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A MONTHLY MAGAZINE DEVOTED TO

DYES CHEMICALS PHARMACEUTICALS API TEXTILE AUXILIARIES PAINTS SOLVENTS COSMETICS

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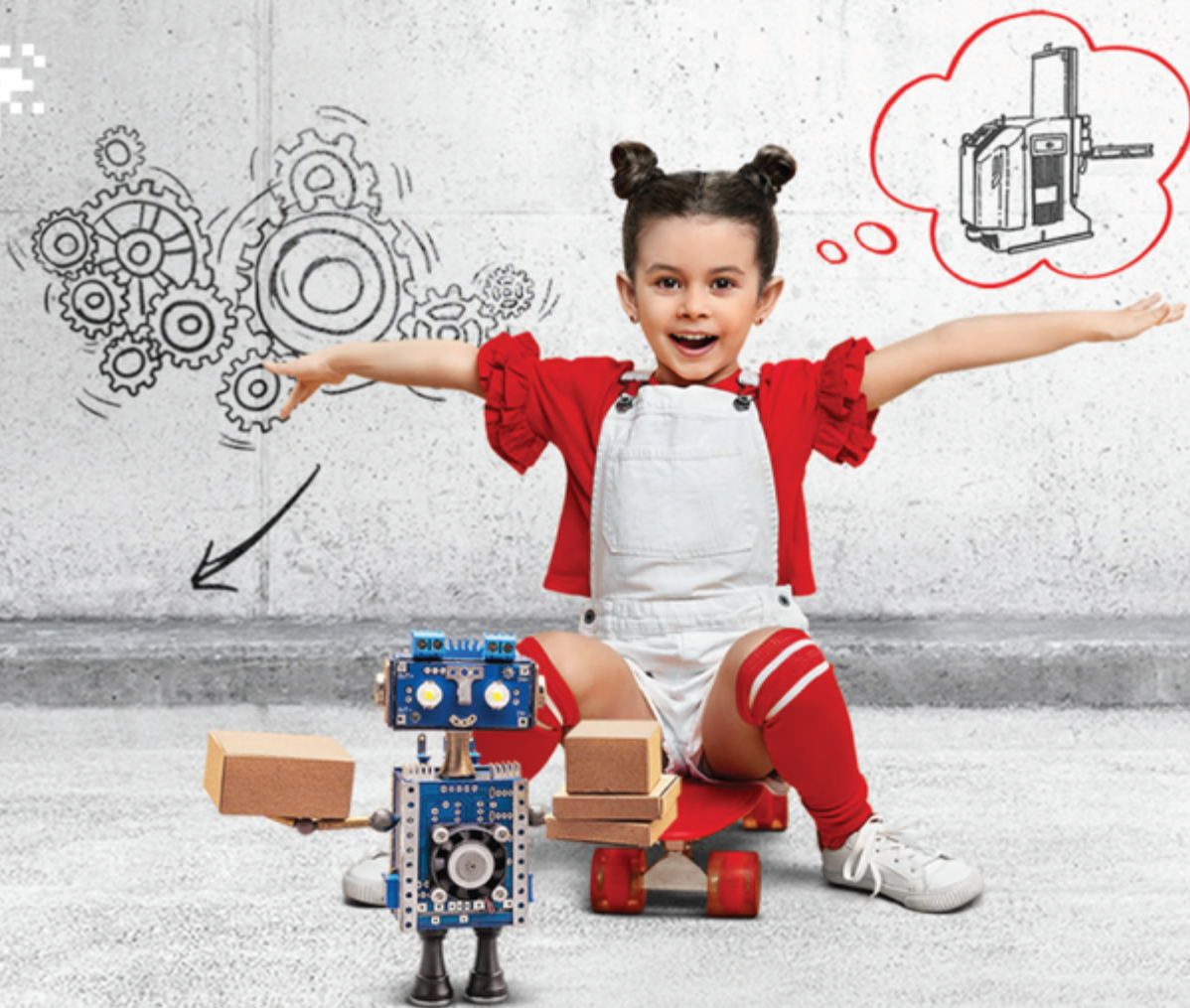
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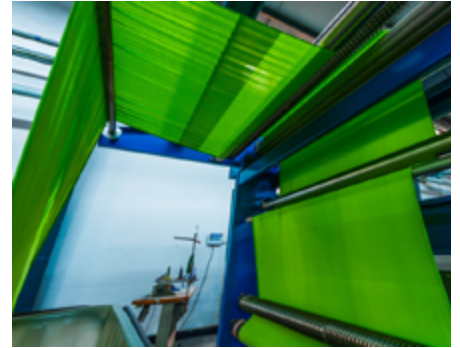
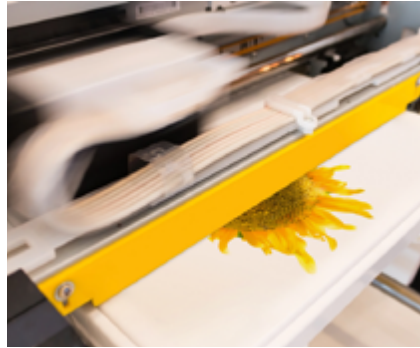
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24-26 November 2022
Istanbul Expo Center

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Highlights

15000+ m²
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300+
Exhibitors

10000+
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5
Halls

Exhibiting Sectors



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HALL - 5



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Expo Paint And Coatings - 2022

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

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Total Solutions For Paint Manufacturing & Application

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

EVENT HIGHLIGHTS



10000 m²
Exhibition Space



250+
Exhibitors



10000+
Visitors



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2019 AT A GLANCE

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

Exhibitor Analysis

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

Supported By:



Visitor Analysis

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

Concurrent Show

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

BrushTech 2022

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Bromo Benzene

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Direct Imports : Diethylenetriamine, Diisopropylether (DIPE), Dimethylformamide, Dimethyl Sulphoxide, Dipropylene Glycol, Formic Acid 85% Luxi, Heptane, Hexane, Hydrogen Peroxide 50%, Isoprpyl Alcohol (IPA), Lactose Monohydrate, MSP, SAPP, STPP, TSP, TSPP, SS, SMBS, PMBS, Propylene Glycol, Propylene Glycol Monomethyl Ether Acetate, Tetraethylene Pentaamine, Tetrahydrofuran (THF)



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Cphi - Informa Group

No	Exhibitions	Date	Place
1	CPhi North America	May 17-19, 2022	PHL
2	CPhi Worldwide Germany	Nov 1-3, 2022	Messe Frankfurt, Germany
3	CPhi Middle East & Africa	Apr 28, 2022	Fiera Milano, Milan, Italy
4	CPhi China- Virtual CPhi	June 21-23, 2022	SNIEC, Shanghai, China
5	CPhi Japan	Apr 20-22, 2022	Tokyo, Japan
6	CPhi Korea	Sept 28-30, 2022	COEX, Seoul, Korea
7	CPhi India	Nov 29 to Dec 1, 2022	Noida, India

MECD (Coating Show)

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

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CHEMS

1	Dye+Chem Morocco International Expo	Nov 24-27, 2021	Morocco
2	Dye+Chem Sri Lanka International Expo	TBD	Colombo Sri Lanka
3	Dye+Chem Bangladesh International Expo	Aug 31 - Sept 3, 2022	Bangladesh
4	Dye+Chem Brazil International Expo	Nov 09-11 2021	Brazil

Red Carpet Events

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

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

Other Exhibitions

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

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Contact

Bharat Mehta

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Nigrosine Black Dyes	1 Can	Industrial
Details : Gary Brent Auckland, New Zealand Email : gary.brent@washtech.co.nz Mobile : +64-2195-5732		

Product Name	Qty	Grade
n Butyllithium 23%	5 T	Chemical
Details : Sook Young Yoon Gyeonggi-do, South Korea Email: syyun@jtcs.co.kr Mobile: +82-318-016-8258		

Product Name	Qty	Grade
Potassium iodide-IP-BP-USP	1KG	Virgin Pure
Deepak Kala Hyderabad, Telangana, India Email : deepak.kala@vbsilpa.com Mobile : +91-706-055-5929		

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

Product Name	Qty	Grade
2-Phenoxyethanol	220 Kgs	Industrial
122-99-6 // P12030		
Nandakishore Bangalore, Karnataka, India Email : nkshetty@wilber.co.in Tel.: +91-901-965-0701		

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

Product Name	Qty	Grade
Triethylsilane 98%	500 gms	Industrial
Details : Honest Traders (India) Email : honestchem3@gmail.com Mobile : +91-635-177-0203		

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

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

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

Product Name	Qty	Grade
caustic soda flakes 98% sodium hydroxide	500 Kgs	Chemical
Details : Need this 5 Tonnes. EMEL KILINÇ Gaziantep, Türkiye Email : satinalma@toren.com.tr Mobile : +90-535-454-0331		



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Product Name	Qty	Grade
CAS NO 112-12-7 FISCHER'S BASE	2000 Ltr	Any
Details : Required On Regular Basis. Min Qty 2000 Ltr. Jitendra Bhalgat Ahmednagar, Maharashtra, India Email : jbhalgat11@gmail.com Mobile : 9422220871		

Product Name	Qty	Grade
Sodium Hypochlorite	500 Kgs	Industrial
Details : We need this product on a regular basis (Monthly) Please contact us if you are a manufacturer or a distributor. (Required in and around Calicut 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
DIRECT BLUE-71	200Kgs	Industrial
Can blue 71 pass EN71 certification? How much does it cost? Email : steven@chifra.com.tw Mobile : +88-691-352-0913		

Product Name	Qty	Grade
Fast Red KD Base (HS Code – 29225014)	2 t every month	
Napthol AS-LC (HS Code – 32041929)		
Napthol ASIRG (HS Code - 29242990)	500 kg every month	
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
Sulphur Granules	30 Tonnes	Industrial
Details : DERRICK MWANSA Chingola Central, Chingola, Zambia Mobile: +26-097-759-2183 Email : derrick.mwansa@rgpm-group.com		



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

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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		



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CHEMICAL MARKET

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

Chemical Industry in a nutshell! Part 2

Recap From Part1:

We discussed and explained Polymers and plastics, Basic chemicals, Polymers, Polyvinyl chloride (PVC), Polypropylene (PP), Polystyrene (PS), Inorganic chemicals.

Fertilizers are the smallest category (about 6 percent) and include phosphates, ammonia, and potash chemicals.

Life sciences

Life sciences (about 30% of the dollar output of the chemistry business) include differentiated chemical and biological substances, pharmaceuticals, diagnostics, animal health products, vitamins, and pesticides. While much smaller in volume than other chemical sectors, their products tend to have high prices - over ten dollars per pound - growth rates of 1.5 to 6 times GDP, and research and development spending at 15 to 25% of sales. Life science products are usually produced with high specifications and are closely scrutinized by government agencies such as the Food and Drug Administration. Pesticides, also called "crop protection chemicals", are about 10% of this category and include herbicides, insecticides, and fungicides.

Specialty chemicals

Specialty chemicals are a category of relatively high valued, rapidly growing chemicals with diverse end product markets. Typical growth rates are one to three times GDP with prices over a dollar per pound. They are generally characterized by their innovative aspects. Products are sold for what they can do rather than for what chemicals they contain. Products include electronic chemicals, industrial gases, adhesives and sealants as well as coatings, industrial and institutional cleaning chemicals, and catalysts. In 2012, excluding fine chemicals, the \$546 billion global specialty chemical market was 33% Paints, Coating and Surface Treatments, 27% Advanced Polymer, 14% Adhesives and Sealants, 13% additives and 13% pigments and inks.

Specialty chemicals are sold as effect or performance chemicals. Sometimes they are mixtures of formulations, unlike

"fine chemicals," which are almost always single-molecule products.

Consumer products

Consumer products include direct product sale of chemicals such as soaps, detergents, and cosmetics. Typical growth rates are 0.8 to 1.0 times GDP.

Consumers rarely come into contact with basic chemicals. Polymers and specialty chemicals are materials that they encounter everywhere daily. Examples are plastics, cleaning materials, cosmetics, paints & coatings, electronics, automobiles and the materials used in home construction. These specialty products are marketed by chemical companies to the downstream manufacturing industries as pesticides, specialty polymers, electronic chemicals, surfactants, construction chemicals, Industrial Cleaners, flavours and fragrances, specialty coatings, printing inks, water-soluble polymers, food additives, paper chemicals, oil field chemicals, plastic adhesives, adhesives and sealants, cosmetic chemicals, water management chemicals, catalysts, textile chemicals. Chemical companies rarely supply these products directly to the consumer.

Annually the American Chemistry Council tabulates the US production volume of the top 100 chemicals. In 2000, the aggregate production volume of the top 100 chemicals totaled 502 million tons, up from 397 million tons in 1990. Inorganic chemicals tend to be the largest volume, though much smaller in dollar revenue terms due to their low prices. The top 11 of the 100 chemicals in 2000 were sulfuric acid (44 million tons), nitrogen (34), ethylene (28), oxygen (27), lime (22), ammonia (17), propylene (16), polyethylene (15), chlorine (13), phosphoric acid (13) and diammonium phosphates (12)

-Rajiv Parikh



Worldwide Natural Biopolymers Industry to 2031 - Focus on Packaging, Consumer Products, Automotive, Textiles, Medical Devices, Electronics and Building Materials

DUBLIN, May 25, 2022 /PRNews-wire/ -- The "The Global Market for Natural Biopolymers: PHA, Polysaccharides, Protein, Algal & Fungal, Mycelium and Chitosan" report has been added to ResearchAndMarkets.com's offering.

The market for biopolymers extracted from agro-food wastes, biomass such as polysaccharides, proteins and lipids, as well as those produced by yeast biomass, algae or by bacterial fermenta-

tion, have attracted a significant amount of research and industrial interest over the last few years. Applications have been developed for food packaging, agricultural films, membranes, sustainable clothes etc. and will continue to grow with continued government and industry push for sustainable plastics.

Biopolymers or natural polymers are naturally occurring polymers formed by plants, animals, and microorganisms. In this group naturally occurring

and chemically modified polymers are included, such as cellulose, chitin, gelatin, vegetal proteins, β -glucan, dextrane, and kefiran. Biopolymers are directly used as obtained from their sources and are biodegradable; they are also referred to as natural polymers.

Read the full report : <https://www.researchandmarkets.com/r/l9p09j>

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

The Worldwide White Inorganic Pigments Industry is Projected to Reach \$29.5 Billion by 2026

DUBLIN, May 25, 2022 /PRNews-wire/ -- The "Global White Inorganic Pigments Market by Product Type (Aluminum Silicate, Calcium Silicate, Calcium Carbonate, Silica, Titanium Dioxide, Zinc Oxide), Application and Region (North America, Europe, APAC, MEA, South America) - Forecast to 2026" report has been added to ResearchAndMarkets.com's offering.

The global white inorganic pigments market size is estimated at USD 22.7 billion in 2021 and is projected to reach USD 29.5 billion by 2026, at a CAGR of 5.4%, between 2021 and 2026.

Growth in the white inorganic pigments market can primarily be attributed to the growing involvement of white in-

organic pigments in the industries like construction, automotive, personal care, industrial sector, and electronic sector among others.

White inorganic pigments are opaque pigments used to provide opacity and lighten other colours are examples of inorganic pigments. Titanium dioxide is the most prominent member of the group. Calcium carbonate, calcium sulphate, diatomaceous silica (marine creature remnants), and china clays are all members of this category. Paints with white extender pigments are used to cut costs and improve the quality of the paint.

High light scattering power, a high degree of hiding power, good tinting

strength, a high degree of brightness, a negligible undertone (ideally none), and a high degree of whiteness are all required from white inorganic pigments. The light scattering power is the most significant attribute, which is determined by the refractive index, particle size and distribution, and paint vehicle dispersion. pigments used to provide opacity and lighten other colours are examples of inorganic pigments.

Titanium dioxide is the largest product type segment of the white inorganic pigments market

The titanium dioxide segment led the market in terms of both value and volume. Titanium dioxide is the most prominent member of the group. Paints



with white extender pigments are used to cut costs and improve the quality of the paint.

Paints & coatings is the largest application segment of the white inorganic pigments market

The paints & coatings application segment led the market in terms of both value and volume. Kraft liner contains at least 80% virgin kraft pulp fibers. Paints with white extender pigments are used to cut costs and improve the qualities of the paint. White inorganic pigments, often known as hidden pigments, are pigments that give light scattering qualities to coatings. Because of their relatively

high refractive index, they scatter all wavelengths of light, making them seem white to the human eye.

Asia Pacific is the largest market for white inorganic pigments market

The Asia Pacific region is projected to be the largest market, in terms of value. Asia Pacific is also expected to grow at the highest CAGR during the forecast period. Growth in APAC is backed by the efficient demand and supply cycle of the paints & coatings, adhesives & sealants, plastics, cosmetics, paper, inks industry majorly in countries like China, India, and Japan among others. A significant bounce back is expected

from the construction and automotive industry and this will drive the market in the area. APAC is also an industrial hub with significantly large market size. Other factors, such as the increasing consumer goods demand, innovation in electronics and other sectors, etc., are expected to support the growth of this regional market during the forecast period.

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

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Pigments Market Size To Reach USD 36.36 Billion In 2030 Due To Rising Demand For Printing Inks From The Packaging Industry Is Driving Market Revenue Growth, Says Reports and Data

NEW YORK, May 25, 2022 / PRNewswire/ -- The global pigments market size is expected to reach USD 36.36 Billion in 2030 and register a revenue CAGR of 5.2% over the forecast period, according to latest report by Reports and Data. Rapid urbanization and increasing investments by governments of various countries across the globe to improve infrastructure are factors expected to drive the pigments market revenue growth. Various countries such as the U.S., the U.K., China, Indonesia, India, Saudi Arabia, and UAE, are major countries exhibiting significant global revenue growth potential in the construction sector, thus creating an increased demand for pigments.

Factors such as rising demand for organic pigment in the pharmaceuticals industry, increasing number of color shades, and rising demand for bio-based paints and coatings are factors

expected to drive the pigments market revenue growth. Additionally, rising demand from developing countries due to rapid industrialization, urbanization, and modernization is further expected to drive market revenue growth during the forecast period.

Furthermore, growing concerns regarding pollution have increased efforts to use recyclable packaging. These paints are non-toxic and safe and are an obvious choice for consumers concerned with environment conservation and protection and therefore expected to drive revenue growth of the market. Another factor driving the industry is increasing purchasing power of consumers and their changing lifestyles. Their interest in innovative and quality products is driving the market revenue growth. With rapid urbanization, competition among the major players is also increasing. This has resulted in

availability of a variety of products in the market, which is further expected to drive pigments market revenue growth during the forecast period. However, factors such as limited availability of raw materials and stringent government regulations are limiting the market revenue growth.

Read the full report : <https://www.reportsanddata.com/download-summary-form/5082>

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



La Roche-Posay Expands Double Repair Moisturizer Line With New Offering For Oily Skin

NEW YORK, May 25, 2022 / PRNewswire/ -- For over 45 years, La Roche-Posay has been committed to making life-changing dermatological skincare accessible by partnering with dermatologists worldwide to offer effective and tolerable skincare.

The brand focuses on innovating safe and effective skincare. With this in mind, La Roche-Posay is excited to introduce the new Toleriane Double Repair Matte Face Moisturizer, a lightweight gel moisturizer explicitly formulated for those with combination to oily skin, sensitive skin.

Despite the thousands of skincare products in the market, more than half of those with oily skin remain searching for the right products suitable for their skin type. 60% of Americans with oily skin report being dissatisfied with the skincare products they use to help control/treat oily skin. This leads 25% of Americans with oily skin to forego a daily moisturizer, generally because they don't like how moisturizers work with their skin type¹.

Acne, pimples and breakouts remain the most common concern for Americans with oily skin¹. There are 17.4 million acne prescriptions prescribed annually²

for this common skin condition. These acne prescriptions can lead to skin side effects and skin barrier disruption. Toleriane Double Repair Matte Face Moisturizer is clinically tested to be well tolerated while using acne prescriptions that can cause dry, sensitive skin.

According to Board Certified Dr. Shari Marchbein, "Because acne is a skin condition with an underlying skin barrier deficiency, dermatologists realize how important skincare is, including gentle cleansers and targeted moisturizers. A common misconception among my patients with oily skin undergoing acne treatments is that one shouldn't be using any form of moisturizer on their already oily skin, as this will aggravate acne. The reality is that using proper moisturizers for oily and acne prone skin is extremely important, not only because they can offset acne treatment side effects such as dryness and irritation, but also because specific hydrating ingredients improve skin barrier function (which is a key component of effective acne treatment)

without affecting the medication."

Toleriane Double Repair Matte Face Moisturizer is formulated with dermatologist recommended ingredients like Ceramide-3 and Niacinamide, and ingredients known to help absorb excess oil and reduce visible shine like Silica and Perlite. This mattifying gel moisturizer delivers a unique dual action that:

1. Helps to restore the skin barrier after 1-hour
2. Provides all-day hydration without shine



La-Roche-Posay has a strict formulation charter that goes beyond international cosmetic regulations. Toleriane Double Repair Matte Moisturizer has undergone rigorous consumer and clinical testing across and all skin tones. The lightweight gel moisturizer demonstrated the ability to reduce visible shine all day, minimize the size of visible pores, improve skin texture, and reduce fine lines³.

Source : PRNewswire

Vipul Organics Hires A Veteran Of Chemicals Industry As Head Of Sales And Marketing

Vipul Organics Limited, the BSE listed (VIPULORG / 530627), leading Specialty Chemicals company in the pigments and dyes segment, today an-

nounced that they have hired a senior Chemicals Industry hand, Mr. Milin Purohit, to head their sales and marketing. The appointment is important as

Vipul Organics is looking at diversifying its products portfolio and focusing on new categories of business.

(Continue on Page 43)



SOLID STATE BATTERY LEADER NATRION SECURES FUNDING FROM SHARK TANK'S MARK CUBAN & OTHER MAJOR BACKERS AS IT PUSHES AHEAD IN DEVELOPMENT

CHAMPAIGN, Ill., May 25, 2022 / PRNewswire/ -- Electric vehicle solid-state battery technology pioneer Natrion today announced it has secured \$2 million in seed funding from high-profile investors, including Mark Cuban of Shark Tank, as it progresses towards prototyping production capabilities. The oversubscribed round was led by Chicago-based TechNexus Venture Collaborative with participation from Tamarack Global, Mark Cuban, Illinois Ventures, and other private investors.

"Natrion's streamlined R&D approach and business model are what really differentiate the company in the battery market. They've already secured major commercial traction in the automotive space and we're looking forward to what they achieve next," said Cuban.

Natrion has developed a patented and proprietary technology called the Lithium Solid Ionic Composite (LISIC). While conventional lithium batteries use highly flammable, low-performance liquid electrolyte components, LISIC is a first-of-its-kind polymer-ceramic hybrid solid electrolyte that drops into existing battery manufacturing lines to replace liquids. LISIC is thus able to improve charging speeds, driving range, longevity, and safety for electric vehicles, and has the potential to significantly benefit an array of other transportation

and defense applications.

Founded in 2018, Natrion has received multiple contracts from the U.S. Department of Defense to further develop its products. The company is also currently in conversations with additional prospective partners across the transportation sector.

"The Natrion technology enables a significant increase in the thermal threshold of the battery, thus reducing fire risk and improving battery durability and cycle life," said Terry Howerton, Co-Founder and CEO of TechNexus Venture Collaborative. "We are excited about the innovation within solid-state electrolytes and view Natrion as a core enabling technology for electrification with the potential to improve the overall functionality of electric vehicles."

This seed round marked the company's first major private capital raise. Prior to this, Natrion secured significant funding from the U.S. Department of Defense, including a \$200,000 Small Business Technology Transfer Research (STTR) contract from the U.S. Naval Air Warfare Center Weapons Division.

With the capital raised, Natrion intends to build out in-house pouch cell prototyping capabilities at its R&D centers in Champaign, IL and Binghamton, NY, which it believes will allow it to rapidly prototype and validate LISIC in full-size cells that mimic those that are used in electric vehicle battery packs. Qualifying LISIC in pouch cells will be Natrion's first step along the path of scale up and, if successful, will help position the company to build out a pilot production line as early as 2023.

"This fundraiser is a huge milestone for us," said Natrion co-founder and CEO Alex Kosyakov. "Having the backing of investors of this caliber has positioned us well to continue to lead the pack and

push the boundaries of what's possible. Over the years we've assembled a stellar core research and development team that will now have all the necessary resources to make Natrion's vision a reality."

Source : PRNewswire

STANDARD MOTOR PRODUCTS INTRODUCES 146 NEW PART NUMBERS

NEW YORK, May 25, 2022 / PRNewswire/ -- Standard Motor Products, Inc. (SMP) announces the addition of 146 new part numbers to its Standard®, Blue Streak®, and Standard Import® lines. SMP's new part number release for May 2022 spans 55 different product categories and includes 38 part numbers for 2021 and 2022 model year vehicles.

SMP continues to expand its ADAS (Advanced Driver Assist Systems) program with the introduction of 17 new Park Assist Cameras, covering more than 8 million vehicles. New Blind Spot



Detection Sensors are now available for popular Ford trucks and SUVs, including the 2013-2011 Explorer, 2012-2011 Edge, 2021-2020 Super Duty and the 2021-2020 Explorer. Additional ADAS (Advanced Driver Assist Systems) products including ABS Speed Sensors and Lane Departure System Cameras are also included in the release.



Standard's turbocharger offering continues to grow with the release of a new Turbocharger Kit for the 2019-2017 Ford Diesel Super Duty. The May release also includes new Turbo-charger Boost Solenoids, Coolant Lines, Oil Drain Tubes, Charge Air Coolers, and Oil Lines helping to make sure technicians have everything they need for a complete turbo repair.

In total, this month's release includes 59 Sensors, Switches, Actuators, and Connectors as Standard® continues to add to its best-in-class coverage for import and domestic vehicles. Featured are Battery Current/Volt Sensors, Accelerator Pedal Sensors, Camshaft and Crankshaft Sensors, Power Door Lock Actuators, and Power Window Switches.

John Herc, Vice President Engine Management Marketing, SMP, stated, "We're pleased to add another targeted group of part numbers to our extensive product offering. As always, Standard® is devoted to continually introducing high-quality, late-model coverage for our distribution partners and loyal service providers."

Source : PRNewswire

**ULTRASENSE SYSTEMS
DEVELOPS TOUCH
SOLUTION FOR DOOR
& CANOPY ENTRY/
CLOSURE SYSTEM IN
ASAHI KASEI'S NEXT
GENERATION CONCEPT**

CAR "AKXY2™"

SAN JOSE, Calif., May 25, 2022 / SPRNewswire/ -- Touch HMI sensor and solution leader, UltraSense Systems and diversified Japanese multinational company, Asahi Kasei announced a collaboration for the development of a door & canopy entry/closure system for Asahi Kasei's Demo Car called the AKXY 2 which will debut at Japan's Automotive Engineering Exposition in Yokohama, Japan from May 25-27, 2022.

Asahi Kasei's AKXY2™ Demo Car is a futuristic look into future mobility based on the evolving needs of our society. True to Asahi Kasei's 100 years of innovation in the material industry, their concept car includes creative new technologies that will add value to OEMs and end car users. These innovations include those from strategic portfolio companies including UltraSense Systems with promising technologies that are actively being adopted by car makers.

The UltraSense Systems entry/closure system is a touch module consisting of its novel multi-mode ultrasound and Z-Force TouchPoint Z sensor along with proprietary algorithms to trigger the opening and closing of the door and canopy lift system. The module is contained in an enclosure with a touch surface of 2mm of aluminum. Both ultrasound and force sensing are used to detect a finger press even with a glove, moisture or surface contaminant. Six access modules are placed around the AKXY2 to for easy entry or opening of the door and/or canopy to view the many Asahi Kasei interior innovations. "We are excited about the adoption and showcasing of our touch solution for the entry/closure system by Asahi Kasei in their latest Demo Car," said Daniel Goehl, Chief Business Officer of UltraSense Systems, "the future of car entry and interior user interfaces are seamless touch interactions. We are well positioned with our multi-mode sensors and proprietary software to provide a scalable

solution for the multitude of automotive use cases."

"We are amidst both a changing society and a revolution of the automotive industry, and the needs of end car users are changing. 'The senses' is a major theme of AKXY2 and I think those who have a chance to experience the vehicle at trade shows will realize how the look of its futuristic design, the touch of the textiles, and the sound-proof atmosphere of the cabin meet these evolving needs," said Masahiro "Masa" Morizumi, Manager of New Business Development, Mobility and Industrial SBU. "The collaboration with UltraSense Systems demonstrates how Asahi Kasei is taking action to incorporate the latest technologies in products today, along with how we support our investment portfolio companies."

Source : PRNewswire

**BASF AND BMW
GROUP RELY ON
RENEWABLE RAW
MATERIALS FOR
AUTOMOTIVE**



- The BMW Group is the first OEM to use BASF paints certified according to the biomass balance approach
- Reducing fossil resources and using more sustainable raw materials minimizes the carbon footprint
- Clearcoat and e-coat avoid around 40% of CO₂ each

The BMW Group is the first carmaker to place its trust in more sustainable automotive OEM coatings certified according to BASF's biomass balance approach. The BMW Group has chosen to use BASF Coatings' CathoGuard® 800 ReSource e-coat at its plants in Leipzig, Germany, and Rosslyn, South Africa, and the iGloss® matt ReSource clearcoat throughout Europe. Using these more sustainable product versions for vehicle coatings enables CO₂ avoidance of around 40% per coating layer; this will reduce the amount of CO₂ emitted in the plants by more than 15,000 metric tons by 2030.

"As the largest provider of chemical products to the automotive industry, we are aware of our responsibility to support our customers with innovative, eco-efficient solutions. The biomass balance approach allows us to make our coatings solutions even more sustainable while retaining the same quality. We are delighted that the BMW Group has chosen to play a pioneering role in the automotive industry and that our products play a key part in helping it achieve its ambitious sustainability goals," said Dr. Markus Kamieth, Member of the Board of Executive Directors of BASF SE.

"By reducing our use of fossil raw materials, we can conserve natural resources and lower CO₂ emissions at the same time. To achieve this, we are increasingly relying on sustainability innovations in our supplier network," said Joachim Post, member of the Board of Man-

agement of BMW AG, responsible for Purchasing and Supplier Network. "Innovative paints based on renewable raw materials are an important step in this direction."

The BMW Group produces an average of around 250,000 vehicles every year at its plants in Leipzig and Rosslyn.

As a corrosion protection technology with optimum protection of edges, the CathoGuard 800 e-coat helps millions of cars live longer. Its biomass-balanced version, CathoGuard 800 ReSource, adds a reduced carbon footprint to the e-coat application's material efficiency, without changing the product's formulation.

In BASF's biomass balance approach, renewable raw materials like bio-based naphtha and biomethane from organic waste are used as raw materials when manufacturing primary chemical products and are fed into the production Verbund. The proportion of bio-based raw materials is then arithmetically assigned to certain sales products according to a certified method. This attribution model is comparable with the principle of green electricity. An independent certification confirms that BASF has replaced the quantities of fossil resources required for the biomass-balanced product sold with renewable raw

materials.

Source : BASF

JIO-BP, MG MOTOR AND CASTROL SIGN PARTNERSHIP TO BOOST ELECTRIC MOBILITY IN INDIA

Mumbai, 2 nd June 2022: In a development that is expected to boost electric vehicle (EV) adoption and mobility in India, MG Motor India and Castrol India are set to collaborate with Jio-bp to explore mobility solutions for electric cars. Under the partnership, Jio-bp, MG Motor and Castrol will explore setting up four-wheeler EV charging infrastructure and expand Castrol's existing auto service network to cater to EV Customers.

The partnership is in line with Jio-bp and MG Motor's commitment to provide a vast and reliable charging infrastructure to electric car customers and accelerating EV adoption in India. Jio-bp is creating an ecosystem that will benefit all the stakeholders in the EV value chain and last year, the company constructed and launched two of India's largest EV charging hubs. The JV's electric mobility business, offering charging infrastructure to Indian consumers, operates under the brand Jio-bp pulse. With the Jio-bp pulse mobile app, customers can easily find charging stations nearby and seamlessly charge their EVs.

Since its inception in India, MG Motor has been committed to Electric Mobility with a vision to build a sustainable future. The strategic partnership is aimed at creating EV-friendly roads for inter-city and intra-city travel by setting up a robust EV charging & service infrastructure in the country. Along with the launch of India's First Pure Electric Internet SUV - the ZS EV which offers



an updated range of 461 km in a single charge, MG has taken multiple steps towards strengthening the EV ecosystem.

Under the partnership, Castrol will develop and expand its existing multi-brand Auto Service network and Express Oil Change centers to start serving four-wheeler electric cars. These services will be offered across India at both Jio-bp mobility stations as well as select Castrol Auto Service workshops initially, to serve both EV and non-EV four-wheelers. Further, Castrol will help set up EV charging infrastructure across its auto service network. With rising EV adoption, car mechanics will require training on the latest automotive technologies. Castrol will leverage its access to a vast pool of car mechanics and offer them specialized EV training and certification.

Source : Reliance Industries

SK LUBRICANTS LAUNCHES A PROMOTIONAL EVENT FOR THE CARGO TRUCK ENGINE OIL THAT ENHANCES MILEAGE AND PROTECTS THE DPF

- From June 1 to September 30, SK Lubricants will give out free fuel

coupons to those who visit ZIC PRO authorized shops and change their engine oil with X9000 and X7000.

SKL's leading eco-friendly super-low-viscosity lubricants improve mileage, protect the engine, and conserve the environment by protecting the DPF.

- "We will continue striving to develop and produce eco-friendly products that increase mileage, work hard to lower the economic burden of the consumers, and reduce environmental pollution."

SK Lubricants will launch a promotional event for their eco-friendly lubricants SK ZIC X9000 and X7000 engine oil. The event will last for four months, from June 1 to September 30. The company prepared this event to inform the consumers of its newly released engine oil. The new products effectively increase the travel mileage and protect the Diesel Particulate Filter (DPF) from harm. These products are SK ZIC X9000 5W-30 CK-4 and X7000 10W-30 CK-4. They are leading eco-friendly lubricant products with super low viscosity and are mainly used as engine oils for huge cargo trucks.

* DPF (Diesel Particulate Filter): A device designed to reduce exhaust emissions

Cargo truck drivers can visit the ZIP PRO authorized shops in the country during the period to exchange their engine oils with SK ZIC X9000 5W-30 CK-4 and X7000 10W-30 CK-4 products to receive free SK fuel coupons worth KRW 20,000 and KRW 10,000. Currently, those that are mostly used in the market are engine oils with high viscosity that protect the engine from the rough and long travels of cargo trucks. However, the higher the viscosity is, the mileage becomes lower. SK Lubricants successfully worked to develop an engine oil that solves the problem. With its excellent technologies, the company

was able to develop the super-low-viscosity engine oil that increases driving mileage while protecting the engine from damage.

The vehicle test of the products was held in cooperation with Hanjin last year, wherein its parcel delivery trucks used SK Lubricants' products. As a result, the performance increased on average by 3.1% for the X9000 5W-30 compared to the company's existing product, 15W-40 CJ-4. As for the X7000 10W-30 CK-4, the mileage was increased by 2.5% on average. This means that the 11-ton cargo trucks that have an annual travel distance of 130,000 km can save the fuel cost of up to *KRW 1.96 million (approximately USD 1,500) using the X9000 5W-30.

* The calculation is based on the diesel price last March 2021 uploaded on the Korean Statistical Information Service (KRW 1,826/L).

An official from SK Lubricants said, "X9000 and X7000 excellently protect the truck engines. Not only that, they're friendly to the environment by protecting the DPF and reducing exhaust emissions." He added that the company will continue to strive down the road to develop and release green products that ensure high mileage, lessen the economic burden of the consumers, and reduce pollution.

Source : SK Innovation



MESSER HELPS HEALTHCARE FACILITIES PREPARE FOR FUTURE MEDICAL OXYGEN CHALLENGES AT ASHE 2022

BRIDGEWATER, N.J., May 25, 2022 /PRNewswire/ -- Following skyrocketing demand for medical oxygen during the COVID-19 pandemic, healthcare facilities are adjusting to their "new normal" oxygen consumption rates and considering upgrades to their oxygen supply infrastructure. At the 2022 American Society for Health Care Engineering (ASHE) Annual Conference and Technical Exhibition in Boston on July 20 at 8:15 a.m., Messer will join a panel of experts to discuss "Medical Oxygen Systems: Design, Infrastructure and Capital Planning."

The session will equip healthcare engineers with the fundamentals for a code-compliant medical oxygen supply system, tools to evaluate their existing systems, and strategies for obtaining capital budget approval. The attendees will hear from:

- Christopher Tamulonis, MSA, MSOM, CHFM, CHC, Senior Director, Facilities Management for Lenox Hill Hospital – Northwell Health
- David A. Blackner, P.E., Vice President, H. F. Lenz Company
- Jeff L. Jarvis, Medical Gas Specialist, H. F. Lenz Company and
- Donald E. Smiley, Director of Healthcare, Messer

In addition, Messer will showcase how to improve the security of oxygen supply

at ASHE Booth 1314, July 17-20. Messer healthcare team will highlight its:

- Vast production and distribution network with 24/7 remote monitoring



- Quick service response during demand surges or natural disasters
- Comprehensive Design, Build, Provide platform that delivers NFPA-compliant bulk medical gas installations from plant to patients

Source : PRNewswire

SERVIER ANNOUNCES FDA APPROVAL OF TIBSOVO® (IVOSIDENIB TABLETS) IN COMBINATION WITH AZACITIDINE FOR PATIENTS WITH NEWLY DIAGNOSED IDH1-MUTATED ACUTE MYELOID LEUKEMIA

BOSTON, May 25, 2022 /PRNewswire/ -- Servier, a leader in oncology

committed to bringing the promise of tomorrow to the patients we serve, today announced that the U.S. Food and Drug Administration (FDA) approved TIBSOVO® (ivosidenib tablets) in combination with azacitidine for the treatment of patients with newly diagnosed IDH1-mutated acute myeloid leukemia (AML) in adults 75 years or older, or who have comorbidities that preclude use of intensive induction chemotherapy. TIBSOVO is the first therapy targeting cancer metabolism approved in combination with azacitidine for patients with newly diagnosed IDH1-mutated AML. The AGILE trial was the only Phase 3 trial designed specifically for newly diagnosed patients with IDH1-mutated AML who are ineligible for intensive chemotherapy.

The supplemental New Drug Application (sNDA) for TIBSOVO received Priority Review and was reviewed by the FDA under its Real-Time Oncology Review (RTOR) pilot program, which aims to ensure that safe and effective treatments are available to patients as early as possible.

"Today's approval builds on the established body of evidence for TIBSOVO, which is now approved across multiple IDH1-mutated cancer types," said David K. Lee, Chief Executive Officer, Servier Pharmaceuticals. "As a leader in oncology pioneering the science behind targeted IDH inhibition, we are proud to bring a new therapeutic option to the acute myeloid leukemia community and remain committed to pushing the boundaries of healthcare innovation in oncology and beyond."

The expanded approval of TIBSOVO is supported by data from the AGILE study, a global, Phase 3 trial in patients with previously untreated IDH1-mutated AML. Results from the AGILE trial demonstrated a statistically significant improvement in event-free survival (EFS) (hazard ratio [HR] = 0.35 [95% CI



0.17, 0.72], 2-sided p-value = 0.0038)² and overall survival (OS) (HR = 0.44 [95% CI 0.27, 0.73]; 2-sided p = 0.0010). TIBSOVO plus azacitidine treatment resulted in a threefold improvement in median OS (24 months) compared to placebo plus azacitidine (7.9 months) as a first-line treatment for IDH1-mutated AML. Results from the AGILE study were presented at the 2021 American Society of Hematology (ASH) Annual Meeting and Exposition, and recently published in the New England Journal of Medicine (NEJM).

"Acute myeloid leukemia is a rapidly progressing, difficult-to-treat blood cancer with a poor prognosis," said Eytan M. Stein, M.D., Director, Program for Drug Development in Leukemia, Leukemia Service, Department of Medicine at Memorial Sloan Kettering Cancer Center. "In addition to a favorable safety profile, TIBSOVO is the first therapy targeting cancer metabolism to demonstrate an impressive, significant benefit in event-free survival and overall survival in combination with azacitidine, underscoring its importance as part of a new combination regimen for patients with newly diagnosed IDH1-mutated acute myeloid leukemia who are not candidates for intensive induction chemotherapy."

AML is a difficult-to-treat cancer of the blood and bone marrow and is one of the most common types of leukemia in adults with approximately 20,000 new cases estimated in the U.S. each year.^{3,4} IDH1 mutations are present in about 6 to 10 percent of AML cases.⁵

"People living with acute myeloid leukemia, especially those who are newly diagnosed and are not eligible for intensive chemotherapy, have had few treatment options," said Susan Pandya, M.D., Vice President Clinical Development and Head of Cancer Metabolism Global Development Oncology & Immuno-Oncology, Servier. "Today's approval of TIBSOVO in combination with azacitidine represents a major advancement for patients with newly diagnosed IDH1-mutated acute myeloid leukemia in the United States, and we look forward to continuing our engagement with regulatory authorities worldwide."

The combination of TIBSOVO plus azacitidine demonstrated a safety profile consistent with previously published data. The most common adverse reactions (≥10%) in newly diagnosed AML patients receiving TIBSOVO in combination with azacitidine were nausea, vomiting, electrocardiogram QT prolonged, insomnia, differentiation syndrome, leukocytosis, hematoma, hypertension, arthralgia, dyspnea, and headache. The select laboratory abnormalities (≥10%) were leukocytes decreased, platelets decreased, hemoglobin decreased, neutrophils decreased, lymphocytes increased, glucose increased, phosphate decreased, aspartate aminotransferase increased, magnesium decreased, alkaline phosphatase increased, and potassium increased.

The recommended dosage of TIBSOVO for newly diagnosed IDH1-mutated AML is 500mg once daily via oral administration.

In an effort to support the patient communities it serves, Servier Pharmaceu-

ticals recently introduced ServierONE Patient Support Services, a program that offers one-on-one support to help patients who are prescribed TIBSOVO or other Servier products navigate their cancer journey. Eligible patients will have access to financial assistance, emotional support and other resources. More information can be found at www.servierone.com.

TIBSOVOi is also approved in the U.S. as monotherapy for the treatment of adults with IDH1-mutant relapsed or refractory AML, and for adults with newly diagnosed IDH1-mutated AML who are ≥75 years old or who have comorbidities that preclude the use of intensive induction chemotherapy. Last year, TIBSOVO garnered its first approval in a non-hematologic malignancy for patients with previously treated IDH1-mutated cholangiocarcinoma.

Source : PRNewswire

AIRNOV TO SHOWCASE ITS RANGE OF HEALTHCARE PACKAGING SOLUTIONS TO INDIAN MARKET AT INNOPACK PHARMA CONFEX

- Large range of industry-leading and sustainable solutions are available to pharmaceutical packaging producers
- Airnov's laser-marked canisters, rimless packets, washers, EQius™ and vials will be exhibited at key industry event
- Innopack Pharma Confex to be held in Mumbai on June 9-10, 2022



May 23, 2022 – Airnov Healthcare Packaging, a global leader in controlled atmosphere packaging, will be presenting a large portfolio of solutions available to customers in India at the upcoming Innopack Pharma Confex, scheduled to take place in Mumbai on June 9-10.

Now in its 11th edition, the event is India's largest gathering of pharmaceutical packaging stakeholders, with this year's theme being 'Innovation and Sustainability paving the Way Forward'.

Airnov has been at the forefront of sustainable healthcare packaging innovation for many years.

At the event, the company will be showcasing a wide range of products, many of which offering sustainability gains to packaging producers.

These include sustainable rimless packs which are welded together using un-

coated Tyvek® and offer greater moisture absorbing capacity, while at the same time cutting raw materials usage by 25%. Meanwhile, Airnov's laser-marked desiccant canisters reduce risk of contamination while eliminating the need for print and paper labels.

"Most of our product developments and innovations are geared towards sustainability activities, and we are excited to be demonstrating some of those innovations at the upcoming Innopack event in Mumbai," comments Shrikar Trikanad, Airnov's Head of Sales for India.

Also being showcased at Innopack are a range of desiccant washers and EQius™ Equilibrium RH Stabilizers, the latter being sorbent products which maintain a specific moisture level in pharmaceutical packaging.

Visitors to Innopack will additionally be able to explore Airnov's latest innovation in its vial range of products in the

form of HAT®-IN, designed to protect diagnostic and nutraceutical products. The vial, which is easily integrated into automated filling lines, utilizes and integrates the company's advanced desiccant polymer (ADP) technology to provide a high moisture barrier, as well as excellent moisture adsorption.

"We are also excited to showcase our Aroma-Can® canisters," added Nicolas Martinez, Product Manager at Airnov. "These employ aroma technology to add an aromatic sensory experience, either to mask unwanted odors or enhance a product's natural aroma"

Source : Chemical Market

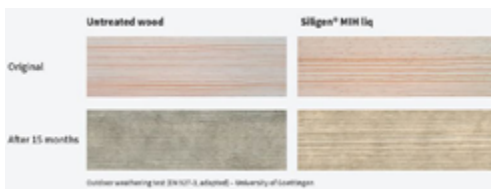
CHEMICAL TECHNOLOGY

ARCHROMA INTRODUCES NEW BIOCIDE-FREE WOOD PROTECTION TECHNOLOGY SILIGEN® MIH LIQ DEVELOPED WITH UNIVERSITY OF GOETTINGEN (NEW PRODUCT/CHEMICAL TECHNOLOGY/ INTERNATIONAL)

Pratteln, Switzerland, 30 May 2022 - Archroma, a global leader in specialty chemicals towards sustainable solutions, introduces a Siligen® MIH liq, a new biocide-free wood protection technology developed together with the University of Goettingen, Germany.

Being a natural raw material, wood evolves over time, and that's what makes it so unique and beautiful. At the same time, it is a precious, sustainable and carbon-storing resource that should not be wasted. Wood is especially sensitive to climate conditions, in particular moisture, as well as fungi, termites and marine organisms. Over time, these can alter the wood strength, stability and durability. Most treatments used to protect wood are based on biocides and

can contain potentially toxic substances such as heavy metals. Archroma and the University of Goettingen, Germany therefore decided to explore a solution to extend the life duration of outdoor wood materials, but also their appearance.



The result:
Siligen®
MIH liq, a
non-bio-
c i d a l
w o o d

modification treatment to create more stable and durable solid woods, veneers and wood-based composites for applications such as windows, facade claddings, outdoor furniture, terrace decking, in-ground platforms, parquet flooring and marine applications.



It is applied by impregnation and subsequent drying. Siligen® MIH liq impregnated wood can be dried and the molecules fixated at < 80 °C with an equipment already available at most production facilities applying conventional biocides. The energy consumption is thus similar to most aqueous biocidal wood preservative treatments.

Wood treated with Siligen® MIH liq shows excellent protection against decay fungi. Treated wood displays improved weathering performance and keeps its natural appearance with less discolorations and change in feel.

Siligen® MIH liq will be introduced at the Annual Conference of the International Research Group on Wood Protection (IRG WP) IRG53 conference in Slovenia taking place on 29 May to 2 June, 2022 in Bled, Slovenia.

Prof. Holger Militz, Head of the Department of Wood Biology and Wood Products at the University of Göttingen, Germany, adds: “Our research has been focusing for many years on the development of new wood protection systems. With Siligen® MIH we explored a system where the wood is protected against fungi and termites without the need of complicated treatment technology. Existing vacuum and pressure plants and normal wood dryers are sufficient to use this new technology.”

Miquel Vila, Global Head of New Markets at Archroma, comments: “We are very excited to collaborate with

like-minded partners such as the University of Goettingen. The new biocide-free wood protection technology Siligen® MIH liq is a great illustration of “The Archroma Way to a Sustainable World: Safe, efficient, enhanced, it’s our nature.”

Source : Chemical Market

INTERNATIONAL CONSORTIUM TO ADVANCE DECARBONISATION OF THE AVIATION SECTOR

Johannesburg, South Africa – Sasol (JSE: SOL, NYSE SSL) and Helmholtz-Zentrum Berlin (HZB) will lead a consortium to develop and optimise next-generation catalysts that will play a key role in decarbonising the aviation sector through sustainable aviation fuels (SAF).

At a ceremony at Sasol’s global headquarters in Johannesburg today, South African President Cyril Ramaphosa and German Chancellor Olaf Scholz attended the launch of CARE-O-SENE (Catalyst Research for Sustainable Kerosene) research project, to be funded by the German Federal Ministry of Education and Research (BMBF) and Sasol.

Sasol joins forces with five other world-leading organisations in Germany and South Africa to accelerate the development of catalysts that are essential to produce green kerosene on a commercial scale through Fischer-Tropsch (FT) technology.

“We are delighted to have been selected to lead this important project,” said Fleetwood Grobler, President and Chief Executive Officer of Sasol Limited. “Our expertise in FT technology and catalysts makes us the ideal partner to help Germany and the world decarbonise the

aviation sector and make it sustainable over the long-term.”

Prof. Dr. Bernd Rech, Scientific Managing Director of HZB adds, “CARE-O-SENE will enable us to accelerate innovation in a crucial field of green energy. This can only be achieved in a global partnership by deeply integrating fundamental research and technology development on an industry relevant scale.”

Other CARE-O-SENE project partners include the Fraunhofer Institute for Ceramic Technologies and Systems (IKTS), the Karlsruhe Institute of Technology (KIT), the University of Cape Town, Department of Chemical Engineering (UCT) and INERATEC GmbH. The consortium expresses its sincere gratitude to the German Federal Ministry of Education and Research for supporting these important efforts.

CARE-O-SENE will run for three years and pursues the goal of setting the course for large-scale commercialisation of green kerosene production by 2025 with its research on catalysts. Catalysts are used to speed up chemical reactions, increase the yield and improve the quality of refined products. The new FT catalysts are expected to increase the fuel yield of the process to over 80 percent, thereby optimising use of resources.

Unlike conventional kerosene derived from fossil feedstocks, SAF can be made from green hydrogen and sustainable carbon dioxide sources. Developing SAF is key to a sustainable decarbonisation of the hard-to-abate aviation industry, and the main lever for net zero aviation. The underlying technology to developing SAF at scale from green hydrogen and sustainable carbon sources is FT technology, in which Sasol has been a global leader for more than 70 years.

Source : Sasol



SABIC LAUNCHES NEW UPCYCLED LNP™ ELCRIN™ IQ RESIN MADE WITH OCEAN- BOUND PLASTIC WASTE TO HELP REDUCE POLLUTION AND SUPPORT CIRCULARITY (NEW PRODUCT)

SABIC, a global leader in the chemical industry, today introduced LNP™ ELCRIN™ WF0061BiQ resin, a novel material that uses ocean-bound polyethylene terephthalate (PET) bottles as a feed stream for chemical upcycling into polybutylene terephthalate (PBT) resin. Ocean-bound plastic is mismanaged waste that originates within 30 miles (50 km) of the coast and is likely to end up in the ocean. The new grade is the latest addition to SABIC's extensive portfolio of chemically upcycled LNP ELCRIN iQ materials, which help support circularity while serving as potential drop-in replacements for virgin PBT resins. LNP ELCRIN WF0061BiQ resin is a candidate for consumer electronics applications such as fan housings in computers and automotive seating, as well as electrical connectors and enclosures.

"We're continually expanding our LNP ELCRIN iQ portfolio – and the PET waste streams used to produce these materials – to help divert more plastic from the oceans while helping our customers incorporate recycled materials in their products, achieve their carbon neutrality goals and meet consumer demands for greater sustainability," said Sanjay Mishra, GM Technology & Foot-

print, Specialties, SABIC. "Within the next decade, we anticipate upcycling 10 billion plastic bottles into higher-performing, durable materials that deliver enhanced value to customers. SABIC is committed to working with the plastics supply chain to find new solutions to address urgent environmental issues such as reducing ocean-bound plastic waste and achieving net zero carbon emissions."

CIRCULARITY WITHOUT COMPROMISING PERFORMANCE

The new LNP ELCRIN WF0061BiQ grade, a glass fiber-reinforced PBT material, features non-brominated, non-chlorinated flame retardancy meeting the UL94 V0 standard at 0.8mm and F1 rating. It also delivers excellent heat resistance, toughness and stiffness, and high flow well-suited for molding thin-wall applications for outdoor environments such as electrical equipment enclosures.

All LNP ELCRIN iQ materials can serve as possible drop-in replacements for conventional PBT to help manufacturers increase the sustainability of end products. SABIC's proprietary upcycling technology, which involves the repolymerization of ocean-bound PET into PBT, delivers virgin-like performance properties. This process surpasses mechanical recycling in quality and consistency.

"According to an internal life cycle analysis conducted in accordance with ISO 14040/14044 protocols, LNP ELCRIN WF0061BiQ compound can offer potential reductions of up to 14% in carbon footprint and

up to 25% in cumulative energy demand, when compared to the virgin PBT compound reinforced with glass fiber," said Darpan Parikh, Americas Customer Fulfillment Leader, Specialties, SABIC. **"By replacing virgin material with our resins, customers can help reduce environmental impacts by reusing plastic waste and eliminating halogenated additives."**

In addition to SABIC's new LNP ELCRIN WF0061BiQ resin, based on ocean-bound PET bottles, the company has introduced many different and innovative grades to the LNP ELCRIN iQ portfolio, including glass- and mineral-reinforced products and flame-retardant formulations. For example, SABIC's new LNP ELCRIN WF006XXPiQ and LNP ELCRIN WF0061XPiQ compounds incorporate pre-consumer re-

cycled glass fiber diverted from the waste stream of industrial processes. The use of recycled glass fiber further enhances the circularity of these upcycled PBT materials. The diversity of these

formulations enables LNP ELCRIN iQ resins to be considered for applications beyond electrical and electronics components, such as automotive exterior parts, healthcare applications and personal care products.

SABIC is not only creating sustainable materials but also regularly formulating new resins and compounds using environmentally responsible and safer chemistries, such as non-brominated/non-chlorinated flame retardants. According to the GreenScreen for Safe Chemicals benchmark rating, which was created by the non-profit organi-



zation Clean Production Action (CPA), these SABIC materials, and others in development, are, or will be, recognized with a score of 3 or higher, out of 4. Benchmark 3 is a relatively better result compared to that of average products and indicates only a slight concern.

Source : Sabic

SUMITOMO CHEMICAL AND NEWLIGHT TECHNOLOGIES ANNOUNCE JOINT DEVELOPMENT PROJECT TO CREATE AUTOMOTIVE AND TEXTILE MATERIALS USING A CARBON- NEGATIVE*1 MICROBE-PRODUCED BIOMATERIAL CALLED AIRCARBONTM

Sumitomo Chemical Co., Ltd. and U.S.-based Newlight Technologies, Inc. have started the joint development of polypropylene (PP) compounds*2 for use in automobiles and textile applications using a carbon-negative biomaterial produced by microorganisms from methane called AirCarbonTM.

Methane is said to have a greenhouse effect approximately 25 times greater than that of carbon dioxide, and its reduction is crucial to effectively curb global warming. The 26th United Nations Climate Change Conference (COP26) in 2021 launched an international framework aimed at reducing methane emissions.

The Sumitomo Chemical Group, as a globally-operating chemical manufacturer, is advancing initiatives to achieve carbon neutrality by 2050 on the two fronts of its self-imposed obligation to bring the Group's greenhouse gas (GHG) emissions close to zero and its contributions to global GHG emissions reduction through the Group's products and technologies. In particular, in the area of automotive materials, where high quality and lower environmental impact are required, Sumitomo Chemical manufactures and supplies high-performance PP compounds and products made from recycled materials for the world's leading car manufacturers.

Newlight Technologies is a company headquartered in California, the U.S., that has successfully developed the world's first commercialized biomaterial made from methane as a carbon source (product name: AirCarbonTM) through its proprietary research utilizing methanotrophs*3, microorganisms that exist in nature that metabolize methane. Third-party organizations*4 have certified that the carbon footprint of AirCarbonTM is significantly negative when produced using renewable sources of energy for electric power. Newlight Technologies started the operation of the world's first commercial-scale manufacturing plant for AirCarbonTM in 2020, and has been supplying the biomaterial to a wide variety of customers. In this joint development project, Newlight Technologies will develop new grades of AirCarbonTM suitable for use in automotive and in textile applications, sourcing methane emissions captured and recovered from coal mining, agricultural, and industrial operations as the starting point for its production process. Sumitomo Chemical, leveraging its resin design and processing technologies cultivated over many years, will develop new compounds made from resins developed by Newlight Technologies and PP, with the aim of creating materials for automotive bumpers and interiors with equivalent quality and lower environmental impact

as compared with conventional PP compounds, as well as materials for textiles that can be dyed, which has been difficult with conventional PP compounds but which can be improved through the use of AirCarbonTM. Sumitomo Chemical and Newlight Technologies will work together to contribute to creating a carbon-neutral society by providing various industries with products created through the combination of each other's technologies.

Sumitomo Chemical will continue to actively promote open innovation with a range of stakeholders and accelerate the development of new products and technologies that help resolve societal problems.

Noriaki Takeshita, Representative Director and Senior Managing Executive Officer, Sumitomo Chemical: “Our PP compounding business is actively promoting the use of recycled PP to contribute to building a circular economy. By leveraging AirCarbonTM from Newlight Technologies, we will provide carbon-negative PP compounds to our customers.”

Mark Herrema, Chief Executive Officer, Newlight Technologies: “The mission of AirCarbonTM is using nature-based solutions to create decarbonization at scale, and our work with Sumitomo helps us move closer to that goal. We are excited to team up with Sumitomo and look forward to seeing applications on the market that help automotive partners meet their carbon reduction goals.”

Source : Sumitomo Chemical



SOLVAY AND CARBIOS DEMONSTRATE ENZYMATIC DEPOLYMERIZATION IN PET/PVDC BARRIER FILM

Solvay and Carbios successfully demonstrated that multi-layer PET1 films coated with Diofan® PVDC2 high-barrier polymer are fully compatible for enzymatic depolymerization - Carbios' innovative recycling process. Results show that the PET is fully depolymerized, whereas the PVDC remains intact.

Carbios is the first company to have developed enzymatic processes dedicated to the end-of-life of plastics and fibers. The collaboration builds upon the results of an earlier proof of concept by Solvay which has confirmed that waste from packaging or other applications using bi-oriented PVDC multi-layer film can efficiently be recycled without compromising the outstanding barrier performance of the polymer. It aligns with Solvay One Planet's sustainability ambition to preserve resources and contribute to safer, cleaner and more sustainable products.

The patented recycling process developed by Carbios works with specific enzymes to break down the PET molecules back into their constituent monomers. The technology uses moderate temperatures, which is ideal in the presence of PVDC, and can be applied to recycle post-industrial as well as post-consumer waste. The resulting monomers could be purified for reuse in the production of a new PET polymer of the same quality as those derived from virgin petrochemical feedstock. Notably, the joint study by

Solvay and Carbios has demonstrated that PVDC does not jeopardize the depolymerization of PET.

"OEMs and brand owners are under tremendous pressure to increase the sustainability of their products," says Guruprasad Sivakumar, Head of Marketing for Consumer, Healthcare and Environment at Solvay. "While PVDC has long been used for coating flexible PET films e.g. in food packaging, where it delivers impressive barrier properties, these multi-layer structures have been challenged regarding their recyclability. This is where Carbios' unique recycling technology comes as a real game changer. By providing a feasible and sustainable end-of-life management solution, it can help the industry close the loop on PVDC-coated PET films and extend the value proposition of our high-barrier specialty polymers to further markets, such as the packaging of pharmaceutical products."

"Our enzymatic approach overcomes the limitations of other recycling processes," explains Alain Marty, Chief Scientific Officer at Carbios. "Conventional thermo-mechanical routes require clean-mono-material grade waste, and high-heat chemical or pyrolytic recycling cannot be used to regain the material value still present in many end-of-life applications. As the industry's first solution for the recycling of complex multi-layer structures such as PVDC coated PET films, our enzymatic biological recycling makes a significant contribution to help the plastics economy become more circular. The joint study with Solvay also shows what can be achieved by collaborating towards a common goal - to the benefit of all players along the value chain."

Solvay's Diofan® and Ixan® high-barrier polymers have a track record of proven food packaging applications from fresh and processed meat to fish, poultry and cheese. They provide a superior barrier against the permeation of both water vapor and oxygen - most existing alternatives only meet one or the other purpose - as well as to odors and loss of aroma or flavor.

Source : Solvay

LANXESS AND ADVENT INTERNATIONAL ESTABLISH A LEADING GLOBAL JOINT VENTURE FOR HIGH-PERFORMANCE ENGINEERING POLYMERS

- LANXESS and Advent to acquire Engineering Materials business from DSM for a purchase price of around EUR 3.7 billion
- LANXESS to transfer High Performance Materials business into joint venture
- LANXESS to receive a payment of at least EUR 1.1 billion and a stake of up to 40 percent in the joint venture
- LANXESS will use proceeds to reduce debt and plans to buy back shares
- New joint venture with pioneering product portfolio and integrated value chain

Specialty chemicals company LANXESS and Advent International ("Advent"), one of the largest and most ex-



perienced global private equity investors with a well established track record in chemicals investments, are establishing a joint venture for high-performance engineering polymers. The two companies today signed an agreement to acquire the DSM Engineering Materials business (DEM) from Dutch group Royal DSM, which will become part of the new joint venture. The purchase price is around EUR 3.7 billion and will be financed by the joint venture via equity from Advent and external debt. The business represents sales of around EUR 1.5 billion with an EBITDA margin of approximately 20 percent. DEM is one of the leading global suppliers in high-performance specialty materials that address key market needs in electronics, electrical and consumer goods.

In addition, LANXESS will contribute its High Performance Materials (HPM) business unit to the joint venture. HPM is one of the leading suppliers of high-performance polymers, which are used primarily in the automotive industry. The business represents annual sales of around EUR 1.5 billion with EBITDA pre exceptionals of around EUR 210 million. Advent will hold at least 60 percent in the joint venture. LANXESS will receive an initial payment of at least EUR 1.1 billion and a stake of up to 40 percent in the future joint venture. Following the transfer to the joint venture, the HPM business will no longer be fully consolidated at LANXESS, but will be included in the consolidated financial statements at equity.

This move further sharpens LANXESS' business portfolio, which will consist of three specialty chemicals segments once the transaction is completed. LANXESS will use the proceeds of the transaction to reduce debt and to strengthen its balance sheet. In addition, the Group plans a share buy-back program with a volume of up to EUR 300 million. LANXESS will have the possibility to divest its stake in the joint venture to Advent at the same valuation earliest after three years. EBITDA could then be signifi-

cantly higher than today as Advent and LANXESS anticipate substantial synergies resulting from the combination of the two businesses. The transaction is still subject to approval by the authorities. Closing is expected in the first half of 2023.

LANXESS CEO Matthias Zachert: "LANXESS will once again become significantly less dependent on economic fluctuations. In addition, we as LANXESS will strengthen our balance sheet with the proceeds from the transaction and gain new scope for the further development of our Group. With the new joint venture, we are forging a strong global player in the field of high-performance polymers. The portfolios, value chains and global positioning of the two businesses complement each other perfectly. With its innovative products, the joint venture will be able to play a key role in shaping future developments - for example in the field of electromobility. In Advent, we have a strong and reliable partner with profound experience in the chemical industry and our customer industries."

Ronald Ayles, Managing Partner at Advent International: "Joining forces with LANXESS in this industry transforming transaction is a highlight for Advent as we have built a trusted, long standing relationship and share the highest mutual respect. Together we plan to bring the experience, deep sector know-how, and financial resources to make the joint venture a global success story for everyone involved. The combination of LANXESS' High Performance Materials (HPM) and DSM Engineering Materials (DEM) creates a strong platform and brings together extensive expertise, resulting in the best opportunities for employees and more value for customers."

Global set-up and high backward integration : DSM's Engineering Materials business comprises polyamides (PA6, PA66) as well as various specialty materials (PA46, PA410 and specialty polyesters as well as PPS). Around 2,100

employees work for the division at 8 production and 7 research sites in all relevant markets worldwide. In addition to Europe and the US, the business has a particularly strong presence in Asia. LANXESS' High Performance Materials (HPM) business unit is one of the leading producers of PA6 and PBT engineering polymers and thermoplastic fiber composites. A total of 1,900 employees at 10 production and 7 research sites worldwide work for HPM. The global production network is characterized by a high degree of backward integration. The backbone is the Antwerp/Belgium site. There, HPM produces not only PA6 polymers but also relevant precursors such as caprolactam and glass fibers.

Sustainable product portfolio : Both DEM and HPM are pioneers in sustainability, offering bio- and recycled-based alternatives across their product portfolios. For example, LANXESS recently launched a new high-performance polymer that is made from 92 percent sustainable raw materials. In producing the polymer, LANXESS uses "green" cyclohexane from sustainable sources such as rapeseed oil or other biomass as a raw material. It is reinforced with 60 percent by weight glass fibers recycled from industrial glass waste.

Future-oriented applications : The automotive industry is a focus customer sector for the new joint venture. There, the polymers are used, among other things, for lightweight elements in structural parts but also in the interior and often replace metal parts. In this way, weight can be saved and CO2 emissions reduced. An important growth area is electromobility. Here, polymers are used, for example, in the construction of battery and charging systems, electronic control systems and power electronics.

In addition, the materials are used in the electrical and electronics industry, for example in components for smartphones, IT and household appliances.

Source : Lanxess



UNIVAR SOLUTIONS AND ANGUS EXPAND DISTRIBUTION AGREEMENT IN EUROPE TO INCLUDE THE HOMECARE & INDUSTRIAL CLEANING MARKET

ROTTERDAM, Netherlands, May 25, 2022 /PRNewswire/ -- Europe, Univar B.V., a subsidiary of Univar Solutions Inc. (NYSE: UNVR) ("Univar Solutions" or "the Company"), a leading global commodity and specialty chemical and ingredient distributor and provider of value-added services, announced the expansion of its distribution agreement with ANGUS Chemical Company ("ANGUS"), a leading global manufacturer of specialty chemicals for life sciences, home and personal care and industrial markets, to include the pan-European Homecare & Industrial Cleaning (HIC) market. This agreement will further enable Univar Solutions to provide its customers with expanded access to specialty cleaning ingredients alongside comprehensive technical innovation and sourcing support.

Univar Solutions customers across Europe now have access to ANGUS' specialty additives, such as AMP™ (amino-methyl propanol) and TRIS AMINO™ Crystals (tromethamine), which are designed to improve the performance, safety profile and stability of cleaning products, even in the most demanding applications. Under the expanded agreement, Univar Solutions will also offer ULTRA PC™-grades of ANGUS amino alcohols for homecare and industrial cleaning customers who seek

low secondary amine content.

"At Univar Solutions, we support homecare and industrial cleaning manufacturers around the globe through a hub-and-spoke model of Solution Centers offering prototyping, trend kits, performance and raw material evaluations and formulation as well as technical assistance," said Aaron Lee, global vice president for Homecare & Industrial Cleaning at Univar Solutions. "With a vast portfolio of materials from some of the world's premier specialty and core product suppliers, Univar Solutions can help develop better performing and sustainable solutions for laundry detergents, glass cleaners and other unique applications; this agreement will further help and support supply chains and product development across Europe."

The agreement expands Univar Solutions relationship with ANGUS, which today serves customers in the Beauty & Personal Care (BPC) and Coatings, Adhesives, Sealants & Elastomers (CASE) and Rubber & Plastic Additives markets. ANGUS offers a unique portfolio of globally registered amino alcohol additives that meet complex HIC formulating requirements and that complement Univar Solutions' expansive offering of specialty ingredients and solutions.

"Our portfolio of specialty additives combines superior performance with visible, measurable benefits in a wide range of end uses,



from dish, fabric and pet care to heavy-duty surface cleaning," said Liam Doherty, senior vice president - Europe, Middle East, Africa and India for ANGUS Chemical Company.

"We are excited to expand our existing agreement with Univar Solutions and their broad network and deep expertise in homecare and industrial

cleaning applications to better serve formulators and manufacturers across Europe that are using ANGUS chemistries."

Univar Solutions and its team of scientists, formulation experts and application specialists help keep communities healthy, fed, clean and safe by contributing to the development and supply of more sustainable cleaning products. As consumers increasingly demand more sustainable product formulations with exceptional performance, our team of experts across a network of global Solution Centers work on helping to improve time to market, solve problems and deliver ingredient innovation through human ingenuity.

Source : PRNewswire

**OVESTRO LAUNCHES
A NEW PRODUCTION
LINE FOR DESMODUR®**



15 PREPOLYMERS

Covestro launches the production of Desmodur® 15 prepolymers at its Spanish site of Barcelona. With this new production line, the company addresses the growing demand for its high-performance elastomers and can serve an ever wider range of very demanding applications.



"With this strategic investment, Covestro aims to further enlarge the capacity and improve the reliability of its global supply of Desmodur® 15 based products," says Philip Bahke, Head of Operations at Covestro Elastomers.

"On top of addressing our customers' demand, Covestro's Barcelona site has been operating entirely on renewable energy since the beginning of 2022," says Sucheta Govil, Chief Commercial Officer at Covestro. "This approach is part of our ambition to reduce our environmental impact while offering our customers greater access to our solutions and specialties products."

"We are opening the new production unit for our Desmodur® 15 prepolymers in Barcelona in parallel to the ongoing expansion of our NDI capacities in the Asia-Pacific region with the Map Ta Phut plant in Thailand," explains Thomas Braig, Head of Covestro Elastomers. "This new production unit will help us to support our customers' growth in the cast polyurethanes high-end appli-

cations segment." The abbreviation NDI stands for naphthylene diisocyanate.

"Thanks to this new production line, our Vulkollan® licensees, as Desmodur® 15 prepolymers processors, will be able to further develop their business," explains Abdel Arhzaif, Head of NDI-Vulkollan®. "Through these investments, we intend to support the demand for ultra-high-performance elastomers used for superior applications as e.g. in the material handling industry and also for a growing number of engineering applications." Combining the highest mechanical characteristics with dynamic load-bearing capacity, elastomers based on Desmodur® 15 prepolymers are not only one of the most powerful cast polyurethanes in the market, they are also as easy to process as conventional prepolymers.

Source : Covestro

SABIC TO SHOWCASE INNOVATIVE FOAM & LIGHTWEIGHT SOLUTIONS AT FOAM EXPO NORTH AMERICA

SABIC, a global leader in the chemical industry, will be exhibiting its broad portfolio of innovative foam & lightweight solutions for the first time at Foam Expo North America, from 28-30 June in Novi, Michigan.

SABIC offers more than 20 innovative foam and lightweight solutions (PP, EVA, PE, PS, PU and elastomers) that can potentially enable our customers and partners across the entire value

chain to drive performance, by overcoming the challenges they face to meet consumer demand for smarter, more sustainable solutions.

At its booth # 2702, SABIC will be showcasing a variety of end applications made using its foam & lightweight solutions, for the mobility, packaging and construction market. Amongst others; trunk liners, PP planks and water shields made of SABIC® PP-UMS resin, a new generation of ultra melt strength, foamable polypropylene. SABIC® PP-UMS is unique in the market, with a melt strength of more than 65 cN leading to outstanding foamability. It is a building block to develop new foaming solutions that can enable light weighting and potential cost optimization. Other applications to be showcased at the booth will highlight the value of the SABIC resins applied in particle foams, foam injection molding, foam blow molding and foam extrusion.

"SABIC is a leading foam and light weight solution provider; our knowledge and expertise in foam technologies and markets, and in-depth understanding of the value chain and its needs, has been translated into one of the broadest resin portfolios in the industry," said Abdullah Al-Otaibi, ETP & Market Solution General Manager at SABIC Being present the first time at the Foam Expo North America will allow SABIC to interact to deliver and develop a resin portfolio for new and existing applications. We look forward to creating many new partnerships moving forward."



The successful start-up of Gulf Coast Growth Ventures world-scale manufacturing facility in Texas will additionally confirm SABIC's commitment to the US market.

Source : Sabic



Continued from Page 28

“Vipul Organics is very happy to welcome Mr. Purohit on board. He is a recognized expert in distribution and has opened up new avenues and channels in all the companies that he has been associated with. Our sales and marketing team will not just benefit from his cross functional leadership but also from his

strong communication and interpersonal skills”, says Mihir V Shah, Executive Director, Vipul Organics. Mr. Purohit will be responsible for opening up new geographies and bringing in clients from new areas of focus.

Mr. Milin Purohit is an industry veteran and has over 36 years of experience. He has around 2 decades of experience in Chemicals and related businesses like epoxies, adhesives, sealants, construc-

tion chemicals and around 15 years in FMCG segment.

Mr. Purohit is an experienced leader and has proven track record of building result oriented teams and businesses in companies such as Pidilite Ltd., Atul Limited, Hunstman Advanced Material, Pioneer Adhesives, Supreme Industries, etc. In addition, he has worked with Luxor Writing Instruments, Polar International and Godrej Soaps. He has a Masters in Business Administration from NMIMS. Mr. Purohit will be designated AVP – Sales & Marketing at Vipul Organics.

Source : Chemical Market

Lightwave Logic Enhanced Photostability Results Demonstrate Reliability Necessary for Commercial Deployments

ENGLEWOOD, Colo., May 25, 2022 /PRNewswire/ -- Lightwave Logic, Inc. (NASDAQ: LWLG), a technology platform company leveraging its proprietary electro-optic polymers to transmit data at higher speeds with less power, today announced enhanced photostability results on the company's proprietary electro-optic polymer modulators – demonstrating the reliability necessary for commercial deployments – all based on a technology which can be ported into high-volume silicon foundries and integrated onto a silicon photonics platform with other optical devices.

Photostability is a critical performance metric required both in high volume manufacturing processes (such as photolithography) and in offering the high reliability and network availability required for commercial deployments. In the tests conducted, subjecting the company's latest polymers to high intensity

optical power for over 3000 hours produced no change in device performance. The ability of Lightwave Logic's proprietary polymers to pass this accelerated photostability aging test provides assurance that they will both tolerate the optical exposures which occur in high-volume manufacturing and support the reliability over the required operating life of optical transceivers and network elements.

Dr. Michael Lebby, Chief Executive Officer of Lightwave Logic, commented: "These photostability results demonstrate both the compatibility with standard semiconductor manufacturing processes needed for security of supply and the high reliability needed for commercial deployments. Our technology is well positioned to become a key enabler for upgrading the speed of the internet, as well as decreasing power consumption, both of which are now the Achilles

Heel for internet network architectures.

"When we talk to potential customers excited about the performance offered by our polymers, the two questions they always ask are, firstly, whether our polymers can be manufactured using standard processes, and secondly, do our polymers have the reliability required to support high network availability and the specified operating life for commercial deployments. With these results – building upon the foundation of our previous stability results – we can answer affirmatively for both - which is very exciting as we seek to make our polymers ubiquitous in the internet infrastructure landscape."

Source : PRNewswire



VIEWS AND STATEMENTS



"We believe that we can help transform our industries by providing solutions that bring value, including sustainable value, whilst optimizing costs and resource utilization in production. Visitors at our booth will be able to explore cutting-edge performance and coloration that the growing consumer demand for products that are safer for people and kinder to the environment."

- Jyotsana Shrivastava, Senior Vice President, Paper & Packaging Specialties, at Archroma in India. "



"As a key solution to reduce CO2 emissions of the mobility sector, low-carbon hydrogen is a crucial enabler of the energy transition. Air Liquide is pleased to partner with Toyota and CaetanoBus. Such partnerships are essential to create efficient ecosystems that will foster the emergence of hydrogen mobility in Europe. Air Liquide has been committed for more than 50 years to develop the entire hydrogen value chain and will bring its expertise in both the production of low-carbon hydrogen and the development of hydrogen mobility infrastructures. This partnership illustrates the capacity of the industry to bring concrete solutions to the fight against climate change."

- Matthieu Giard, Vice President, member of the Executive Committee of Air Liquide, notably supervising Hydrogen activities, said:



"The acquisition of AGC's stake in the JV simplifies our portfolio and is an attractive opportunity to enhance and further reinforce our business and a future independent EssentialCo,"Increasing our supply of trona-based soda ash is directly aligned with our sustainability ambitions to bring lower carbon-intensive soda ash to the market. In addition, our Green River operation is a world-class, cost-leading asset. Expanding our US trona-based capacities will support in a cost-effective manner our ability to meet growing demand in the Americas and in Asia, which is driven by megatrends including electrification, which uses soda ash to produce lithium carbonate used in EV batteries, and resource efficiency, where it's used in flat glass for solar panels."

- Philippe Kehren, President of Solvay's Soda Ash & Derivatives business. "



"High-voltage components are usually exposed to significant temperature fluctuations. This repeatedly leads to strong discoloration in conventional polyamides. Our newly developed type Ultramid® A3U44G6 DC OR closes the innovation gap in terms of color stability and mechanical strength. For the first time, the new grade meets all the criteria of color stability and heat aging resistance and thus also enables long-lasting color coding, which is safety-relevant in the sensitive area of high voltages. The color stability could be confirmed after 1.000h at up to 130°C in the test."

- Tina Weller, Product Development BASF.



VIEWS AND STATEMENTS



“Our Beringen plant has a long history of safe, reliable production of PAOs and of serving our customers with excellence. The construction of a new unit near our existing assets will allow us to benefit from strong local expertise and leverage Belgium’s central position to meet customer needs globally.”

- Mitch Eichelberger, Executive Vice President of Polymers and Specialties.



“Company CO2 emission reduction targets are playing an increasingly important role in the value chains we serve. With our LowPCF intermediates, we are supporting our customers in achieving their targets: they now have the option to consciously choose a product with a carbon footprint significantly below the global market average. By making CO2 emission data at the individual product level available to our customers, we also offer a level of transparency that is unique in the chemical industry.”

- Stephan Kothrade, head of BASF's Intermediates division.



“Asia Pacific is a strong driving force for our personal care business growth. The increased global production network promotes supply chain agility and availability of low-carbon solutions which are of great importance to our customers within the region. We are looking to further support the local personal care industry with many products and technologies to help us reach our sustainability goals.”

- Madeline Tan, regional business director in Asia North for Evonik’s Care Solutions business line.



“cQrex® AC is a superior solution to the well-known challenges of supplying cystine to cell culture. We are delighted to provide media manufacturers and biopharma companies around the globe with this unique booster for intensified, next-generation bioprocessing.”

- Martin Schilling, director of Cell Culture Ingredients at Evonik’s Health Care business.



“In Asia Pacific, Chrome(VI) processes have been under stringent scrutiny by the authorities in some countries such as China, Japan and Korea due to their environmental impact. Our new Gardobond X4802/2 RFU technology not only focuses on corrosion inhibition and paint adhesion performances, but also enhances moisture resistance by replacing chrome in the pretreatment process. With in-depth research and substantial application expertise, Chemetall is bringing a solid alternative to the pre-painted coil industry, which is of higher technical performance and quality. We are proud to contribute to the sustainability targets of our customers and the end-users in the region.”

- Juergen Herzog, Vice President, Surface Treatment Asia Pacific, BASF.



DKSH Nordic Wins Synthomer Gold Award For The Sixth Time

DKSH Nordic was awarded for its overall achievements in the selling, marketing, and distribution of Synthomer's innovative "Functional Solutions" range of products in 2021.

Zurich, Switzerland, May 16, 2022 – DKSH's Business Unit Performance Materials, a leading distributor of specialty chemicals and ingredients, won the award for the sixth time by exceeding the score for Synthomer's gold rating, which is based on multiple criteria covering sales performance, experience, product knowledge, market coverage, logistics,



financial, and others. As the sole distribution partner for Synthomer Functional Solutions covering eight markets in the Nordic and Baltic region, DKSH provides marketing and sales, distribution, logistics, and customer management for Synthomer's broad range of water-based specialty polymers. The polymers are used in coating, construction, textile, and adhesive applications.

Casper Larsen, Managing

Director, DKSH Nordic, commented: "We are honored to receive the Synthomer Gold Award for the sixth time. I thank Synthomer for this recognition and am grateful to the team at DKSH for their dedication and consistency in marketing and distributing Synthomer's products across the Nordic and Baltic regions."

Source : Chemical Market

Air Products Proudly Launches Female Engineers & Technical Associates (FETA) - an Innovative Female Development Program - in the Kingdom of Saudi Arabia

DAMMAM, Kingdom of Saudi Arabia, May 25, 2022 /PRNewswire/ -- Air Products (NYSE:APD), a world leader in industrial gases, launched Female Engineers & Technical Associates (FETA), a unique program to enable the progression and career development of the next generation of female talent in the Kingdom of Saudi Arabia.

Launched in the presence of the Prince of the Eastern Province, His Royal Highness Prince Saud bin Nayef bin Abdulaziz Al Saud; honoured guests from the Ministry of Human Resources & Social Development (MOHR); and the Saudi Council of Engineers (SCE); the event officially welcomed and congratulated the first women to embark on the

program.

Participants of the program will experience a range of tailored job rotations, hands-on learning as well as professional and technical development opportunities within Air Products, a company that is delivering and executing world-scale,

ground-breaking industrial gases projects that will literally and figuratively

energise and change the world for future generations.

Commenting on the launch, Dr. Samir J. Serhan, Chief Operating Officer, Air Products, said: "Through FETA we are pioneering a new path of learning for female engineers and technicians. This program will help shape their futures as they become part of a world-leading industrial gases company, working on some of the most innovative, forward looking, projects



of our time – projects that are making history by helping to solve significant energy and environmental challenges. I am excited to be part of yet another way Air Products is empowering women and supporting the Kingdom in making Vision 2030 a reality".

"The National transformation program 2020 will accelerate the empowerment of women and strengthen their position in society. We are pleased to support the launch of FETA, which is in line with Saudi Arabia's Vision 2030, and the advancement of women in leadership roles," added Fahad Saad Alzuabi, Resettlement Program Manager in the Eastern Province.

"One of the Saudi Council Engineers' objectives is to support the Saudi Female Engineers and Technician

Associates' (FETA) program. SCE plans to offer engineering training programs and initiatives to Saudi female talents and to reaffirm existing skills and knowledge amongst trainees and increase their productivity. This will also provide them with the opportunity to compete and gain a better access in the engineering sector. We believe that Saudi female engineers will play a significant role in making vision 2030 a reality," commented Abdulnasser Saif Al-Abdul-

latef, Secretary-general of the Saudi Council of Engineers (SCE).

In parallel with the launch of FETA, Air Products is also delighted to announce its latest investment and commitment to the Kingdom and Vision 2030, by making a financial contribution to Education For Employment, the leading non-profit organisation connecting youth in the Middle East and North Africa to the world of work. EFE places special importance on women's social and economic inclusion in Saudi Arabia and across the MENA region to help close the staggering employment gap, where one in four youth cannot find a job.

Source : PRNewswire

Saving Water and Reducing Waste - Evonik Opens its First Zero Liquid Discharge Plant in India

- **Evonik in association with Remon-dis has opened its first plant in India to ensure Zero Liquid Discharge**
- **The plant is an integral component of Evonik's circular economy goals**
- **Located in Dombivli, Western Maharashtra, India.**

Essen/Dombivli. Evonik Catalysts has opened a new Zero Liquid Discharge (ZLD) plant at its facility in Dombivli, India. The new plant reduces the amount of fresh water required for production processes and turns material that was previously considered waste into saleable products.

ZLD purifies and recycles wastewater at the end of an industrial process, leaving

little to no effluent remaining when it is completed. This means not only more efficient water use, but also a significant reduction in waste liquid.

"Environmental excellence has always been a top priority for Evonik in India, and the ZLD plant at our catalysts site is a centerpiece in Evonik's efforts to minimize its production- associated ecological footprint," said Sanjeev Taneja, Senior Vice President and General Manager, Catalysts business line, at the inauguration of the plant.

"The efficient reuse of process water, and products extracted from it, is in line with our circular economy principles, and a key contribution to the sustainability targets of Evonik and our customers."

Evonik is developing site-specific action plans as part of its global water management system. One focus is on sites in regions that could be affected by water scarcity. It also strives for the most efficient use of water.

The main ambition with the Dombivli ZLD plant is to improve the treatment of process water. It goes through a multi-stage process and then the by-products go through further processing. An estimated 600 m3 of wastewater – the equivalent of between 25 and 30 tankers – enters the ZLD plant every day and the plant is expected to recirculate around 55 percent of that – approximately 300-350 m3 – for process reuse and the balance water for re-use as cooling tower make up thus reducing Evonik water use requirements and



thereby reducing Evonik's dependence on municipal water supplies.

The requirement for fresh water will be reduced by 65 percent after stable operation of zero liquid discharge and the company is targeting further reductions through process optimization.

In addition, processing leads to the production of 15-20 metric tons of sodium sulphate and certain mixed salts which can be resold as a commercial product.

"At Evonik, we see responsibility and long-term busi-



ness success as two sides of the same coin," says Vinod Paremal, Regional President, Evonik India Sub-continent. "Sustainability is a central element in our purpose 'Leading Beyond Chemistry', and we look to provide innovative solutions that help to make everyone's lives more sustainable, healthier, and

more comfortable. Sustainability is important to our customers and the end consumer and has long been a growth driver in many of our businesses. This new ZLD initiative carries forward that sustainable outlook."

The ZLD plant is set-up on a 'BOOT' Model between Evonik and Remondis, with the latter responsible for building, owning, operating, maintaining and transferring the ZLD plant to Evonik.

Source : Evonik

Covestro Adds 3D Printing Filaments to Stratasys FDM® Material Ecosystem

- **Performance materials verified and optimized for one of the most reliable FDM printer platforms**
- **Expanded collaboration of two global players with a comprehensive 3D printing offer**

Covestro, a leading materials company, is extending their collaboration with printer manufacturer Stratasys by adding new validated filaments to the material ecosystem for FDM technology, starting with the Addigy® PA6/66-GF20 FR LS filament.



FDM is the third 3D printing technology on which both companies are collaborating, as Covestro Somos® resins are already available on the Stratasys Neo printers for stereolithography and the Origin One P3™ material ecosystem, providing production-ready "material+printer" solutions that meet manufacturing requirements.

Addigy® PA6/66-GF20 FR LS filament is the first Covestro filament in Stratasys' new FDM open material ecosystem announced at Formnext trade fair last November. The flame-resistant Low Smoke filament is one of few commercial filaments that meet norms EN 45545-2, NFPA 130 (ASTM E162, ASTM E662), SMP 800-C and FAR 25.853. Its certifications for flame, smoke and toxicity (FST) make it suitable for railway and other transportation applications.

As 3D printing moves to the factory floor, manufacturing customers need access to functional materials that bring the right properties to their applications and meet specifications. Open ecosystems bring material and printer companies together to optimize the printing process and bring manufacturers ease of mind as they accelerate the use of additive manufacturing in

their production. They also provide dual materials sourcing for mitigating risk.

"Manufacturers have already been benefitting from our collaboration with Stratasys on the Neo and Origin P3™ platforms," says Hugo da Silva, Vice President Additive Manufacturing at Covestro. "By adding Covestro filaments to the Stratasys FDM material ecosystem, they gain access to material innovation to address many more applications."

Source : Covestro



Zhongke Refinery Produces Solar Photovoltaic Materials for the First Time

On May 17, Zhongke Refinery's EVA (ethylene-vinyl acetate copolymer) plant produced UE2825 solar photovoltaic material for the first time, which will help alleviate the dependence of photovoltaic materials on imports.

In recent years, with the high-end development of the domestic photovoltaic industry, the domestic demand for high-end photovoltaic materials has increased significantly, and the import dependence is relatively high. The products produced this time can be used to make photovoltaic cell lamination films, elastic packaging films, heat shrinkable films, agricultural films, food packaging films, high-strength rupture-resistant bags, etc., and have broad market prospects.

The production process is

faced with challenges such as high vinyl acetate content, high melt index, and severe reaction. The reaction control is difficult and the operation requirements are high. The technicians of the installation kept an eye on various parameters, strictly controlled key indicators such as pressure and temperature, and adjusted the melt index by increasing the injection volume of vinyl acetate and slowly increasing the injection

volume of propylene. The internal and external operators work closely together, combined with the operating experience of similar products, always pay attention to various parameters and make adjustments in time, strengthen the appearance inspection of particles, and ensure good production results. (Wu Jinmei and Chen Qin)

Source : Sinopec

How To Tie-Dye Cotton With Acorns And Rust

Tie-dyeing is a fun activity that can spice up clothes with colorful patterns. Although kits are available in stores, nature provides dyes that can be extracted from items found in one's yard — for example, acorns and rust. In ACS' Journal of Chemical Education, researchers present a "green" process for tie-dyeing cotton with renewable resources and wastes that undergraduate students can easily do under minimal supervision. The activity links together science, art and sustainability.

For thousands of years, materials found in nature have



been used as dyes and mordants, which are substances that help affix compounds to fibers. And brown-colored tannins from acorns can bind to orange-colored iron mordant, generating a dark blue, or almost black, color on fabrics. So, Julian Silverman and colleagues wanted to show how these natural dyes can be used in tie-dyeing to produce

designs of white, brown, orange and bluish-black colors on cotton napkins. The resulting patterns depended on how the napkins were wrapped in rubber bands and the order in which they were soaked in an acorn dye bath and dipped in a rust and vinegar solution. Even though all of the dyeing solutions are safe to dump down the drain, the researchers say that gloves, lab coats and goggles will keep the dyes from staining skin or other clothing.

Source : Chemical Market

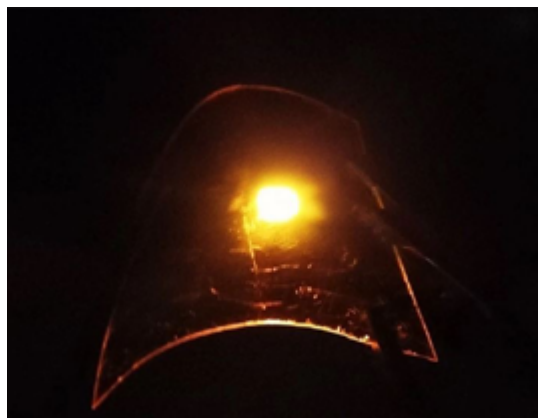


A Candlelight-Like Glow From A Flexible Organic Led

Giving off a comfortable glow, candles set the ambiance for a special dinner or just a quiet evening at home. However, some lighting alternatives, such as electronic candles, give off unwanted blue wavelengths that interfere with the body's circadian rhythm. Now, researchers reporting in ACS Applied Electronic Materials have fabricated an improved bendable organic LED that releases candlelight-like light for flexible lighting and smart displays that people can comfortably use at night.

Previously, Jwo-Huei Jou and other researchers developed organic LEDs that released warm-white light, similar to that produced by candles. However, the devices still emitted some blue wavelength light, which can interfere with sleep because it dampens the body's production of melatonin. These devices were made of solid materials and weren't flexible. One option for making them bendable is to use a plastic backing, as has been done for other organic LEDs. But plastics don't stand up well to repeated bending. Another option for the backing is mica — a natural mineral with extreme temperature tolerance that can be split into bendable, transparent sheets. So, Jou, Ying-Hao Chu and colleagues wanted to develop an even better organic LED and apply it to a mica backing, creating a bendable candle-like light with a long lifespan.

The researchers deposited a clear indium tin oxide film onto a transparent mica sheet as the LED's anode, which could bend 50,000 times without breaking. Next, the team mixed the luminescent substance N,N'-dicarbazole-1,1'-biphenyl with red and yellow phosphorescent dyes to produce a light-emitting layer. This layer was then placed between electrically conductive solutions with the anode on one side and an aluminum layer on the other side, creating a flexible organic LED. When a constant current was applied to the device, it produced a bright, warm light



with even less blue wavelength emissions than natural candlelight. Calculations showed that exposure to the LED for 1.5 hours would suppress a person's melatonin production by about 1.6%, whereas light from a cold-white compact fluorescent lamp would suppress melatonin production by 29%. The researchers say that the flexibility of their candlelight-like organic LED opens up the design opportunities for blue-light-free nighttime devices.

Source : Chemical Market

DKSH Inaugurates New State-Of-The-Art Office In India

DKSH India has relocated its Mumbai office to a larger, modern facility to strengthen its market-leading position in India. The new state-of-the-art office has been designed to support a collaborative workplace for employees

and a high-quality environment for client and customer interaction.

Mumbai, India, May 26, 2022 – After ten years of consecutive growth, DKSH India opened the new and expanded

Mumbai office, designed to house up to 160 employees in its Indian headquarters.

Strategically located in the city's business hub close to Mumbai International



al Airport, the new DKSH India office provides a conveniently accessible location and modern, inviting facilities. Its progressive workspace design fosters collaboration and innovation, while incorporating aspects of DKSH's presence in India over the last 30 years.

The facilities also house three brand new state-of-the-art innovation centers:

- The Food and Beverage innovation center specializes in developing confectionery, bakery, dairy, savory, and emulsion-based formulations. The center provides solutions for unique bakery products, such as low-sugar muffins, cakes, and beverages; dairy products, such as functional drinks, fruits drinks, and yogurt; as well as savory products, such as egg-free mayonnaise
- The Personal Care innovation center specializes in solutions and formulations for color cosmetics, actives, skincare, haircare, oral care, and home care applications
- The Specialty Chemicals innovation center offers support as a formulation lab to our valued clients and customers from innovative solutions to idea



generation and benchmarking. Our extensive laboratory resources provide evaluation services for raw materials used in architectural, industrial, and automotive/refinish paints

Each innovation center is equipped with the latest high-end technology, including au-

tonomous application testing facilities, and serves as a one-stop solution to customers by providing a broad range of

specialized services. The service portfolio encompasses formulation development, idea generation and conceptualization, new ingredient and technology application, product demonstration, acceptance tests, and hands-on technical training.

Dr. Natale Capri, Co-Head Business Unit Performance Materials, commented:
"This investment is part of our ongoing commitment to supporting our clients and customers in India.

Our innovation center experts are dedicated to creating tailor-made solutions that meet individual challenges, and our new modern and high-tech Mumbai office will make it possible to respond to all regional needs as quickly as possible."

Atul Nagarkar, Vice President, Global Business Line Specialty Chemicals Industry & Managing Director DKSH India, added: "The new office provides an excellent work environment for our employees who are our key assets. Our high-tech innovation centers provide innovative formulations and solutions to serve our valued customers in India."

Vishal Jawale, Director, Country Management, DKSH India, stated: "As a leading Market Expansion Services provider, our new Mumbai office enables us to respond to the rising demand for companies to expand their new or existing business in India. This move represents our continued commitment to our employees and our business partners, paving the way for further growth in the years to come."

Source : Chemical Market

Air Products to Showcase Industrial Gas Solutions at AISTech2022

Air Products (NYSE:APD) will showcase industrial gas solutions and technologies for all phases of iron and steel production at AISTech2022 from May 16-18 at the David L. Lawrence Convention Center in Pittsburgh, Pennsylvania.

Those attending are invited to stop by

Air Products' booth, #1641, to speak with an industry specialist and learn how Air Products' industrial gases, technologies, and supply solutions can help iron and steelmakers optimize process efficiency, reduce cost, and decarbonize their processes.

By visiting the Air Products' booth at-

tendees will also be helping the AIST Foundation, which funds initiatives to promote the steel industry as a viable and rewarding career choice for young engineers. The Air Products Foundation has pledged to donate \$100 to the AIST Foundation – up to \$15,000 in all – for each registered attendee who visits the Air Products booth.



Price as on May 30, 2022

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

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



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

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

CHEMICAL MARKET

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In addition to showcasing solutions in its booth, Air Products industry experts will also be taking part in the following presentation and panel discussion during the Energy and Utilities sessions in Room 407 on Monday, May 16.

2 p.m. Air Products' presentation on "Hydrogen Production and Supply Methods for Decarbonizing Iron and Steelmaking" given by Anup Sane, Air Products' Applications Technology Lead – Metals and Minerals and Michelle Schoonover, Air Products' Manager – Syngas Technology.

4 p.m. panel discussion on "A Pathway to Making Your Reheat Furnaces Green while Improving Capacity and Reducing Energy Consumption." Sane will be one of five participating in the discussion.

As a global leading industrial gas supplier, Air Products brings decades of experience in gas supply and technology to improve the operations performance of metals producers. Air Products offers a full line of gases including argon, carbon dioxide, helium, hydrogen, nitrogen, oxygen and gas blends, with a broad range of supply mode options and purity levels to suit the needs of every operation. Air Products can also provide a wide variety of technical services and innovative gas-based technologies to help companies lower costs and improve productivity, while minimizing the environmental impact of production processes.

Air Products' expertise, gases, supply modes and technologies combine

to provide ferrous and non-metals producers a wide range of operational capabilities and process efficiency improvements, from primary production and refining to secondary recovery and processing, that can result in significant benefits including increased yield, increased productivity, increased fuel efficiency, reduced emissions and lower operating costs.

Source : Air Products

DKSH Joins The Un Global Compact

DKSH has joined the United Nations Global Compact initiative, the largest corporate responsibility initiative in the world, further strengthening its commitment to sustainability.

Zurich, May 30, 2022 – DKSH, the trusted partner for companies seeking to grow their businesses in Asia and beyond, has joined the United Nations (UN) Global Compact, a voluntary leadership platform for the development, implementation, and disclosure of responsible business practices.

Launched in 2000, the UN Global Compact is the largest corporate sustainability initiative in the world, with more than 15,000 companies and 3,000 non-business signatories based in over 160 countries, and more than 70 Local Networks.

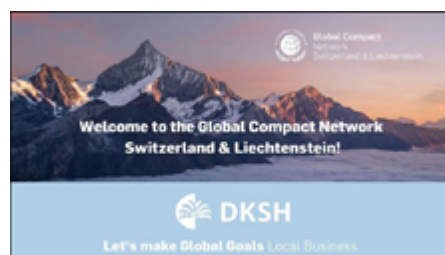
Antonio Hautle, Executive Director, UN Global Compact Network Switzerland & Liechtenstein, said: "Companies who integrate the social, economic, and

ecologic dimensions in their business model will be successful in the long term. We warmly welcome DKSH in our UN Global Compact Network Switzerland & Liechtenstein. We are looking forward to supporting DKSH's sustainability journey and making use of their knowledge and expertise to jointly bring forward the UN Agenda 2030 with the 17 Sustainable Development Goals."

Stefan P. Butz, CEO DKSH, commented: "We are proud to join thousands of other companies in taking responsible business action to create a better world. This is a strong demonstration of our belief that sustain-

ability is about collaboration across industries and markets. As a participant of the UN Global Compact, we are committed to aligning our strategy and operations with ten universally accepted principles on human rights, labor, environment, and anti-corruption, as well as taking actions in support of the UN Sustainable Development Goals."

Source : Chemical Market



HyCOgen and FT CANS, Innovative Technologies to Enable Sustainable Fuel Production Selected for Repsol and Aramco's Synthetic Fuel Plant in Bilbao

- Repsol and Aramco synthetic fuel plant in Bilbao to become one of the world's first to use green hydrogen and CO₂ to generate sustainable synthetic fuels
- Technologies developed by Johnson Matthey and bp enable production of ultra-low emission fuels

Johnson Matthey, a global leader in sustainable technologies, and bp, an international energy company, have announced that their co-developed, ground-breaking Fischer Tropsch (FT) CANS™ technology and Johnson Matthey's innovative reverse water gas shift technology, HyCOgen™, have been selected for use by Aramco and Repsol at a new synthetic fuels plant in Bilbao, Spain.

The plant will be one of the world's first to use renewable (green) hydrogen and CO₂ as its only raw materials. It is due to be commissioned in 2024, with a starting capacity of more than 2,100 tonnes per year. It will produce a sustainable synthetic drop-in fuel that can be blended for existing road vehicle engines, planes and ships.

It is the second licence signed for the FT CANS technology, which was jointly developed with bp to deliver significant environmental and operational benefits. It converts synthesis gas (syngas), generated from sources such as industrial emissions, direct air capture, municipal solid waste or other renewable biomass, into long-chain hydrocarbons suitable for the production of diesel and jet fuels.

It is the first licence signed for Johnson Matthey's recently launched HyCOgen technology, which uses a catalysed pro-

cess to convert CO₂ and green hydrogen into carbon monoxide (CO), which is then combined with additional hydrogen to form syngas. Coupling HyCOgen and FT CANS technologies provides an end-to-end, scalable process optimized for high conversion efficiency — enabling the production of premium quality synthetic crude oil.

Aramco Chief Technology Officer, Ahmad Al-Khowaiter, said: “This agreement supports our ongoing work to develop lower-emission transport solutions and we are thrilled by the opportunity it represents. Converting CO₂ into synthetic, lower-carbon fuels can meaningfully contribute to the reduction of transport emissions and, through this strategic partnership, we aim to harness innovative technologies that can unlock the full potential of both sustainable fuels and chemicals — and demonstrate their competitiveness.”

Adriana Orejas, Director Industrial Transformation and Deep Tech at Repsol said: “The development of Bilbao synthetic fuel, where sustainable synthetic fuel shall be produced, represents an important step on our commitment

of being a Net Zero Emission company by 2050, aligned with the climate objectives set out in Paris by COP21. Coupling Johnson Matthey, a reliable and demonstrated global leader technologist, HyCOgen and FT CANS Technology allow us to demonstrate the whole value chain of producing sustainable fuel from CO₂ and renewable hydrogen as unique raw materials, complementing Repsol's portfolio of Low carbon fuels alternatives.”

Noemie Turner, VP Technology development & commercialisation at bp, said: “Repsol and Aramco choosing to license our co-developed FT CANS technology recognises great science and engineering. This builds on the first license to Fulcrum Bioenergy, further demonstrating the key role of the technology in the production of sustainable fuels.”

Jane Toogood, Sector Chief Executive at Johnson Matthey, said: “In licensing both the HyCOgen and FT CANS technologies for their Bilbao plant, Repsol and Aramco have recognised the potential of this pioneering solution — and shown that we're a trusted partner in sustainable fuel production technology.”

The scalability of the combined HyCOgen and FT CANS solutions enables cost-effective deployment across a wide range of project sizes. Either technology can also be licensed independently.

Source : Johnson Matthey



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PRODUCT LIST

1 Amino
AAKAR DYES AND CHEMICALS Pg 14
1 Naphthol
AAKAR DYES AND CHEMICALS Pg 14
2(4 Ethyl Benzol)
Mavani Chemicals Pvt. Ltd. Pg 15
2(4 Methyl Benzoyl)
Mavani Chemicals Pvt. Ltd. Pg 15
2, 6. Dihydroxy Naphthlene
AAKAR DYES AND CHEMICALS Pg 14
2 Naphthol
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3,6 Disulfonic Acid
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AAKAR DYES AND CHEMICALS Pg 14
6BA
Chemilife Enterprises Pg 10
6 Nitro
AAKAR DYES AND CHEMICALS Pg 14

A

Acetonitrile
Krishna Solvechem Ltd. Pg 9
Acetyl H. Acid
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Acid Green-16
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Acid Orange 156
Mavani Chemicals Pvt. Ltd. Pg 15
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Amido G. Acid to Gamma Acid
AAKAR DYES AND CHEMICALS Pg 14
Amino ISO J Acid
AAKAR DYES AND CHEMICALS Pg 14

B

Basic Auramine Liquid
HIREN ENTERPRISES Pg 14
Basic Bismark Brown R
HIREN ENTERPRISES Pg 14
Basic Bismark Brown Y
HIREN ENTERPRISES Pg 14
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D

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Diethylhydroxylamine (DEHA)
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Edible Refine Salt
SKC INDUSTRIES LLP Pg 16

F

Formic Acid 85% Luxi
Krishna Solvechem Ltd. Pg 9

G

Gibberlic Acid
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Green - BL
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G Salt to Amido G Acid
AAKAR DYES AND CHEMICALS Pg 14



H

H Acid

AAKAR DYES AND CHEMICALS Pg 14

Heptane

Krishna Solvechem Ltd. Pg 9

Hexane

Krishna Solvechem Ltd. Pg 9

Basic Brown Y Liquid Pg 14

HIREN ENTERPRISES Pg 14

Basic Brown Y Liquid Pg 14

Hydrogen Peroxide 50%

Krishna Solvechem Ltd. Pg 9

I

Indole Acetic Acid

Chemilife Enterprises Pg 10

Indole Butyric Acid

Chemilife Enterprises Pg 10

Industrial Salt

SKC INDUSTRIES LLP Pg 16

IsoButyl Chloride

Krishna Solvechem Ltd. Pg 9

Isoprpyl Alcohol (IPA)

Krishna Solvechem Ltd. Pg 9

J

J Acid

AAKAR DYES AND CHEMICALS Pg 14

L

Lactose Monohydrate

Krishna Solvechem Ltd. Pg 9

M

Mamas Acid

Mavani Chemicals Pvt. Ltd. Pg 15

Methoxy Acetyl Chloride

Krishna Solvechem Ltd. Pg 9

MIPA 70%

Krishna Solvechem Ltd. Pg 9

Mnoethylamine 70%

Krishna Solvechem Ltd. Pg 9

MSP

Krishna Solvechem Ltd. Pg 9

N

Naphthalene 2:7 Disulfonic Acid

AAKAR DYES AND CHEMICALS Pg 14

N-Hexyl Bromide

Krishna Solvechem Ltd. Pg 9

N-Hexyl Chloride

Krishna Solvechem Ltd. Pg 9

Nitriazine Yellow

Mavani Chemicals Pvt. Ltd. Pg 15

N-Propyl Bromide

Krishna Solvechem Ltd. Pg 9

O

Octyl Bromide

Krishna Solvechem Ltd. Pg 9

Octyl Chloride

Krishna Solvechem Ltd. Pg 9

Orange ARL

Mavani Chemicals Pvt. Ltd. Pg 15

Orange Base

Mavani Chemicals Pvt. Ltd. Pg 15

P

Papas Acid

Mavani Chemicals Pvt. Ltd. Pg 15

Peracetic Acid

Chemilife Enterprises Pg 10

PH

Mavani Chemicals Pvt. Ltd. Pg 15

Phosgenated and Cyanuric Based

Mavani Chemicals Pvt. Ltd. Pg 15

Pivaloyl Chloride

Krishna Solvechem Ltd. Pg 9

PMBS

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Propylene Glycol Monomethyl Ether Acetate

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Q

Quinizarine (1-4 Dihydroxy Anthraquinone

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R

Raw Salt/Crystal/Coarse Salt

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Red - 4G

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Red - HI

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S

Salt Free Dyes

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SAPP

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Silver Peroxide

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Sodium Chloride NACL 99%

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Sodium Percarbonate

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Sodium Sulphate

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SS

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Stain Indicator

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T

Tablet Salt

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Yellow ARL

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Yellow GL

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Yellow RL Base

Mavani Chemicals Pvt. Ltd. Pg 15



Zapping Orange Peel Oil Into New Pleasant Aroma Compounds

As oranges are peeled, they spray a tangy, citrus scented oil into the air. The main compound in the fragrant mist is limonene, which can be collected from discarded peels and used in flavorings, perfumes and all-purpose cleaners. Now, researchers reporting in ACS' Journal of Agricultural and Food Chemistry have treated limonene with electricity and ethanol, transforming it into a mixture of pleasant-smelling aroma compounds, some of which haven't been identified before.

Limonene is regularly used in its original form, but it can also be the starting platform for other scents.



But synthetic oxidation techniques that can perform this transformation have traditionally required environmentally harmful substances, such as strong chemicals and heavy metals. So, Holger Zorn and col-

leagues tested an environmentally benign oxidation method, mixing limonene with ethanol and applying an electrical current to the solution. The process gen-

erated an amber-colored liquid with a pleasant odor and 17 different compounds that had fruity, herbal, citrus and resinous notes. According to the researchers, this is the first time that most of these compounds have been described. The simple, sustainable method could create valuable aroma compound mixtures for flavorings or fragrances, but the compounds must be evaluated for safety before use in commercial products, the researchers say.

Source : Chemical Market

Kansai Nerolac Paints Ltd Placed In Leadership Position In Crisils Sustainability Yearbook 2022

- Kansai Nerolac Paints leads in overall ESG Performance and is the only Paint company in the 'Leadership' category
- The company is one among the only 14 companies that have been allotted the 'Leadership' position based on their ESG initiatives

Mumbai, June 02, 2022: In recognition of its relentless commitment towards sustainability and the environment, Kansai Nerolac Paints Ltd (KNPL) has been placed in the 'Leader-

ship' category in the CRISIL Sustainability Yearbook 2022. The company is one among the only 14 companies that have been placed in this category for their ESG initiatives. Further, Kansai Nerolac Paints Ltd has earned the highest ESG score amongst paint and manufacturing companies. This recognition further reinforces the company's commitment towards nurturing a beautiful and healthy world for future generations.

The CRISIL Sustainability Yearbook is one of the most comprehensive annual publications based on CRISIL's propri-

etary ESG framework on Indian companies. Analyzing over 575 companies across 53 sectors in India based on data, from the fiscal data from 2021, the Yearbook covers the latest global and domestic developments in the ESG space, incorporation of climate risks by global financial institutions, de-carbonization of hard-to-abate sectors in India, implications of transitioning from BRR to BRSR for Indian companies and showcases insights on ESG trends based on the scores and data of the Indian companies.



Commenting on the achievement, Mr. Anuj Jain, Managing Director, Kansai Nerolac Paints Ltd. said, “We are elated to be placed in the ‘Leadership’ position in the CRISIL Sustainability Yearbook 2022. This report is a testament to our commitment towards sustainability. At Nerolac, sustainability is at the forefront of all our operations to deliver value to our stakeholders. ESG continues to remain a priority and

that has helped us create a positive impact on our communities and the environment. We will continue increasing our ESG efforts as we focus on growing our business sustainably. We are proud to have set a benchmark in this space for our ESG practices and we are thankful to CRISIL for this recognition.”

With sustainability as a key focus area, Nerolac works towards de-carbonisation, resource use, quality of life, diversity and governance as key materiality areas. The brand offers healthy paint

solutions which are not merely colour but care for family and society through product interventions, with pioneering steps such as low VOC (volatile organic compounds), fungal resistant and anti-bacterial paints, making paints lead free etc. in vibrant colours.

Nerolac's 'Paint+' offering powered by Japanese technology showcases its technological prowess to devise intelligent paint solutions that not only improve the aesthetics of the house but also provide additional benefits that help make its customers' lives easier.

Kansai Nerolac Paints has also featured in the Top Quartile in S&P ESG Indices (Chemical Industry Space) in Corporate Sustainability Assessment 2021.

Source : Chemical Market

Cosmo Speciality Chemicals New Generation Cationic Softener Silky SF To Offer Unmatched Finishing Effect

New Delhi, 2nd June 2022: Cosmo Speciality Chemicals, a 100% subsidiary of Cosmo Films Ltd. announces the launch of Silky SF – a cationic softener that enables excellent softening effect on all kinds of textile. The newly launched product is cost effective and offers a silky touch to the fabric. The product will be available across Indian/global market.

Silky SF softener is recommended as a finishing product for all kinds of fabric, especially cotton as it imparts surface smoothness to the material. The application of this finishing agent provides a soft, fluffy, soapy, voluminous surface to the physical texture of the fabric. To increase lubricity of the fabric, this finishing agent can be applied with exhaust and pad process application. Silky SF is a cost effective product and ensures minimal effect on shade change of treated

materials on post softening thermo-mechanical treatments.

On the introduction of the new softener, Mr. Anil Gaikwad, Business Head, Cosmo Specialty Chemicals said, “Our aim is to innovate and develop products that yield optimum results in terms of efficiency and costs for our consumers. Silky SF is

a convenient alternative for softeners used at the finishing stage of textile processing for all kinds of fibers as it successfully lubricates the fabric and gives it a lasting luxurious feel without compromising the quality of the cloth.”



The softener is easy-to-use and its application retains quality while imparting surface smoothness and supple handle to the cloth. Silky SF is miscible in water



EVENTS AND CONFERENCES

CPHI CHINA - VIRTUAL CPHI

Date: June 21-23, 2022

City: SNIEC, Shanghai

Country: China

Website: <https://www.cphi.com/cphi/china>

Description: CPhI & P-MEC China, the international meeting place for the global pharma industry, is your gateway to successfully grow your business in Asia. Whether you are looking for sourcing new business or getting the latest market insight, this is your one-stop-shop to the entire pharma supply chain!

With travel restrictions still in place we understand that not everyone can travel to the in-person event in Shanghai. That's why we've made it easier for the global pharma industry to connect, learn and trade with our SMART event format combining the in-person show with its online content and networking features. Participate from anywhere in the world and join us online

ASIA PACIFIC COATINGS SHOW

Date: Sept 14-16, 2022

City: Balai Sidang Jakarta Convention Center

Country: Jakarta, Indonesia

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

Description: The Asia Pacific Coatings Show is the leading event in South East Asia and the Pacific Rim for the coatings industry. For three days, the exhibition offers the opportunity to meet new and existing customers from the region; gather insight on the latest technologies available in the market; and have meaningful, face-to-face business interactions.

The event provides the perfect environment for the entire spectrum of the coatings industry to do business, from raw material suppliers to equipment manufacturers, to distributors and technical specialists like formulators. That's not all – the conference that is held alongside the event offers the opportunity to learn about the latest industry products, innovations and trends; exchange ideas with industry leaders; and build a strong network in the region.

CPHI KOREA

Date: Sept 28-30, 2022

City: COEX, Seoul

Country: Korea

Website: <https://www.cphi.com/korea/en/about/the-event.html>

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

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

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



EVENTS AND CONFERENCES

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

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

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

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

EXPO PAINT AND COATINGS

Date: July 28 -30, 2022

City: Pragati Maidan, New Delhi

Country: India

Website: <https://www.cantonfair.net/event/7289-expo-paint-and-coatings>

Description: Expo Paint & Coatings 2022 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 2022 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.

DYE+CHEM BANGLADESH INTERNATIONAL EXPO

Date: Aug 31- Sept 3, 2022

City: International Convention City Bashundhara (ICCB), Dhaka

Country: Bangladesh

Website: <https://10times.com/dye-chem-bangladesh>

Description: Dye+Chem Bangladesh, a high profile event dealing with studies related to fabric & yarn synthesis and yarn spinning, gives a quality stage for research and analysis of the same. This event exhibits products from Chemicals & Dyes, Textile to Fabrics & Yarns by giving much needed emphasis on Environment & Waste Management industries. Your ONLY exclusive Gateway to the All Kinds of Dyes and Fine & Specialty Chemicals sector of Bangladesh and a perfect B2B exhibition for the entire Dyes & Chemical sector of Bangladesh.

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



in all proportions. For textile processing, its usage is suitable for exhaust and pad application technique. The recommended dose for Exhaust is 2.0 – 4.0 % while for continuous use is 20 – 40 g/l.

Backed up by technical know-how and

long-term experience in textile processing, formulations of anionic, cationic, non-ionic, and amphoteric surfactants, Cosmo Speciality Chemicals have a unique and strong experience in Speciality textile chemicals. The R & D facility is equipped with sophisticated

analytical instrumentations including SEM-EDS, TGA-MS, DMA, FTIR & imaging IR, DSC & optical microscope, etc. which helps the company develop products at a molecular level.

Source : Chemical Market

BASF Offers Range of Chemical Intermediates with Product carbon footprint significantly below global market average

- Analysis comprising product-specific emissions from cradle to gate
- Market comparison reveals good position for a range of intermediates

BASF has calculated the individual product carbon footprints (PCF) of a large part of its portfolio of chemical intermediates¹. The results were compared with assessments of market-wide average carbon footprints of the corresponding products of third parties². The outcome of the analysis shows that due to the production set-up the PCF of a range of BASF's chemical intermediates is significantly below the global average PCF of the corresponding third-party chemicals, all produced from fossil-based raw materials.

BASF now offers these products as “LowPCF” intermediates:

- Tert-Butylamine (tBA) LowPCF
- Formic Acid (FA) LowPCF
- Propionic Acid (PA) LowPCF
- 1,6-Hexanediol (HDO*) LowPCF
- Neopentyl Glycol (NPG) LowPCF

The PCF comprises the total greenhouse gas emissions that occur until the BASF product leaves the factory gate for the customer: from the extraction of resources through manufacturing of precursors to the making of the final chemical product itself. On its journey to achieve net zero CO₂ emissions by

2050, BASF is the first large chemical company to make the individual carbon footprints of all its sales products available to its customers.

Various factors contributing to low product carbon footprint

The PCF is determined by various factors. For example, energy generation in BASF's own gas-fired combined heat and power plants generates significantly less greenhouse gas emissions compared to other conventional energy generation. In addition, production processes of LowPCF intermediates are characterized by high production efficiency in terms of energy and raw material consumption due to BASF's integrated Verbund system and continuous efforts in operational excellence. Finally, LowPCF intermediates generally use oil, natural gas or Verbund by-products, but not coal, as primary raw materials. Due to its chemical properties, the use of coal generally results in a higher carbon footprint of downstream products compared to natural gas or oil.

“Company CO₂ emission reduction targets are playing an increasingly important role in the value chains we serve. With our LowPCF intermediates, we are

supporting our customers in achieving their targets: they now have the option to consciously choose a product with a carbon footprint significantly below the global market average,” says Stephan Kothrade, head of BASF's Intermediates division. “By making CO₂ emission data at the individual product level available to our customers, we also offer a level of transparency that is unique in the chemical industry.”

The intermediates tert-Butylamine (tBA), formic acid (FA), propionic acid (PA), 1,6-hexanediol (HDO) and neopentyl glycol (NPG) are versatile chemicals* that are used as ingredients for numerous everyday products. Examples include plastics, car tires, deicing agents, pharmaceuticals, crop protection products, paints and coatings. BASF customers use these products in the textile, automotive, agricultural, pharmaceutical and furniture industries, among others.

Source : BASF



Gotion High-Tech Launches Semi-Solid-State Battery & Mobile Charging Pile at Its 11th Technology Conference

HEFEI, China, June 1, 2022 / PRNewswire/ -- From May 27 to 28, Gotion High-Tech, a renowned manufacturer of power batteries in China, convened its 11th Technology Conference. The Company launched several new products at the Conference, including the semi-solid flow battery with a capacity density of 360Wh/kg, the JTM+ Gotion power exchange technology named Leishi and the EPLUS intelligent mobile energy storage charging pile.

Semi-solid-state batteries will be loaded this year. For models equipped with semi-solid-state batteries, the battery pack will reach 160 kWh, with a driving mileage of 1,000 km, and an acceleration time of only 3.9s per 100 km. The Company has developed the prototype sample of NCM semi-solid-state batteries with a capacity density of 400Wh/Kg in its laboratory. It will accelerate the transition from liquid batteries to semi-solid flow ones and finally complement all-solid-state batteries through techno-

logical innovation of silicon-based anode iteration, lithium metal anode and pre-lithium technology.

By carrying the LFP cell with a capacity density of 210Wh/kg on its independently developed JTM system and integrating it with Gotion power exchange technology named Leishi, the Company has entered the field of power exchange to realize the integration of charging, exchange and storage of batteries. Products carrying this technology have received bulk orders and will soon be listed in the Announcement of New Vehicle Catalog issued by the Ministry of Industry and Information Technology of China.

The EPLUS intelligent mobile energy storage charging pile is the first self-developed product of Gotion High-Tech in the field of mobile energy storage and charging for ordinary consumers. It features easy layouts, multiple scenarios,

large capacity and high power, and is the best solution for the integration of distributed storage and charging in cities.

Gotion will continuously deepen its cooperation with Volkswagen. There are more than 100 members in the joint project team of Volkswagen and Gotion, covering all functional areas such as cell R&D, manufacturing process, project management, quality control, and performance testing. Volkswagen has signed a purchase agreement with Gotion High-Tech on its self-developed NCM batteries and LFP Unified Cells.

With the theme of "Upholding Innovation and Going Global", the 2022 Gotion Technology Conference has attracted many experts and scholars from top research academies, research institutions, and colleges and universities around the world, including 15 academicians, to deliver speeches.

Source : PRNewswire

How Gas Stoves Pollute Your Home Video

WASHINGTON, June 6, 2022 — Many of us love our gas stoves. But unfortunately, they can create indoor pollution levels that exceed legal outdoor pollution levels. This video dives into the science of how these pollutants are created, and what we can do about it: <https://youtu.be/P8pbZlqyXJ4>.

Reactions is a video series produced by the American Chemical Society and PBS Digital Studios. Subscribe to Reactions at <http://bit.ly/ACSReactions> and follow us on Twitter [@ACSReactions](https://twitter.com/ACSReactions).

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most cited, most trusted and most read within the scientific literature; however, ACS itself does not conduct chemical research. As a specialist in scientific information solutions (including SciFinder® and STN®), its CAS division powers global research, discovery and innovation. ACS' main offices are in Washington, D.C., and Columbus, Ohio.

Source : Chemical Market



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