sustainable and innovative specialty chemical company today announced its full year financial results for the year ended March 31, 2021. The company reported Profit before ex-

ceptional item & tax of Rs. 58.07 crore for the year ended March 31, 2021, as compared to Rs. 34.29 crore in the similar previous year period – witnessing a significant growth of 69%, for our continuing business. Sales, in this period declined by 3.5% at Rs. 730.77 crore as

against Rs. 757.28 crore in the similar previous year period, impacted by the Covid nationwide lockdown in the initial months.

The Profit before exceptional item & tax increased to Rs. 22.74 crore for the



quarter ended year ended March 31, 2021, as compared to Profit of Rs. 10.67 crore for the similar previous year period. The Sales rose by 29%, at Rs. 218.84 crore, for the year ended March 31, 2021 as against Rs. 169.48 crore for the corresponding quarter in the previous year, for our continuing business.

The Board has recommended a Final Dividend of Rs. 15 per share (150%).

Adnan Ahmad, Vice Chairman & Managing Director, Clariant Chemicals (India) Limited, said, “Clariant in

India continued to demonstrate its resilience, despite the pandemic. The gloom over Covid was lifting as consumption across different sectors were bouncing back until the second wave was upon us. At Clariant in India, we saw encouraging growth in the past 3 quarters, reflecting an impressive margin delivery. The Board is pleased to

announce a final dividend of Rs. 15 per share (150%), as we continue to commend our shareholders for their trust in us. Our continued focus on Excellence in Execution helps us deliver on our top priorities of safety, sustainability and innovative offerings to all of our stakeholders”.

Source : Chemical Market

DKSH Expands Distribution Agreement with Stepan in India and South Korea

DKSH has expanded its distribution agreement with Stepan, a leading global manufacturer of specialty and intermediate surfactant chemicals, to provide its products for metalworking applications in India and South Korea.

Zurich, May 20, 2021 – DKSH's Business Unit Performance Materials, a leading ingredients and specialty chemicals distributor, has expanded its distribution agreement with Stepan in India and South Korea. Under the agreement, DKSH will be the exclusive partner to provide marketing and sales, distribution and logistics as well as customer management for Stepan's portfolio of specialty and intermediate chemicals to the metalworking fluids market. DKSH and Stepan had already started the cooperation in this application segment in Thailand last year.

In addition to its leading position as a distributor of specialty chemicals and ingredients in Asia Pacific, DKSH was once again selected by Ste-

pan thanks to its strong capabilities in logistics, deep market insights and proven track record of marketing, sales and distribution.

Eric R. Hernandez, Channel Manager – Asia Pacific, Stepan Asia, commented:



“We are looking forward to building on our already

successful relationship with DKSH. The expansion in India and South Korea is a great opportunity for us to jointly increase our market growth.”

Ramon J. Viñas, Vice President, Global Specialty Chemicals Industry, Performance Materials, DKSH, added: “We are grateful to Stepan for their continued trust in our organization and are very excited to diversify their specialties into metalworking applications. With extensive market coverage in India and South Korea, supported by strong technical expertise and innovation center capabilities, we are confident to rapidly penetrate this growing segment.”

Source : Chemical Market



KBLS HYPN System an Intelligent Water Supply Solution for Serving the Changing Water Demand At Constant Pressure

Mumbai, May 2021: Kirloskar Brothers Limited's (KBL's) pressure boosting Hydro-Pneumatic (HYPN) system is an intelligent water supply solution ideally designed for residential and commercial buildings, hotels, hospitals, and industries that can serve the changing water demand at constant pressure. HYPN system is a conventional pumping system converted into an automated pumping system.

A HYPN system maintains constant pressure and helps eliminate unnecessary functioning of pumps in case of low flow conditions. Also, the performance of the HYPN system is controlled, smooth, and facilitates energy and water optimisation. KBL's energy-efficient HYPN system requires low maintenance and its customised configuration and design ensures its long life, making it one of the most cost-effective pressure-boosting systems globally.

An operational standard pump significantly contributes to operational expenditure in two ways: high energy consumption and high spending on pumps' maintenance. The HYPN system helps curb these associated costs, majorly by optimising the energy cost through greater control on the supply capacity of liquid, varying it as per user or system demand.

KBL has accomplished further value addition by coupling HYPN system with remotely accessible smart monitoring devices such as mobile phone, iPad, among others. As a result, customers can remotely monitor and keep a tab on the status of their system on the go, wherever they are, right on their mobile devices. The remote monitoring option gives customers an edge in two ways:

firstly, through its predictive modelling capabilities, customers can take corrective measures before pump breakdown and, secondly, it substantially reduces dependency on field inspectors thus ensuring manpower optimisation.

Most pump manufacturers offer only vertical inline multistage pumps in pressure booster applications. However, site conditions may require a different type of pump. KBL has successfully coupled its pressure boosting technology with a wide range of pumps like inline, end suction, sump pumps, split case pumps, VT pumps, among others.

This ensures the most suitable pump being used yielding the best performance over the entire life of the system. This customisation has also enabled the application of KBL's HYPN system in almost all the industrial verticals right from pharmaceutical and chemical process industries to other critical sectors such as mining, textile, steel, railways, hotels, hospitals, malls, multiplexes, and metro, among others.

KBL is a UL registered supplier of packaged pumping systems. As far as the certifications and accreditations for its HYPN system are concerned, KBL achieved one of its biggest milestones recently when the company became India's first manufacturer of HYPN systems to be recognised with the prestigious India Design

Mark (IDM), a design standard backed by a stringent evaluation process that symbolises product excellence in the form of quality and innovation. The IDM symbol is a befitting testimony to the extensive and dedicated efforts of KBL's R&D and Design team that went into the development of such a highly usable, durable, and efficient HYPN system.

KBL has a dedicated facility for testing its Kirloskar HYPN systems located at Shirval, Maharashtra. In fact, KBL is among the only few pump companies in the country to possess a dedicated facility for testing HYPN pumps.

The HYPN systems are primarily used for maintaining critical water supply across some of the biggest and dedicated Covid-19 hospital buildings built or set-up for the treatment of coronavirus patients. These included the 551-bed hospital building set-up near Kasaragod, Kerala, the 500 bed Sardar Vallabhbhai Covid Hospital constructed by DRDO at Delhi, the 400 bed District Hospital building at Noida, Uttar Pradesh, and the 800-bed Covid-19 hospital in Pune. In all these hospitals, KBL's HYPN pumps are operational.

Source : Chemical Market



Visit : <https://chemicalmarket.net/search>
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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

Acetonitrile

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

Alizarine Red

Mavani Chemicals Pvt. Ltd. Pg 11

Amido G. Acid to Gamma Acid

AAKAR DYES AND CHEMICALS Pg 12

Amino ISO J Acid

AAKAR DYES AND CHEMICALS Pg 12

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

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

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

Bromo Benzene

Krishna Solvechem Ltd. Pg 10

D

Dehydro Thio Based

Mavani Chemicals Pvt. Ltd. Pg 11

Diethylamine

Krishna Solvechem Ltd. Pg 10

Diethylenetriamine

Krishna Solvechem Ltd. Pg 10

Diethylhydroxylamine (DEHA)

Krishna Solvechem Ltd. Pg 10

Diisopropylamine

Krishna Solvechem Ltd. Pg 10

Diisopropylether (DIPE)

Krishna Solvechem Ltd. Pg 10

Diisopropylethylamine

Krishna Solvechem Ltd. Pg 10

Dimethylamine Hcl

Krishna Solvechem Ltd. Pg 10

Dimethylaminopropylamine (DMAPA)

Krishna Solvechem Ltd. Pg 10

Dimethylformamide

Krishna Solvechem Ltd. Pg 10

Dimethyl Sulphoxide

Krishna Solvechem Ltd. Pg 10

Di-n-butylamine

Krishna Solvechem Ltd. Pg 10

Dipropylene Glycol

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

E

Edible Refine Salt

SKC INDUSTRIES LLP Pg 14

F

Formic Acid 85% Luxi

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



Heptane Krishna Solvechem Ltd. Pg 10	N-Propyl Bromide Krishna Solvechem Ltd. Pg 10	Sodium Chloride Krishna Solvechem Ltd. Pg 10
Hexane Krishna Solvechem Ltd. Pg 10	O	Sodium Chloride NACL 99% SKC INDUSTRIES LLP Pg 14
Basic Brown Y Liquid Pg 13	Octyl Bromide Krishna Solvechem Ltd. Pg 10	Sodium Percarbonate Chemilife Enterprises Pg 9
HIREN ENTERPRISES Pg 13	Octyl Chloride Krishna Solvechem Ltd. Pg 10	Sodium Sulphate SKC INDUSTRIES LLP Pg 14
Basic Brown Y Liquid Pg 13	Orange ARL Mavani Chemicals Pvt. Ltd. Pg 11	SS Krishna Solvechem Ltd. Pg 10
Hydrogen Peroxide 50% Krishna Solvechem Ltd. Pg 10	Orange Base Mavani Chemicals Pvt. Ltd. Pg 11	Stain Indicator Mavani Chemicals Pvt. Ltd. Pg 11
I	P	S. Titan Yellow Mavani Chemicals Pvt. Ltd. Pg 11
Indole Acetic Acid Chemilife Enterprises Pg 9	Papas Acid Mavani Chemicals Pvt. Ltd. Pg 11	Mavani Chemicals Pvt. Ltd. Pg 11
Indole Butyric Acid Chemilife Enterprises Pg 9	Peracetic Acid Chemilife Enterprises Pg 9	STPP Krishna Solvechem Ltd. Pg 10
Industrial Salt SKC INDUSTRIES LLP Pg 14	PH Mavani Chemicals Pvt. Ltd. Pg 11	Sulphuryl Chloride Krishna Solvechem Ltd. Pg 10
IsoButyl Chloride Krishna Solvechem Ltd. Pg 10	Phosgenated and Cyanuric Based Mavani Chemicals Pvt. Ltd. Pg 11	T
Isoprpyl Alcohol (IPA) Krishna Solvechem Ltd. Pg 10	Pivaloyl Chloride Krishna Solvechem Ltd. Pg 10	Tablet Salt SKC INDUSTRIES LLP Pg 14
J	PMBS Krishna Solvechem Ltd. Pg 10	Tetraethylene Pentaamine Krishna Solvechem Ltd. Pg 10
J Acid AAKAR DYES AND CHEMICALS Pg 12	Propylene Glycol Monomethyl Ether Acetate Krishna Solvechem Ltd. Pg 10	Tetrahydrofuran (THF) Krishna Solvechem Ltd. Pg 10
L	Q	Thionyl Chloride Krishna Solvechem Ltd. Pg 10
Lactose Monohydrate Krishna Solvechem Ltd. Pg 10	Quinizarine (1-4 Dihydroxy Anthraquinone) Mavani Chemicals Pvt. Ltd. Pg 11	Tobias Acid AAKAR DYES AND CHEMICALS Pg 12
M	R	Trethylamine Krishna Solvechem Ltd. Pg 10
Mamas Acid Mavani Chemicals Pvt. Ltd. Pg 11	Raw Salt/Crystal/Coarse Salt SKC INDUSTRIES LLP Pg 14	TRIS AZO Mavani Chemicals Pvt. Ltd. Pg 11
Methoxy Acetyl Chloride Krishna Solvechem Ltd. Pg 10	Red - 4G Mavani Chemicals Pvt. Ltd. Pg 11	TSP Krishna Solvechem Ltd. Pg 10
MIPA 70% Krishna Solvechem Ltd. Pg 10	Red - HI Mavani Chemicals Pvt. Ltd. Pg 11	TSPP Krishna Solvechem Ltd. Pg 10
Mnoethylamine 70% Krishna Solvechem Ltd. Pg 10	S	V
MSP Krishna Solvechem Ltd. Pg 10	Salt Free Dyes Mavani Chemicals Pvt. Ltd. Pg 11	Valeryl Chloride Krishna Solvechem Ltd. Pg 10
N	SAPP Krishna Solvechem Ltd. Pg 10	Violet 4B Mavani Chemicals Pvt. Ltd. Pg 11
Naphthalene 2:7 Disulfonic Acid AAKAR DYES AND CHEMICALS Pg 12	Silver Peroxide Chemilife Enterprises Pg 9	Y
N-Hexyl Bromide Krishna Solvechem Ltd. Pg 10	SMBS Krishna Solvechem Ltd. Pg 10	Yellow ARL Mavani Chemicals Pvt. Ltd. Pg 11
N-Hexyl Chloride Krishna Solvechem Ltd. Pg 10	Sodium Bromide Krishna Solvechem Ltd. Pg 10	Yellow GL Mavani Chemicals Pvt. Ltd. Pg 11
Nitrizine Yellow Mavani Chemicals Pvt. Ltd. Pg 11		Yellow RL Base Mavani Chemicals Pvt. Ltd. Pg 11



New Microporous 3D Printing Material Offers A New Kind of Design Freedom

PRESCOTT, Wis., May 25, 2021 / PRNewswire/ -- Infinite Material Solutions LLC. (Infinite™), an innovator in material design for additive manufacturing, has just announced the official launch of a new material with fascinating potential. The product, called Caverna™ PP, is the world's first extrudable thermoplastic with a water-soluble, co-continuous, microporous morphology. In simpler terms: It's a 3D printing filament that allows users to create lightweight foam parts resembling a sponge.

Specifically designed for use in Fused Filament Fabrication (FFF) systems, Caverna PP is the first in Infinite's line of forthcoming Caverna™ build materials. Each one will be a unique blend of two polymers: a soluble material to be removed through dissolution, and an insoluble build material (in this case, polypropylene) to remain. After dissolution, the water-soluble phase leaves behind a cave-like network of microporous, interconnected channels inside the build material, making it light, soft, and porous.

The company expects this new material to get additive manufacturers dreaming up new applications in fields such as filtration, separators, footwear, and personal protective equipment. One area

of particular interest is the potential to create porous tooling for the production of vacuum formed parts. Caverna PP's co-continuous distribution of tiny pores (1–4µ) could allow for consistent airflow, eliminating the need to drill holes, and maximizing material distribution.

For Infinite's Chief Operating Officer Larry Doerr, Caverna PP's launch rep-



resents yet another company success, after bringing to market a high-temperature, water-soluble support material just last fall.

"With so many breakthroughs happening on a regular basis, additive manufacturing is an exciting space to participate in," said Doerr. "I'm extremely proud of our team for once again creating a material that stands out and redefines what's possible with FFF — and I'm excited to watch the industry take Caverna PP's unique capabilities and run with them."

Caverna PP joins two other novel materials in Infinite's portfolio: AquaSys® 120 and AquaSys® 180 water-soluble support filaments. These materials pair with popular build materials, ranging from PLA to PEEK, to support complex designs, then dissolve quickly in tap water to leave behind a finished part. Infinite recommends pairing Caverna PP with AquaSys 120 for one-step dissolution. Users can simply print the part, leave it to dissolve, and come back to find a complete build with a microporous structure.

For more information about Caverna PP, visit: <https://infinitematerialsolutions.com/explore-caverna/>

Source : PRNewswire

CAO Group, Inc. Releases World's First 94% Alcohol Hand Sanitizer- ZaPro™ Hand Sanitizer

SALT LAKE CITY, May 26, 2021 / SPRNewswire/ -- The CAO Group, Inc. (CAO) releases ZaPro™ Hand Sanitizer, the world's first hand sanitizer containing 94% alcohol which features quick drying, no stickiness, and lotion like feeling. This innovative technolo-

gy kills microbials faster and allows for professionals to immediately apply their protective gloves after application.

Current hand sanitizers in the market contain about 60-75% alcohol, take time to dry, are sticky, and leave cracked and

dry skin. It is difficult for professionals to put gloves on right after the application using existing hand sanitizers. It is also known that the higher the alcohol concentration, the faster the kill rate of microbials. Understanding the issues in current hand sanitizers, CAO devoted



its R&D efforts to search for solutions and developed a proprietary formulation that can contain a alcohol concentration up to 94%. The proprietary thickener in our formulation provides the following advanced technology:

- Quick dry™
- No stickiness™
- Easy to slip™

Which, when utilized together features a fast drying, lotion like feel on your hands that allows for immediate application of your protective gloves.

"Hand sanitizer is a product that has been on market

for decades without innovations. The innovation in ZaPro hand sanitizer enables consumers to use the hand sanitizer more often without any hesitation and makes the control



Easier, Faster, and Better, particularly for dental, medical, and

other professionals who use gloves during the work.'
said, Densen Cao, PhD, President and CEO of CAO.
"You have to try ZaPro hand sanitizer to experience the difference."

ZaPro hand sanitizer is packaged in 8.5oz and 2L pump bottle, respectively and available to ship. CAO offers risk free policy on this innovative hand sanitizer. For more product information, please visit www.caogroup.com or call 1-877-877-9778.

Source : PRNewswire

Zhongding Group for Great Wall Motors Made with BASF's Ultramid® Polyamide 6

- Contributes to sustainable mobility as the automotive part is 30-40% lighter than its metal equivalent
- Ultrasim® optimizes the design of the transmission cover; maximizes strength and performance of the automotive part
- BASF's part testing lab includes a new fixture with a higher shooting frequency that speeds up test

Shanghai, China – May 28, 2021 – Zhongding Group, a Chinese supplier of plastics automotive parts to the global market, now uses BASF Ultramid® polyamide (PA 6) to produce transmission covers for Great Wall Motors.

Lightweighting with BASF's innovative material solutions contributes to sustainable mobility, as it is more energy efficient and lowers CO2 emissions. By replacing metal with Ultramid, the transmission cover's weight can be reduced by 30-40%. The metal-to-plastics initiative also enables cost-efficient

manufacturing as the one-step injection process is more straightforward than metal manufacturing. Additionally, Ultramid is an excellent material of choice owing to its high strength, superior toughness, outstanding thermal stability, and laser markability. Further, its properties can be enhanced and optimized as compared to metal.



With BASF's simulation tool Ultrasim®, the part behavior can be accurately predicted subject to various loading and environmental conditions. The CAE tool also helps optimize the transmission cover design for the most efficient use of high-performance and advanced material. It also maximizes the automotive part's strength and performance.

This reduces the number of prototypes required, and accordingly, the development time.

"BASF and Zhongding have been collaborating for over ten years, and we have co-created many new applications. With its CAE competencies, we have optimized design, cost, testing, and material usage. We look forward to further collaboration with BASF, leading to more innovative and sustainable solutions for OEMs such as Great Wall Motors," said Chunlin Cao, General Manager, Zhongding Group.

As part of the transmission cover devel-



EVENTS AND CONFERENCES

MIDDLE EAST SPECIALTY CHEMICALS SHOW

Date: June 15, 2021

City: DWTC, Dubai, UAE, Dubai

Country: United Arab Emirates

Website: <https://www.fibre2fashion.com/trade-fairs/middle-east-specialty-chemicals-show-2021-57741>

Description: Co-located with Middle East Coatings Show 2021, we have broadened our reach to provide you with new opportunities to help you reach new clients, increase awareness for your company and much more... With our experience of attracting the leading names in the coatings industry for over 30 years we will bring owners and directors of companies, giving you the opportunity to meet an extremely high number of decision makers all under one roof. The Coatings Group are offering you the chance the leadings names in the speciality chemicals market at the Middle East Speciality Chemicals Show.

ASIA PACIFIC COATINGS SHOW

Date: September 01-03 2021

City: Jakarta Convention Center, Jakarta

Country: JIndonesia

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.

EXPO PAINT AND COATINGS

Date: July 8-10, 2021

City: New Delhi

Country: India

Website: <https://expopaintcoating.com>



EVENTS AND CONFERENCES

Description: Expo Paint & Coatings - 2020 is a comprehensive Paint & Coatings Exhibition providing platform to the needs of every facade of the coating industry right from raw materials, formulation, application, technology, finishing, quality assurance, recycling and disposal. The Exhibition will feature a wide range display of products, Raw Materials, Application systems, Machines, Tools, current trends, development & innovations shaping future of coating industry. Expo Paint & Coatings - 2020 will bring together leading local and international manufacturers, formulators, buyers, industry professionals, consultants, enthusiasts and prospective entrants from the Paint & Coatings, surface finishing & allied industry presenting unrivaled opportunities to network, exchange best practices, do business, unveil new products and source cutting-edge products, technologies and solutions.

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



opment process, BASF introduced a new fixture leading to shorter shooting cycle times (2mins from the previous 10mins per shoot) that speeds up the whole procedure at the test bench. BASF's parts testing lab was also upgraded with a laser pointer that increases the exact

shooting spots.

"We continually enhance BASF's comprehensive R&D capabilities in the Asia Pacific with new technologies, technical expertise, upgraded material, and part testing services. For our custom-

ers in the Asia Pacific, this translates to speeding up time-to-market and competitiveness," said Desmond Long, Vice President, Business Management Transportation, Performance Materials Asia Pacific, BASF.

Source : BASF

Evonik and SI Coatings Develop Water-Based Primer for Polyamide Coatings

- Labelling obligation for chemicals according to GHS system not applicable
- Easy to handle for more occupational safety
- Available for customers worldwide

Polyamide coatings on metal serve to protect against corrosion. It is therefore important that they are applied uniformly, do not peel off, and cannot be infiltrated by water. In addition, they must be resilient against external influences so that the coating provides lasting protection. Evonik's VESTOSINT® polyamide 12 fluidized bed powders have proven their performance here for many years. Until now, large-area steel parts, especially concave surfaces, were pretreated with solvent-containing primers when exceptional adhesion was required, for example, in contact with water.

RELIABLE AND SUSTAINABLE

"Evonik has firmly anchored the idea of environmental compatibility in its corporate strategy. Therefore, for the processing of VESTOSINT® we were looking for a

partner with whom we could develop a water-based primer that is precisely matched to our polyamide powder. We found this partner in SI Coatings," says Dr. Dominic Störkle, head of the Additive Manufacturing & Material Solutions product line at Evonik, describing the motivation for the collaboration. Evonik's many years of expertise in fluidized bed coating with polyamide powder and SI Coatings' know-how in the field of adhesion promoters ideally complemented each other. The result: a reliable water-based primer that does not require any special work protection technology such as fume hoods. The product is label-free according to the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). The residual solvent content, reported as volatile organic compounds (VOCs), is less than two percent. "Since we are a globally active company, we can offer the jointly developed primer to Evonik customers worldwide and also in small quantities," says Managing Director Andreas Kunz of SI Coatings, emphasizing the advan-

tage of the partnership.

The new primer SI Coatings 100011-00L with water hazard class WGK1 has a shelf life of six months when stored frost-free. It can be applied by brushing, spraying, dipping or doctoring and baked at about 300 °C during heating for the fluidized bed process with VESTOSINT®. One possible application is cardan shafts, which are coated on both the outside and the inside. Evonik markets the high-performance plastic polyamide 12 as a powder under the name VESTOSINT®, for example, for coating dishwasher baskets, metals in household goods, the automotive industry or medical technology. The Group is a global leader in the production of polyamide 12 compounds, which are in high demand in highly attractive markets such as the automotive industry, oil and gas production, and the medical and sports sectors. SI Coatings in Wuppertal develops and produces technical, functional and decorative coatings as well as adhesion promoters for a wide range of applications.

Source : Evonik

LVMH Perfumes & Cosmetics Chooses Eastman Cristal™ Renew to Begin Elimination of Virgin plastic

KINGSPORT, Tenn., USA, June 1, 2021 — LVMH Perfumes & Cos-

metics, a division of luxury powerhouse LVMH, today announces its collabora-

tion with global specialty material provider Eastman (NYSE: EMN) to develop



packaging made possible through Eastman's molecular recycling technologies.

Parfums Christian Dior is the first of LVMH's major historic Houses to introduce Eastman Cristal™ Renew copolyester, with 30% certified recycled content,* for its Dior Addict Lip Maximizer packaging that hits shelves this summer. Eastman and LVMH will continue to work together on sustainable packaging solutions across LVMH's family of distinguished brands, with additional adoption expected over the next several months. "Our collaboration with Eastman marks a critical milestone towards progressively eliminating fossil-fuel-based plastics from our packaging. With our recently published LIFE 360 program, we made the decision that our packaging will contain zero plastic from virgin fossil resources in the years ahead," said Hélène Valade, LVMH environmental development director.

"Eastman's innovative molecular recycling technologies are playing a crucial

role in helping LVMH achieve our sustainability targets," said Valade. "We are at the very beginning of our journey to meet our targets. With our first deadline in 2023, we need solutions that are available now and at a global scale, ensuring our customers experience these benefits immediately." Introduced in late 2020, Eastman's portfolio of sustainable resins for cosmetic packaging builds on its long history of innovation and knowledge of the cosmetics industry.

Eastman's groundbreaking Advanced Circular Recycling technologies produce resins from mixed waste plastic rather than fossil-based feedstocks. These innovative molecular recycling technologies divert waste plastic from landfills, give waste plastic new life, and reduce greenhouse gas emissions relative to traditional production.

With Eastman's technologies, brands can meet their ambitious targets for re-

cycled content right now and maintain the premier aesthetics and function that luxury consumers expect.

"LVMH is staking out a leadership position among luxury brand houses by taking bold action to achieve environmental excellence," said Scott Ballard, vice president and general manager, specialty plastics, Eastman. "We are proud to be working with LVMH and to provide the technology and products that will help them deliver on their circular economy goals."

Visit eastman.com/circular for more information on Eastman's efforts in the circular economy and Eastman Renew materials. *The recycled content is achieved by allocating the recycled waste plastic to Eastman Renew resins using a mass balance process certified by ISCC.

Source : Eastman

Braskem Develops World's First Renewable Polyethylene Wax

Braskem has launched the world's first renewable polyethylene (PE) wax, used in the production of adhesives, cosmetics and compounds. The product, commonly used as a viscosity modifying agent in diverse formulations, has the same properties and delivers the same performance as the version made from fossil-based PE. Produced from sugarcane ethanol, the new solution entails lower CO2 footprint, is recyclable and has applications in multiple markets.

With the arrival of the renewable PE wax in the global market, Braskem has innovated and expanded its I'm green™ bio-based portfolio, offering products

that go beyond the resins currently being supplied. The I'm greenT brand represents Braskem's commitment to the circular economy and comprises solutions from renewable and recycled sources.

"Braskem has been producing bio-based plastic for over a decade. All the results achieved and the new products developed are the result of its dedication and investments in research and development to produce sustainable solutions. Bringing the renewable PE wax to the global market underscores our commitment to become a carbon neutral company by 2050," explained Gustavo Sergi, director of Renewable Chemicals

and Specialties at Braskem.

The I'm green™ bio-based polyethylene that is used to produce the renewable PE wax is capable of absorbing carbon dioxide from the atmosphere during its production cycle. In addition, the production of renewable polyethylene from ethanol saves 80% energy in relation to the traditional production routes. "We work every day moved by the goal of combining innovation and sustainable development to create a better impact on the planet and society," concluded Gustavo.

Source : Braskem



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