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DYES & CHEMICAL MARKET

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39th Year SINCE 1982

A MONTHLY MAGAZINE DEVOTED TO

DYES CHEMICALS PHARMACEUTICALS API TEXTILE AUXILIARIES PAINTS SOLVENTS COSMETICS

Archroma and Baldwin to Collaborate for Optimized Performance and Resource Saving in Textile Finishing -Pg28

Discover Clariants Biodegradable Microplastic-Free Opacifier for Shampoo and Liquid Soaps -Pg51

Shin-Etsu Chemical has Developed a High-Strength Inorganic Thin-Film Coating Liquid with Excellent Antibacterial and Antiviral Properties Suitable for Surface Functionalization of Building Materials. -Pg55

Expo Paint And Coatings - 2022

28 29 30 July 2022

Pragati Maidan, New Delhi, India.

A Mega Show For Paint & Coating Industry

Total Solutions For Paint Manufacturing & Application

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

EVENT HIGHLIGHTS

- 10000 m² Exhibition Space
- 250+ Exhibitors
- 10000+ Visitors
- Technical Conference
- High Number & Quality Of Trade Visitors / Buyers

- SAFE ENVIRONMENT SCHEDULED MEETINGS
- EXCLUSIVE PRODUCT DISPLAY AND LAUNCH SECTION
- CONCURRENT SHOW BRUSH TECH 2022
- BUYER - SELLER MEET & NETWORKING FORUM

Book your space !!

Networking | Business Development | Brand Promotion

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

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

Supported By:

IndianSmallScalePaint Association; IMG Indian Resins Manufacturers Association; ISCMA Indian Speciality Chemicals Manufacturers Association; The Society For Surface Protective Coatings- India; The Chemical & Alkali Merchants' Association

Visitor Analysis

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

PAINTVISION; ipcm

Media Partners

CHEMICAL MARKET; 99 BUILDERS' CHOICE

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info@expopaintcoating.in | www.expopaintcoating.in

Concurrent Show

28 29 30 July 2022

Pragati Maidan, New Delhi, India.

BrushTech 2022

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

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

CHEMICAL MARKET

CphI - Informa Group

No	Exibitions	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

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 Eurosia	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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- **RED - HI** (Against Huntsman Scarlet BNLE)
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NIMISH M. MAVANI
CEO

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Sodium Sulphate by Product

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Head Office:
SKC INDUSTRIES LLP
13,1st Floor, SwamiNarayan Mandir Bulding,
Plot No.37, Sec-9, Opp Jai Residency,
Gandhidham-Kutch 370201 Gujarat-India.
Email: naran@skcind.com
Web: www.skcsalt.com, www.skcexport.com

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Tri Mathyl Amine

Aditya Birla Thailand

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

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PCl_5

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and Other products

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Tri Ethyl Amine

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Product Name	Qty	Grade
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@vbshilpa.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 Kerela)
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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info@chemicalmarket.net or visit
https://www.chemicalmarket.net/search

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	
Dimethylsuccinylo 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

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
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
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
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 Tere-phthalate		
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, Dari-**yasthan 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

Sales Enquiries

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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		
Indutrial 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
Diflubenzurone	250 Kg 500 Kg	

Details :
CHANDRESH HAPANI
ANIMED (Distributor)
Email : animed6@yahoo.co.in
Mobile : 9830175616

Sales Enquiries

Product Name	Qty	Grade
Sulphur Powder		
Sulphur Roll		

Details : we are manufactuers 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		
Emusifier		
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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EDITORIAL
CHEMICAL MARKET
A MONTHLY MAGAZINE DEVOTED TO THE DYES, CHEMICALS, PHARMACEUTICALS, TRADE & INDUSTRY SINCE 1982

About the Paint Industry Part 1

Paint is any pigmented liquid, liquefiable, or solid mastic composition that, after application to a substrate in a thin layer, converts to a solid film. It is most commonly used to protect, color, or provide texture. Paint can be made in many colors—and in many different types. Paint is typically stored, sold, and applied as a liquid, but most types dry into a solid. Most paints are either oil-based or water-based and each has distinct characteristics. For one, it is illegal in most municipalities to discard oil-based paint down household drains or sewers. Clean-up solvents are also different for water-based paint than they are for oil-based paint. Water-based paints and oil-based paints will cure differently based on the outside ambient temperature of the object being painted (such as a house.) In 1866, Sherwin-Williams in the United States opened as a large paint-maker and invented a paint that could be used from the tin without preparation. It was not until the stimulus of World War II created a shortage of linseed oil in the supply market that artificial resins, or alkyds, were invented. Cheap and easy to make, they also held the color well and lasted for a long time

The vehicle is composed of the binder; or, if it is necessary to thin the binder with a diluent like solvent or water, it is the combination of binder and diluents. In this case, once the paint has dried or cured very nearly all of the diluent has evaporated and only the binder is left on the coated surface. Thus, an important quantity in coatings formulation is the "vehicle solids", sometimes called the "resin solids" of the formula. This is the proportion of the wet coating weight that is binder, i.e. the polymer backbone of the film that will remain after drying or curing is complete.

The binder is the film-forming component of paint.It is the only component that is always present among all the various types of formulations. Many binders are too thick to be applied and must be thinned. The type of thinner, if present, varies with the binder. The binder imparts properties such as gloss, durability, flexibility, and toughness. Binders include synthetic or natural resins such as alkyds, acrylics, vinyl-acrylics, vinyl acetate/ethylene (VAE), polyurethanes, polyesters, melamine resins, epoxy, silanes or siloxanes or oils. Binders can be categorized according to the mechanisms for film formation. Thermoplastic mechanisms include drying and coalescence. Drying refers to simple evaporation of the solvent or thinner to leave a coherent film behind. Coalescence refers to a mechanism that involves drying followed by actual interpenetration and fusion of formerly discrete particles. Thermoplastic film-forming mechanisms are sometimes described as "thermoplastic cure" but that is a misnomer because no chemical curing reactions are required to knit the film. Thermosetting mechanisms, on the other hand, are true curing mechanism that involve chemical reaction(s) among the polymers that make up the binder.

Thermoplastic mechanisms: Some films are formed by simple cooling of the binder. For example, encaustic or wax paints are liquid when warm, and harden upon cooling. In many cases, they re-soften or liquify if reheated. Paints that dry by solvent evaporation and contain the solid binder dissolved in a solvent are known as lacquers. A solid film forms when the solvent evaporates. Because no chemical crosslinking is involved, the film can re-dissolve in solvent; as such, lacquers are unsuitable for applications where chemical resistance is important. Classic nitrocellulose lacquers fall into this category, as do non-grain raising stains composed of dyes dissolved in solvent. Performance varies by formulation, but lacquers generally tend to have better UV resistance and lower corrosion resistance than comparable systems that cure by polymerization or coalescence. The paint type known as Emulsion in the UK and Latex in the United States is a water-borne dispersion of sub-micrometer polymer particles. These terms in their respective countries cover all paints that use synthetic polymers such as acrylic, vinyl acrylic (PVA), styrene acrylic, etc. as binders. The term "latex" in the context of paint in the United States simply means an aqueous dispersion; latex rubber from the rubber tree is not an ingredient. These dispersions are prepared by emulsion polymerization. Such paints cure by a process called coalescence where first the water, and then the trace, or coalescing, solvent, evaporate and draw together and soften the binder particles and fuse them together into irreversibly bound networked structures, so that the paint cannot redissolve in the solvent/water that originally carried it. The residual surfactants in paint, as well as hydrolytic effects with some polymers cause the paint to remain susceptible to softening and, over time, degradation by water. The general term of latex paint is usually used in the United States, while the term emulsion paint is used for the same products in the UK and the term latex paint is not used at all. (to be continued)

-Rajiv Parikh

Global Cashew Nutshell Liquid Market (2022 to 2027) - Growing Demand for Bio-Based and Sustainable Green Products Presents Opportunities

DUBLIN, June 21, 2022 /PRNewswire/ -- The "Global Cashew Nutshell Liquid (CNSL) Market by Product (PF Resins, Epoxy Resins, Epoxy Curing Agents, Surfactants, Polyols), Application (Adhesive, Coating, Foam, Laminate, Personal Care), and Region (Asia Pacific, North America, Europe) - Forecast to 2027" report has been added to ResearchAndMarkets.com's offering. The global cashew nutshell liquid (CNSL) market is estimated to be worth USD 393 million in 2022 and is projected to reach USD 564 million by 2027, at a CAGR of 7.5% between 2022 and 2027. Due to increasing environmental concern the stricter norms are being adopted, this is driving the CNSL market.

Coatings segment is projected to be the largest application of cashew nutshell liquid market

CNSL-based coatings provide excellent corrosion protection and meet environmental norms for VOC content. They provide year-round applications. These products provide excellent corrosion protection under extreme conditions while maintaining structural bond strength. CNSL-modified hydrocarbons have improved intercoat adhesion and flexibility while maintaining fast curing time and anticorrosion properties. CNSL-based products can also adhere to surfaces that are not prepared properly.

Phenol formaldehyde resins is one of the largest product type segment of the cashew nutshell liquid market

Cardanol is obtained from CNSL, a by-product of the cashew industry. CNSL contains anacardic acid, cardanol, cardol, 2- methylcardol, and unidentified polymeric material. Due to the presence of the phenolic groups in cardanol, it is used as a natural substitute for phenol in the PF resin. Novolac and resol resins are synthesized with partial substitution with cardanol. The proportion in which substitution is made impacts the mechanical and thermal properties of the resulting resin.

South America is the fastest-growing market for cashew nutshell liquid during the forecast period

The CNSL market in South America includes Brazil and Rest of South America. Brazil leads the production and consumption of the CNSL market in the region. Recovery in the Brazilian economy has widened the growth prospects for the CNSL market. The demand for CNSL in this region is projected to grow higher than in other regions, such as Asia Pacific, North America, and Europe. South America shows great potential for the growth of the CNSL market as countries such as Brazil are planning to increase CNSL exports to other countries.

CNSL is widely used bio-based products that can enhance the product performance while meeting stringent environmental norms. South America is an emerging market; it provides a great opportunity for global chemical manufacturers to expand and generate considerable demand in the future

Read the full report : https://www.researchandmarkets.com/r/ytrpix

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

Worldwide Food Grade Phosphoric Acid Industry to 2027 - Featuring Arkema, ICL Group and Nutrien Among Others

DUBLIN, June 20, 2022 /PRNewswire/ -- The "Food Grade Phosphoric Acid Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027" report has been added to ResearchAndMarkets.com's offering.

The global food grade phosphoric acid

market reached a value of US$ 2.24 Billion in 2021. Looking forward, the publisher expects the market to reach a value of US$ 2.91 Billion by 2027 exhibiting a CAGR of 4.10% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic. These insights are included in the report as a major market contributor.

Food grade phosphoric acid is a colorless and odorless inorganic acid that is suitable for consumption. It is manufactured through wet, thermal and dry kiln processes and is widely used as an acidity regulator and nutrition agent for yeast that can be used in light beverages, canned foods and wines.

Food grade phosphoric acid is primarily used to preserve and acidify foods and beverages, such as colas and jams, and provide a sour and tangy taste to the products. It is also utilized for beverage production, metal treatment, sugar refining and food preservation. It is commonly stored and packaged in an intermediate bulk container (IBC) and high-density polyethylene (HDPE) drums and is widely used in the production of carbonated beverages, packaged food items and bakery products.

Read the full report : https://www.researchandmarkets.com/r/c9dn2j

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Worldwide Microfibrillated Cellulose Industry to 2028 - by Manufacturing Process, Distribution Channel and Region

DUBLIN, June 17, 2022 /PRNewswire/ -- The "Microfibrillated Cellulose Market - Size, Share, Outlook, and Opportunity Analysis, 2021 - 2028" report has been added to ResearchAndMarkets.com's offering.

Microfibrillated cellulose is produced by mechanical treatment with or without enzymatic or chemical pre-treatment. The Microfibrillated cellulose consists of long and thin fibers, which form a three-dimensional network. MFC has high viscosity and yield stress, it is shear thinning and has high water holding capacity. The size distribution of the fibers is wide, and even if some fibers have diameters in nanoscale, there are a lot of bigger fibers as well. Moreover, the fibers are in a network structure and interconnected to each other.

The threat of climate change and environmental degradation is increasing day by day. The primary benefit of using microfibrillated cellulose is that it can bolster strength and reduce the weight of fiber materials in a sustainable manner, by generating end products with reduced material volumes, without compromising on performance. There is significant demand for microfibrillated cellulose in paper and packaging applications. However, microfibrillated cellulose market has not strongly developed in all other applications, which drive the players to focus on research and development of microfibrillated cellulose to meet specifications required for particular applications.

Microfibrillated cellulose are bio-based materials and are synthesized from wood pulp. This natural product caters to various industries including paper, packaging, and others. Thus, the increasing demand for biodegradable products is expected to drive the growth of the microfibrillated cellulose market globally during the forecast period. Microfibrillated cellulose are bio-based additive that improves rheology, stability, and has very high water retention capability. Growing demand for sustainable and green packaging solutions is expected to drive global microfibrillated cellulose market during the forecast period.

Microfibrillated cellulose are prepared by biosynthesis of monosaccharaides or the fermentation of cellulose fibers by using enzymes to reduce their size. This procedure is time consuming and require more expensive reagents. Microfibrillated cellulose are used as a natural performance enhancer for bio-based packaging material, offering stronger durability while also fulfilling international food safety standards, making it ideal for paper and packaging industry.

However, less awareness about microfibrillated cellulose in various emerging and underdeveloped countries is expected to restrain the market growth. The lack of universal directives pertaining to applications of microfibrillated cellulose is also restraining the market growth.

Read the full report : https://www.researchandmarkets.com/r/e35zrg

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

Archroma and Baldwin to Collaborate for Optimized Performance and Resource Saving in Textile Finishing

Pratteln, Switzerland, and St. Louis, Missouri, USA, 15 June 2022 - Archroma, a global leader in specialty chemicals towards sustainable solutions, and Baldwin, a leading global manufacturer and supplier of precision spray systems and technology for sustainable textile manufacturing, announce a new collaboration to optimize performance and resource saving in the finishing department.

The two companies aim to support textile manufacturers in their development projects, targeting to improve their product safety, performance and functionality, while at the same time maximizing the productivity and resource utilization of the finishing application process.

Archroma and Baldwin are collaborating in multiple projects that combine Archroma's most sustainable product innovations with Baldwin's Texcoat G4.

TexCoat G4 is a non-contact spray technology for textile finishing and re-moistening, designed to allow a controlled and optimal coverage of the exact amount of finish chemistry for reaching specific characteristics of the fabric. The system can be used to reduce water consumption by as much as 50% compared to traditional padding application processes.

Archroma and Baldwin are currently testing Archroma's finishing products and systems, such as the soon-to-be-launched PFC-free* Smartrepel® Hydro SR for water-based soil repellence, as well as metal and inorganic particle-free antimicrobial technologies like Sanitized T 20-19 and TH 15-14, which will be launched at the upcoming Techtextil 2022.

The first test results will be available for discussions with both partners at Techtextil at their respective booths.

Michael Schuhmann, Business Development Manager for Finishing, at Archroma, comments: "We are very excited to collaborate with Baldwin, a company who shares our vision that it is possible to create textile fabrics and articles that are safer for the user and better for our planet. Because it's our nature."

Rick Stanford, Baldwin Technology's Vice President of Global Business Development for Textiles said, "No question Archroma is one of the most recognized global suppliers of specialty chemistry for textile. We are honored to partner with Archroma to bring optimized and sustainable solutions to an industry that is serious about protecting consumers and reducing its environmental impact."

Source : Chemical Market

Devan Lives up to its Sustainability Legacy and Expands Cooling Technology Range

RONSE, BELGIUM – Heimtextil Frankfurt 2022 is not really the winter fair people are used to visit. Temperatures will be more summer-like. For Devan, the same recipe holds though: launch novel technologies to the Home Textiles market!

The first innovation Devan is showing to the world is a range of bio-based and biodegradable microcapsules. With increased sustainability and circularity requirements in Europe and beyond, Devan is pushing the limits further of its encapsulation methods, also in terms of wash durability. The capsules are bio-

(Continue on Page 43)

MITSUBISHI LOGISNEXT AMERICAS GROUP LAUNCHES TWO NEW UNICARRIERS FORKLIFT 80-VOLT ELECTRIC PNEUMATICS TRUCKS (AUTOMOBILES)

MARENGO, Ill., June 21, 2022 / PRNewswire/ -- Mitsubishi Logisnext Americas group, the exclusive manufacturer and provider of UniCarriers® Forklifts across North, Central and South America, announced today the official launch of the MX2 and MXL Series 4-wheel electric pneumatic forklifts with 5,000-7,000 and 9,000-12,000 lb capacities. These battery-powered forklifts are available to all UniCarriers brand dealers across North and South America, as well as the Caribbean.

- Models range from 5,000 to 12,000 lb in capacity.
- Dependable performance, quiet operation, and adaptability, all while meeting a zero-emission footprint.
- Long-lasting battery enhances performance by minimizing the need for frequent charging or changes.
- Advanced technology such as acceleration boost provides additional power to the motor when the system senses speed reduction.
- Sealed wet disc brakes minimize brake wear and extend timing needed between brake service helping to reduce maintenance costs and total cost of ownership.
- Excellent visibility as a result of optimized mast, steering wheel, inclined and narrow dashboard and counterweight design, maximizes visibility to load, forks, front and rear wheels for sage, confident operation in tight spaces.

"We're excited to introduce our new forklift series, which provide the same quality and reliability our products are known for, but with a longer runtime for maximum performance in the field," said Niels Tolboom, director, North American Sales for UniCarriers Forklifts at Mitsubishi Logisnext Americas. "These additional features and advancements bring out the best of an operator's time, ultimately delivering ideal uptime and productivity during a day's work."

Source : PRNewswire

ELON MUSK VS THE WORLD IN THE END THE TRUTH WILL PREVAIL

The world is currently run by petro $. There is a direct hit to it from @tesla and @elonmusk. How?

1. First is to understand countries which are a part of OPEC. The Organization of the Petroleum Exporting Countries (OPEC) was founded in Baghdad, Iraq, with the signing of an agreement in September 1960 by five countries namely

1 Islamic Republic of Iran
2 Iraq
3 Kuwait
4 Saudi Arabia
5 Venezuela

These countries were later joined by

6 Qatar (1961),
7 Indonesia (1962),
8 Libya (1962),
9 United Arab Emirates (1967),
10 Algeria (1969),
11 Nigeria (1971),
12 Ecuador (1973),
13 Gabon (1975),
14 Angola (2007),
15 Equatorial Guinea (2017)
16 Congo (2018)
17 Ecuador

- Ecuador withdrew its membership of OPEC effective 1 January 2020.
- Indonesia suspended its membership of OPEC on 30 November 2016.
- Gabon terminated its membership in January 1995. However, it rejoined the Organization in July 2016.
- Qatar terminated its membership on 1 January 2019
- This means that, currently, the Organization has a total of 13 Member Countries.

Source: https://www.opec.org/opec_web/en/about_us/25.htm

So for the sale of oil, these countries get US $. Some of these countries are either ruled by Kings like Qatar, Saudi Arabia Kuwait, some are corrupt and economically failed countries like Venezuela, Nigeria, Angola, Congo and some are just

there without any controversies highlighted on the global level but the oil money is definitely going in the wrong hands and not to the people of the country. They suppress any news coming out from there on a global level.

Majority of the oil production is controlled by the Islamic countries mostly Saudi Arabia, Qatar, Kuwait Iran and Iraq. There are sanctions by US on Iran and Iraq. Who benefits the most? Saudi Arabia is the largest beneficiary among all at this stage. Iran and Iraq are biggest trade partners as both governments operate on a Shi'ite system of governance.

While Saudi Arabia and Iran - two powerful neighbors - are locked in a fierce struggle for regional dominance. The decades-old feud between them is exacerbated by religious differences. So there are groups who wants to control the world oil prices but mostly the controlling power of these groups is none other than US because it provides $ in exchange for the oil. $ is a reserve currency and is used, saved and transacted all over the world.

$ equivalence was gold once upon a time, however The US government held the $35 per ounce price until August 15, 1971, when President Richard Nixon announced that the United States would no longer convert dollars to gold at a fixed value, thus completely abandoning the gold standard in order to address the country's inflation problem and to discourage foreign governments from redeeming more and more dollars for gold.

Petrodollars are not a currency; they're simply U.S. dollars that have been exchanged for crude oil exports. The term rose to economic and political prominence in the mid-1970s amid growing interdependence between the U.S. and crude oil exporters.

2. Where is Russia in all of this? Russia provides oil/natural gas to Europe.

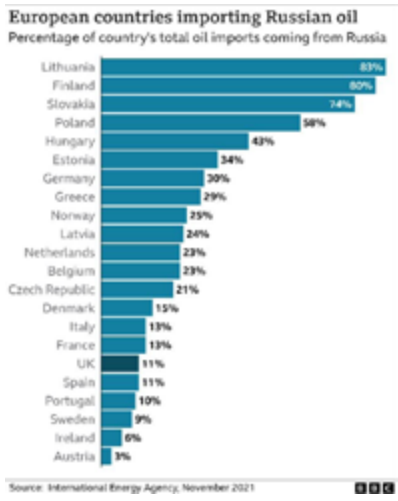


Image Courtesy: https://www.bbc.com/news/58888451

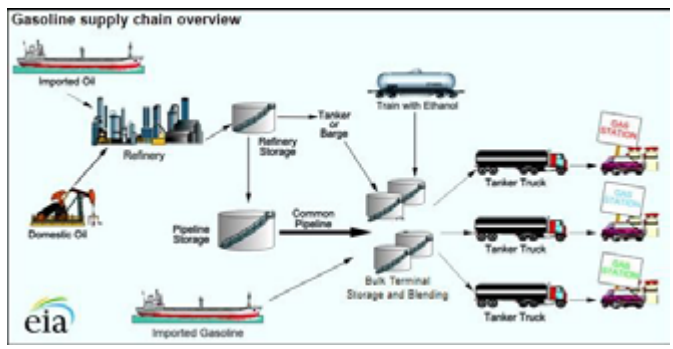
3. How can all this be replaced? The mess that was created by the United States to control inflation in 1971 and removing the gold standard with US$ so that it can run the economy with the roads infrastructure with billions of cars running on them with the gasoline provided by these OPEC countries.

Now, if one man aka ELON MUSK comes in and says this was all the drama caused by the US government to make it's currency dominant on a global level and we don't need oil, natural gas and other pollution creating, climate change causing fossil fuels and the energy is available from the sun and is sustainable, non-polluting and from recyclable natural resources like nickel, cobalt, lithium, copper by creating batteries and then charging them again from the SUN and nuclear power stations, then what will be the reaction of the US Government, the oil cartel, the Russians and the other oil/gas suppliers?

They will all want this guy to be punished and potentially be harmed because he is disrupting the entire ecosystem that was created with petro dollars and were very happy with everything so far. The poor remained poor, the rich became richer including people and countries (by printing more dollars) but now things are about to change as oil will not be used anymore going forward, natural gas will be replaced with power from the sun stored in lithium ion batteries via solar panels, wind and hydro power

Also disruption is taking place on a level and the people affected are:

- First and foremost these oil producing countries
- small and big business that deal in ICE manufacturing like the parts suppliers,
- the car dealers,
- the automobile insurance companies,
- the automobile repair shops where you pay $50-$70 every 3-4 months for engine oil change and 100's of dollars for parts in the ICE eco-system. The revenue of all the people working in the ICE eco-system would collapse
- the gas stations where you fill your tank with petrol or diesel
- the logistics providers who help



move the gasoline products from ships to trucks to container and vessels providers

- the oil extractor companies and oil rig companies involved
- and may be many others in the gasoline supply chain (image below)

BUT what are the benefits of bringing on the Electric Vehicles to the world!

One of the most important benefits is well expressed in this image below provided by 2018 Infosys Analysis of Electric Vehicles. It is called the circular economy. https://www.infosys.com/industries/automotive/white-papers/documents/disruptor-automotive-ecosystem.pdf

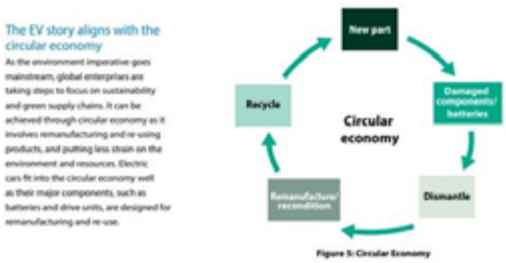


Figure 5: Circular Economy

Image Courtesy: https://www.infosys.com/industries/automotive/white-papers/documents/disruptor-automotive-ecosystem.pdf

On top of it there will be many innovations like FSD, Speed, Ease of use, home charging etc, however the most important thing is to understand how it will impact people and the environment.

1. People will not pay much for ICE components when it goes bad. In fact, there are about 20 moving parts in an electric engine, compared to nearly 2,000 in ICE vehicles!

2. Cost of charging an EV will be much cheaper than the cost of refueling with gas (see below chart from an article from CNBC)

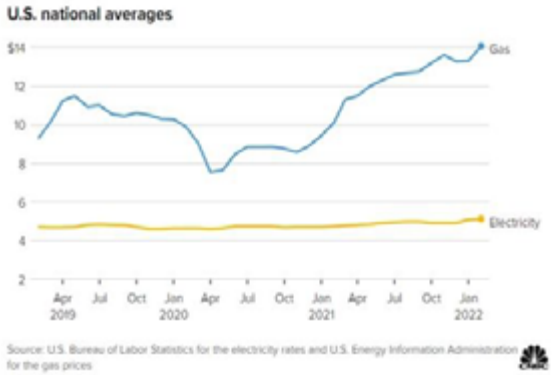


Image Courtesy: https://www.cnbc.com/2022/03/19/cost-of-charging-ev-vs-gas-prices.html

3. No engine oil change cost forever! Think about it, how amazing it will be to not schedule an appointment with the car dealer or an automobile repair shop for engine oil changes or to get rid of the oil change blinking light on your car dashboard!

4. Solution to climate change. The weather and the lungs will be thankful! Lesser natural calamities.

5. Sustainability, recycling and re-use without affecting the environment. When you open your car window on a heavy traffic highway, you won't smell gasoline and the fumes that affect your lungs!

6. Sun, wind, water carefully managed nuclear power plants and non-harmful basic chemical reaction in batteries will provide energy. In fact, there are studies that prove that you can power the entire US from the sun by installing solar panels, wind mills and hydro power stations. Studies claim that we do not need natural gas or gasoline or any other fossil fuels to turn the lights on!

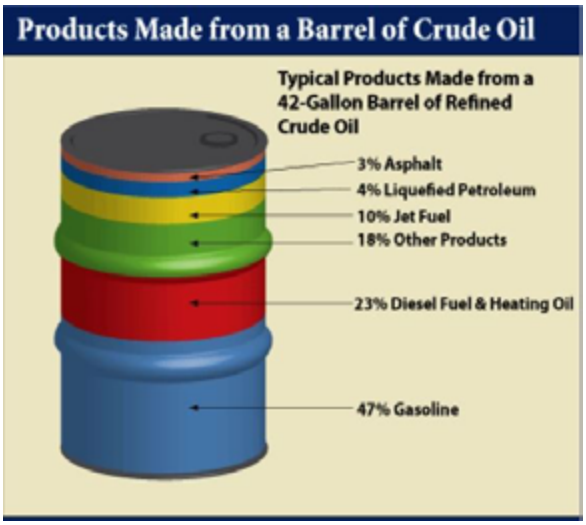
Balancing Inflation! The FED is already working to control inflation by increasing the interest rates. This is a cycle that happens every few years. But this time it's different! As the cost of travel will decrease over time due to less use of ICE cars, government spending on gasoline will decrease. There will be less amount spent on gas in the coming years and hence will balance out for the cost of other commodities or may be lower the cost of living once oil $ stays with the government instead of spending on importing/producing oil. People always create noise when $ expense from their pockets is increased due to high cost of gasoline, but they never make the same noise when they will save so much on travel, gas and insurance, car parts, engine oil change, etc once they have the EVs.

That's a separate article on how these OPEC countries and Russia will make money once we stop using or reduce the use of natural gas and oil. But as for now, they are trying their best to shun Elon Musk and the EVs. US Government is in the middle of everything because it started this shit by paying $ for oil and now it will be responsible for further fixing the issue. Moreover the US government whether democratic or republican; is indebted to the Union leaders as it might have provided both the parties with loads of money during and before the election. But on a higher level, if the United States government takes responsibility and does things which are ethically important, it will survive. It will definitely hurt the union leaders, the oil companies and people involved in the ICE world, but it will reclaim its spot as a global leader by supporting EVs and Elon Musk, because as there is no way another Apple can come up in the smart phone world anytime soon, or another search engine like Google can come up in the internet world, there is no way another Tesla can take a leaders position in the EV world!

Last but not the least; it's not the end of the world for the oil producing countries:

It's not that the oil export and import will be completely shut once EVs come

into picture. The petroleum products include gasoline, distillates such as diesel fuel and heating oil, jet fuel, petrochemical feedstock, waxes, lubricating oils, and asphalt. Over 6,000 items are made from petroleum waste by-products, including: fertilizer, flooring (floor covering), perfume, insecticide, petroleum jelly, soap, vitamins and some essential amino acids. Oil can be used to make many products in a way that is more sustainable than use as a fuel, which creates pollution. The final products produced from the crude oil by products can have a higher value to prevent loss in revenue from low output of producing oil. So, it is definitely not the end of the world



for the OPEC countries. They can still make money by increasing the prices of its by-products and lowering the output to a sustainable level.

Image Courtesy: https://www.linkedin.com/pulse/10-energy-resources-serie-killing-last-barrel-oil-al-jaber/

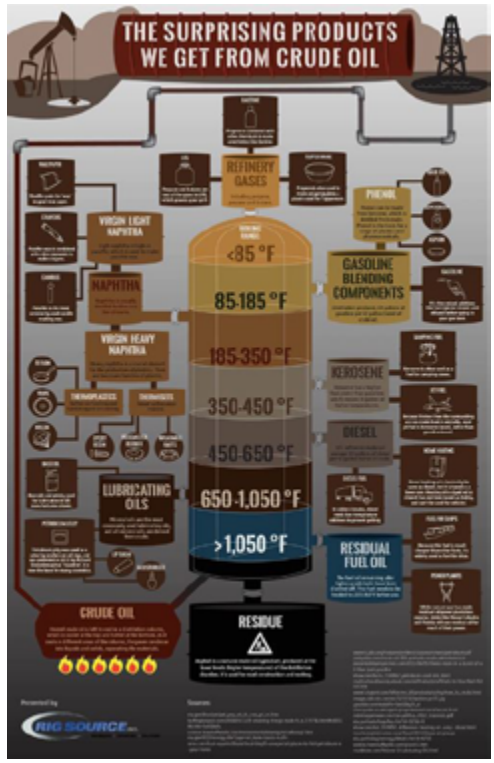
Other ways to generate diversified revenue instead of from gasoline is to enter other markets like how Saudi Arabia and United Arab Emirates have already started generating revenue from other sources like tourism and real estate. It will be a great world, if the right thing is done and United States should play an important role in this as a technology and nuclear superpower! Being a leader, it has to dictate terms either in a friendly manner or by use of diplomatic solutions. It's time to fix things, not make it worse!

But negating the affect of EVs and Elon Musk who is a brilliant human being is absolutely unnecessary and sick. It has to mend it ways to do the right thing then to be bought by corrupt union leaders, because the world is watching. China is taking notes on everything the US is doing. India is taking advantage by buying oil from Russia in Rubbles and Iran in Rupees. The eastern world is already boycotting the $ and it will lead of grave consequences if not handled well. The US government will be responsible for its own ill-actions. Let the results be of a positive effect as a world leader and super power instead of all the non-oil producing countries and cold war countries going against it. The people of US are aware and will act accordingly in a democratic 2 party country. It might take time, but ultimately it will happen. The world leaders are watching. The point is the US government should control its actions rather than just throwing away the control and creating conflict by doing the wrong things. The truth should and will prevail in the end!

https://i.pinimg.com/originals/d9/7b/e9/d97be96d46f6e4d1a21aab4e1e8ca04d.jpg

About the Author: Rajiv Parikh is a tech enthusiast, an engineer at heart and an entrepreneur. He is a Tesla Bull and owns Tesla stock. Irrespective of owning the tesla stock, he will always support the right thing.

The world is being run by oil majors and there is a lot of inequality all over the world and this inequal gap needs to be filled. The poor are struggling to make ends meet and the rich are loaded with cash. Hopefully, removing the oil dependency will bring the world on a level playing field and then



the countries innovation will bring in a new standard than what it is currently. https://twitter.com/rajivp-parikh

Source : Chemical Market

PADAGIS ANNOUNCES THREE MAJOR PRODUCT LAUNCHES

ALLEGAN, Mich., June 21, 2022 /PRNewswire/ -- Padagis announced today that within the last [thirty] days it has launched three major new products into the market. Those products are Naloxone Nasal Spray, 4mg (generic to Narcan®), Adapalene 0.3% with BPO Gel 2.5% (generic to Epiduo Forte®) and Betamethasone Ointment, 0.05%.

Narcan® is a prescription medicine used for the treatment of a known or suspected opioid overdose emergency with signs of breathing problems and severe sleepiness or not being able to respond. Annual market sales for Narcan® were approximately $294 million in the 12 months ended April 2022 as measured by IQVIA.

Epiduo Forte® is indicated for the topical treatment of acne vulgaris. Annual market sales for Epiduo Forte® were approximately $195 million in the 12 months ended April 2022 as measured by IQVIA.

Betamethasone Ointment, 0.05% is indicated for the relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses. Annual market sales for Betamethasone Ointment, 0.05% were approximately $27 million in the 12 months ended April 2022 as measured by IQVIA.

Padagis President and Chief Executive Officer, Sharon Kochan, stated "The Padagis team has been especially prolific in the last [thirty] days bringing three important new products to customers and patients who rely on high-quality generic products. The culmination of these launches is a result of years of hard work from our world-class development, manufacturing and commercial teams and are a further illustration of the depth and breadth of our pipeline. We are particularly proud to be one of only two approved ANDA's for Naloxone Nasal Spray which is a very important tool in the fight against the opioid epidemic in the United States."

Source : PRNewswire

MEDC BIOPHARMA PARTNERS WITH A2W PHARMA TO DEVELOP CANNABINOID THERAPEUTICS

ONTARIO, June 21, 2022 /PRNewswire/ -- MedC Biopharma announced a partnership with A2W Pharma of Malta in the development of MedC's proprietary novel cannabinoid formulations for the treatment of various cancer-related indications. A2W is a subsidiary of Amino Chemicals of Malta, which is a subsidiary of ABA Chemicals of China, a global pharmaceutical company

MedC Biopharm is focused on cannabinoid drug therapeutics. MedC's methodology rapidly screens for combinations of synergetic cannabinoids in treating various medical indications. Skin cancers are MedC's primary targets. MedC has discovered and developed so far 2 such patented cannabinoid combinations for the treatment of CTCL Sezary, CTCL MF and Actinic Keratosis.

A2W Pharma launched in April 2022 a new cannabinoid production facility in Malta and is focused on bridging the gaps that exist between pharmacology and medicine, providing better access to the benefits that lie within the cannabis plant.

Peter Paul Farrugia, Director of A2W: "A2W leverages 30 years' experience of its parent company: Amino Chemicals Ltd in API process development, GMP and regulatory compliance, and innovative routes to target cannabinoid molecules means we are the partner of choice for a successful launch of your pharmaceutical formulation".

The partnership between the organizations was led by Lilac Mandeles, CEO TechforCann and includes MedC's exclusivity with A2W and A2W's commitment to invest around 2 million euros directly in the drug development of MedC's patented CTCL treatments.

Lilac Mandeles" "The cooperation between both organizations will expedite MedC's clinical and commercial programs, overcoming regulatory challenges and bringing hope for skin cancer patients worldwide "

Avi Drori, CEO of MedC: "We are very excited about collaborating with A2W on our drug development program. A2W strategy fits

perfectly with ours, bridging the gap between cannabinoid-based medication and regulatory requirement through synthesized therapeutics which guarantees safety, consistency and predictability that both patient and doctors justly expect."

Source : PRNewswire

LAUNCH OF DYSVAL® CAPSULES 40MG FOR TREATMENT OF TARDIVE DYSKINESIA IN JAPAN

Mitsubishi Tanabe Pharma Corporation (Head Office: Chuo-ku, Osaka; Representative Director: Hiroaki Ueno; hereinafter, "MTPC"), a member of the Mitsubishi Chemical Holdings Group, announced today that MTPC is launching DYSVAL® capsules 40mg (generic name: valbenazine, DYSVAL) (the vesicular monoamine transporter type 2 (VMAT2) inhibitor) for the treatment of tardive dyskinesia in Japan following the inclusion of DYSVAL in the NHI drug price listing on May 25,2022.

As the first drug approved in Japan for the treatment of tardive dyskinesia, DYSVAL would provide patients with a once-daily treatment option in Japan.

Tardive dyskinesia is a neurologic disorder characterized by involuntary movement. Symptoms include uncontrollable, abnormal and repetitive movements of the tongue, lips, jaw, face, the extremities, and torso. Severe cases can lead to dysphagia or respiratory distress, which can be serious in some patients. Tardive dyskinesia arises from the long-term administration of antipsychotic drugs or other drugs. Increased sensitivity of dopamine receptors is considered to be a causal factor. MTPC wants to help patients who are suffering from tardive dyskinesia symptoms to establish an environment where they can receive treatment for their primary disease and also face treatment for tardive dyskinesia.

MTPC and Janssen Pharmaceutical K.K. (Janssen) with strengths in the neurology area concluded a co-promotion agreement concerning DYSVAL in Japan, in November 2021. Janssen will be responsible for the distribution of DYSVAL, and MTPC, Janssen and Yoshitomiyakuhin Corporation will jointly provide appropriate information to healthcare professionals in Japan.

MTPC Group, in collaboration with Janssen, is committed to contributing to the treatment of patients with tardive dyskinesia by providing prompt, thorough information provision.

Source : Mitsubishi Chemical

TAMPA GENERAL HOSPITAL OFFERS NEW TREATMENT OPTION FOR RECURRENT BRAIN CANCER TO IMPROVE QUALITY OF LIFE

TAMPA, Fla., July 8, 2022 /PRNewswire/ -- Tampa General Hospital and USF Health Morsani College of Medicine physicians are the first in Hillsborough County to bring patients experiencing recurring brain tumors a groundbreaking treatment.

Known as GammaTile, the FDA-cleared procedure places a bio-resorbable collagen tile the size of a postage stamp in the tumor site, immediately following surgery to remove the tumor. The procedure slows the progression of a returning brain tumor by immediately targeting residual tumor cells with precise gamma ray doses before those cells can significantly replicate.

"This new approach broadens future horizons as it increases options for patients with recurrent disease who can't tolerate more external radiation," said Dr. John David, assistant professor in the Department of Radiology in the USF Health Morsani College of Medicine and director of brachytherapy (internal radiation therapy) services and lead physician of radiopharmaceuticals at Tampa General. "GammaTile emits internal radiation in the specific area of the tumor as an additional treatment and it is a game changer for patients with recurrent brain tumors."

Every year in the United States, more than 200,000 people are diagnosed with aggressive brain tumors that spread rapidly, build resistance to some treatments and are often fatal. Surgical re-section, chemotherapy and radiation treatment have been the traditional approaches to combating these brain tumors such as glioblastomas, gliomas, and meningiomas.

GammaTile at Tampa General offers a potentially life-prolonging option when traditional methods, including chemotherapy and radiation, fail to stop the recurrence of aggressive brain cancers. Many patients with recurrent brain tumors have received levels of radiation therapy that make the risk of additional exposure outweigh the potential benefits of more treatment. As a result, these patients are left with surgery as their only option. Unfortunately, tumor-removal surgery alone is rarely enough to prevent the growth of residual cancer cells.

"GammaTile starts targeting any recurring tumor cells immediately upon

placement," said Dr. Richard Tuli, chair of the Department of Radiation Oncology at the USF Health Morsani College of Medicine, chief of radiation oncology at Tampa General and deputy director of the TGH Cancer Institute. "With traditional treatments, patients often had to wait for their surgical wounds to heal before undergoing radiation. Additionally, their treatment likely required multiple visits to receive the recommended dose. GammaTile allows for potentially life-saving radiation treatments to begin as soon as their surgery is complete. The introduction of this treatment is yet another example of the kind of innovation and multidisciplinary care that patients can expect from the TGH Cancer Institute."

In clinical trials, patients treated with GammaTile therapy required no additional trips to the hospital or clinic and could go about their daily lives. The tile is insulated except for a small area that allows the targeted dose to focus on the site most likely to have a recurrence, which spares healthy tissue and can limit such side effects as hair loss. The tile dissolves harmlessly, so no further surgery is required to remove it.

"By working as a team, neurosurgeons and radiation oncologists can employ this innovative treatment for recurring brain cancer right in the operating room, providing patients with a better quality of life," said Dr. Harry van Loveren, medical director of Neurosurgery at Tampa General and chair of the Department of Neurosurgery and Brain Repair at the USF Health Morsani College of Medicine. "This is a true multidisciplinary approach that takes the whole patient into account and gives each patient an opportunity to continue fighting brain cancer."

For more information about GammaTile and other innovative radiation oncology treatments offered at the TGH Cancer Institute, call 813-844-3903 or go to https://www.tgh.org/institutes-and-services/cancer-institute.

Source : PRNewswire

CHEMICAL TECHNOLOGY

EXXONMOBIL METHANOL TO JET TECHNOLOGY TO PROVIDE NEW ROUTE FOR SUSTAINABLE AVIATION FUEL PRODUCTION

Houston (June 20, 2022) – ExxonMobil today announced a unique process technology to enable the manufacture of sustainable aviation fuel (SAF) from renewable methanol.

- ExxonMobil is focused on growing its lower-emission fuels business by leveraging technology and infrastructure.
- ExxonMobil is engineering proprietary methanol to jet technology that will produce SAF when renewable methanol is used as feedstock.
- This expands upon ExxonMobil's suite of technology solutions that are engineered to manufacture SAF from other biofeeds.

"SAF produced from renewable methanol can play an important role in helping the aviation industry achieve the transition to a net-zero future. Reaching that goal by 2050 will require a multi-faceted approach, including advancements in aircraft-related technology, changes to infrastructure and operations, and a dramatic increase in SAF supply. Our process technology can be an important step in this direction," said Russ Green, ExxonMobil's lower-emission fuels venture executive

Proprietary Methanol to Jet Technology

ExxonMobil has a long history of developing advantaged proprietary process technologies and catalysts to make energy products that society needs. ExxonMobil is leveraging its core capabilities to develop a solution that converts methanol to SAF.

Methanol derived from the gasification of biomass and waste, as well as from lower-carbon hydrogen and captured carbon dioxide (CO_2), can be converted into SAF using ExxonMobil's methanol to jet proprietary process technology and catalysts. Preliminary estimates by

ExxonMobil suggest that this solution has a higher yield of jet fuel than other options. The ExxonMobil solution also provides the flexibility to use a mix of alcohols as feedstock and produce renewable diesel and lower-carbon chemical feedstocks.

"Methanol to jet technology is scalable and suitable for the conversion of methanol produced from today's world-scale plants. The work necessary to qualify the resulting renewable jet fuel pathway has already started," said James Ritchie, president of ExxonMobil Catalysts and Licensing LLC.

Technology to Convert Other Biofeeds to SAF

Additionally, ExxonMobil has process technology and catalysts that are available to customers today which convert other renewable biofeeds, such as used cooking oils, animal fats, and vegetable oil, into renewable jet fuel. Our analysis shows that our BIDWTM isomerization catalyst provides a jet fuel yield advantage versus alternatives currently available.

Decarbonization and Hydrogen Solutions

ExxonMobil is evaluating opportunities to deploy these process technology solutions within a portfolio of options to help the aviation industry to decarbonize.

"ExxonMobil is advancing integrated solutions to extend our Carbon Capture & Storage (CCS) and Hydrogen capabilities to support the decarbonization objectives of our biofuels customers and partners," said Siva Ariyapadi, bioenergy global business manager.

Source : ExxonMobil

LAUNCH A CHEMICAL RECYCLING PROJECT OF FLEXIBLE POLYURETHANE FOAM USING MICROWAVE-BASED TECHNOLOGY

Mitsui Chemicals, Inc. (Tokyo: 4183; President & CEO: HASHIMOTO Osamu) and Microwave Chemical Co., Ltd. (Suita, Osaka; CEO: YOSHINO Iwao) have launched a new initiative aiming to commercialize chemical recycling of flexible polyurethane foam using microwave technology. The project involves directly producing raw materials by decomposing offcuts of the foam used to manufacture mattresses and the like.

Flexible polyurethane foam is a resin foam principally consisting of polyols and isocyanates whose main features are its softness and high resilience. These characteristics have led to the flexible foam's use in a wide range of applications from industrial goods and materials to daily necessities, including mattresses, car seats, chair cushions and even kitchen sponges. However, chemical recycling of flexible polyurethane foam and other polyurethanes has not yet been achieved at the commercial level in Japan. Therefore, the development and commercialization of such technology is a pressing issue from the perspective of contributing for a circular economy.

Using the PlaWave™ microwave-based plastic decomposition technology developed by Microwave Chemical, the processing time of decomposing flexible polyurethane foam is expected to be at half or shorter and substantially reduce energy consumption compared with existing technologies. The microwave technology will also contribute to reducing CO2 emissions, as its efficiency will reduce costs and enable the process to be powered by electricity generated from renewable energy.

Since the initial test achieved positive results, the project will proceed to small-scale demonstration using Microwave Chemical's bench-scale demonstration device by March 2023 and move on to further examination, with the objective of commencing demonstration tests in March 2024 and commercializing the technology by March 2026. In tandem with demonstration tests, we will build a business model that encompasses the whole value chain for the recycling of flexible polyurethane foam to realize a circular economy.

Source : Mitsui Chemicals

NEW LICITY® GRADE WITH IMPROVED PROPERTIES OPTIMIZED FOR ANODES WITH A SILICON CONTENT EXCEEDING 20%

- Anode binder Licity® 2698 X F enables higher capacity, increased number of charge/discharge cycles and reduced charging times
- Second-generation styrene-butadiene rubber (SBR) binder with excellent stress-strain properties and elasticity
- Highly suitable for SiOx and Si-rich anodes

BASF has extended its series of Licity® anode binders for Li-ion battery manufacturing. The second-generation styrene-butadiene rubber (SBR) binder Licity® 2698 X F facilitates the use of silicon contents exceeding 20%. In addition to the established properties of the Licity® product family, this binder enables higher capacity, increased number of charge/discharge cycles and reduced charging times.

Additionally, Licity® 2698 X F can be manufactured according to the biomass balance approach. In this approach, biomass is fed into BASF's production process and allocated to the binder. BASF is committed to aligning economic goals with environmental and social responsibility, from the raw materials used for Licity® binders up to their delivery.

"The transformation of the market from combustion engines to battery electric vehicles is becoming more tangible. Hurdles such as low range and long charging times can be overcome by using our new binder Licity® 2698 X F," explains Thorsten Habeck, Business Director Fiber Bonding Dispersions & Resins EMEA at BASF.

Source : BASF

ARCHROMA TO INTRODUCE PERAPRET® AIR A GROUNDBREAKING AIR PURIFICATION TEXTILE TECHNOLOGY

Pratteln, Switzerland, 20 June 2022 - Archroma, a global leader in specialty chemicals towards sustainable solutions, launches Perapret® AIR liq, a new industry-leading, light-activated air purification technology for all kinds of fabrics.

The new innovation will be presented at the Techtextil exhibition starting on June 21, 2022 in Frankfurt, Germany (see details below).

The innovation has been developed in line with the principles of "The Archroma Way to a Sustainable World: Safe, efficient, enhanced, it's our nature".

The mineral-based Perapret® AIR liq eliminates air pollutants and airborne smells by imitating the natural process of photocatalysis under normal day and artificial light sources.

The chemistry usually used in such applications is nano-sized TiO2 (dioxide titanium), which attack every organic matter, including the textile fiber, and not only pollutants.

Perapret® AIR liq is produced using a unique and patented Core Shell technology that partially surrounds the TiO2 molecules, solving the issue of fiber damage, and at the same time still allowing the photocatalytic process to work efficiently.

Therefore, the innovative Core Shell technology behind Perapret® AIR liq makes it possible to use the capabilities of nano-sized TiO2 also on organic based substances such as cotton, polyester, polyamide, viscose and any additional fiber and its blends.

In addition, the treatment is highly durable, as the product doesn't self-consume and retains its performance over time.

Perapret® AIR liq is ideally suited for indoor applications, such as curtains, textile wall coverings, as well as cars and other automotive interiors, allowing to reduce air pollutants and airborne smells and thus improving overall air quality*.

The technology is at the core of CLEAN AIR, a new system that combines Perapret® AIR liq with other recent innovations such as Smartrepel® Hydro TS liq for PFC-free** durable water repellence, and Sanitized® T27-22 liq antimicrobial agent.

Source : Chemical Market

SABIC LAUNCHES ISCC PLUS CERTIFIED PP COMPOUNDS & STAMAX™ RESINS BASED ON RENEWABLE AND RECYCLED FEEDSTOCK

- SABIC's site in Genk, Belgium, is the industry-first to receive International Sustainability & Carbon Certification (ISCC) Plus accreditation for large-scale production of polypropylene (PP) compounds and STAMAX™ resins based on renewable and circular sources
- ISCC Plus certification of Genk plant by TÜV Nord underscores SABIC's commitment to building a more circular plastics industry

SABIC, a global leader in the chemical industry, has announced that its production of a new range of SABIC® polypropylene (PP) compounds and STAMAX™ PP resins based on bio-renewable and advanced recycled feedstock at Genk, Belgium, has received TÜV Nord accreditation under the International Sustainability & Carbon Certification (ISCC) PLUS scheme. This certified product offering aligns with SABIC's extensive TRUCIRCLE™ initiative for accelerating the transition of the plastics industry to a circular economy and meets a globally growing customer demand for more sustainable material solutions.

"We are extremely proud of being the first in the industry to obtain ISCC Plus certification for PP compounds and resins produced with feedstock from renewable and recycled sources. This gives our PP customers a valid alternative for enhancing their environmental balance and achieving ambitious sustainability targets," says Lada Kurelec, General Manager for PP & E4P Business, SABIC. "The large-scale production of these new materials at our manufacturing site in Genk also ensures security of supply, while it contributes to our efforts of mitigating the impact of our products on climate change and fossil depletion."

The ISCC Plus certification honors the implementation of a mass balance accounting system that traces the material flow across complex supply chains from the feedstock to final products. The approach allows OEMs to document and quantify the sustainability of their applications made from certified materials. Moreover, brand owners can use the certification to highlight the sustainable material content of their products, offering consumers a more responsible choice. The mass balance accounting follows predefined and transparent rules, which then define whether a product can be classified as renewable or circular.

For SABIC, this means that for each ton of renewable or circular feedstock fed into the production process to substitute fossil-based feedstock, approximately one ton of the output material can be classified as either renewable or circular.

In addition, SABIC has performed a life cycle analysis (LCA) comparing the renewable and the traditional fossil-based routes according to PAS 2050 methodology for biogenic carbon accounting. The results show significant Global Warming Potential (GWP) reductions, with near CO2 neutrality achieved at a renewable content of 40 percent. On cradle-to-gate and cradle-to-gate plus end-of-life levels, each kilogram of SABIC® PP compound based on certified renewable feedstock can reduce fossil depletion by up to 40 percent and lessen the carbon footprint of applications by up to 95 percent.

Certified bio-renewable based SABIC PP compounds are targeted at high-performance automotive applications, from bumpers and painted or unpainted exterior trim components to interior door panels, instrument panels and visible interior trim. Certified bio-renewable based long-glass-fiber reinforced polypropylene STAMAX resins are targeted at structural automotive applications such as front-end carriers, instrument panel carriers, tailgate structures, door modules and others.

Certified bio-renewable based SABIC PP compounds and STAMAX resins can replace corresponding SABIC fossil-based grades with no need of lengthy technical validation, as they offer the exact same level of performance and quality.

SABIC's certified renewable and certified circular polymer products form part of the company's TRUCIRCLE portfolio and services. The offering also includes design for recyclability, mechanically recycled products, materials based on ocean bound plastic feedstock and closed loop initiatives – all aiming to recycle plastic back into high quality applications and help prevent valuable used plastics from becoming waste.

Source : Sabic

POLYPLASTICS-EVONIK AND TORAY CO-DEVELOP MULTILAYER PLASTIC TUBE MATERIAL OFFERING LONG-TERM AND HYDROLYSIS RESISTANCE

Tokyo, Japan, June 9 2022 – Polyplastics-Evonik Corporation and Toray Industries, Inc., announced today that they have jointly developed an adhesive for bonding polyamide (PA) and polyphenylene sulfide (PPS) resins, and have developed a multilayer plastic tube (MLT) configuration for cooling lines that employs Toray's TORELINA® PPS resin for the inner layer and Polyplastics-Evonik's PA 12 for the outer layer.

The new MLT setup can resist temperatures of around 130°C, significantly higher than conventional counterparts. Ion leaching in cooling water is low. The two companies envisage offering the new tube material for cooling lines in automobiles as well as in industrial machinery and other general applications.

Recent years have seen deployments increase of PA mono layer tubes and MLT with polypropylene inner layers to reduce weight and reduce fuel consumption. The downside is that heat resistance and hydrolysis issues with these conventional plastic tubes limited their use to lines for relatively low-temperature cooling water.

PPS offers excellent heat and hydrolysis resistance and can resolve these issues as a material for tube inner layers. A need emerged to develop an adhesive material because it is impossible to directly bond PPS with PA 12 and other long-chain PAs commonly used in outer layers of automotive tubing.
Polyplastics-Evonik and Toray accordingly joined hands to develop an adhesive material that can bond those resins. They combined their polymer technologies with Toray's polymer alloy technology. The result was a material that delivers excellent adhesion between PA and PPS to deliver stable extrusion molding for MLT. The adhesive enables an MLT configuration comprising a PPS inner layer and PA 12 outer layer.

This configuration facilitates molding with standard plastic tube extrusion equipment. Corrugated molding is also possible, enabling production in various shapes without compromising mechanical robustness. Envisaged uses for the two companies' new technology are to replace metal automotive cooling lines, especially in locations with flows of high-temperature cooling water, and to take advantage of its low ion leaching for adoption in cooling lines for electric and fuel cell vehicles.

As well as offering the new MLTs with PPS inner layers, Polyplastics-Evonik will market regular PA mono layer and multilayer tubes. The company will thereby help reduce automotive carbon dioxide while continuing to provide detailed technical support to customers in the drive to materialize a sustainable economy.

Toray is the world's only PPS manufacturer to integrate the production of monomers, polymers and compounds, and has the world's greatest PPS polymer production capacity. By commercializing the

new material for multi-layered resin tubes with a PPS inner layer, the company aims to contribute to next-generation automobile development, and, like Polyplastics-Evonik, help create a sustainable economy.

TORELINA® is a registered trademark of Toray Industries, Inc.

Source : Toray

JOHNSON MATTHEY LAUNCHES NEW LOW CARBON SOLUTIONS OFFERING TO REDUCE SYNGAS CARBON EMISSIONS BY UP TO 95%

LONDON, June 21, 2022 /PRNewswire/ -- Johnson Matthey (JM), a global leader in syngas production technologies, today launches CLEANPACETM, a suite of ready-now technologies to retrofit existing grey hydrogen and methanol assets and reduce carbon emissions by up to 95%. Working together, JM is integrating its established Advanced ReformingTM technologies with leading pre-combustion CO2 capture providers, to deliver cost effective decarbonisation solutions. CLEANPACE will allow producers across the syngas value chain to retrofit existing assets resulting in significant and sustained carbon emissions reductions.

JM's CLEANPACE retrofit technologies enable CO2

reductions of up to 95% at a low upfront cost and minimized plot space versus competing options, while providing tailored benefits to further futureproof existing plants. With hundreds of mid to world scale syngas production plants in operation, many of which are less than 20 years old and still being depreciated, operators are able to retrofit their existing assets with CLEANPACE solutions and begin decarbonizing today.

Industrial sectors are ramping up efforts to reduce their greenhouse gas emissions, particularly from hard-to-abate sources, with syngas producers responsible for approximately 70% of CO2 emissions in the chemicals sector. The opportunity for JM's Low Carbon Solutions is to reduce CO2 emissions by over 100 million tonnes per year by 2030 from grey hydrogen production in Europe and North America alone, which represents 150-200 projects with an addressable market of £1-2 billion.
Jane Toogood, Catalyst Technologies Chief Executive at JM, says: "The need for chemicals companies to decarbonise their existing facilities is well recognised and Johnson Matthey's CLEANPACE technology solutions are ready now for deployment by companies who are making progress on this path."

Johnson Matthey is a global leader in sustainable technologies that enable a cleaner and healthier world. With over 200 years of sustained commitment to innovation and technological breakthroughs, we improve the performance, function and safety of our customers' products. Our science has a global impact in areas such as low emission transport, energy, chemical processing and making the most efficient use of the planet's natural resources. Today about 15,000 Johnson Matthey professionals collaborate with our network of customers and partners to make a real difference to the world around us. For more information, visit www.matthey.com

Source : PRNewswire

SABIC COLLABORATES WITH UPM RAFLATAC TO LAUNCH THE WORLD'S FIRST LABEL MATERIAL MADE FROM CERTIFIED CIRCULAR OCEAN BOUND PLASTIC

- UPM Raflatac's new Ocean Action label is the first made using SABIC's certified circular polyolefins for packaging label applications
- Recovered ocean bound plastic (OBP) that has the potential to end up in our rivers and oceans is certified by Zero Plastic Oceans and Control Union
- The value chain collaboration with UPM Raflatac demonstrates how ocean bound plastic can be brought back into a circular material stream for conversion into high quality packaging labels

SABIC, a global leader in the chemical industry, has joined an innovative project with value chain partners to help UPM Raflatac launch the world's first packaging label materials made from SABIC® certified circular polypropylene (PP) based on advanced recycled ocean bound plastic (OBP). The label materials are marketed under the UPM Raflatac Ocean Action trademark.

"We are proud to offer our customers another more sustainable choice through the advanced recycling of used plastic that could otherwise end up in our rivers and oceans," adds Lada Kurelec, General Manager PP, PET, PS, PVC, PU & Elastomers Businesses for Petrochemicals at SABIC. "These labels containing ocean bound plastic connect with our TRUCIRCLE™ program of circular solutions designed to help reduce plastic waste, mitigate fossil depletion and protect our planet."

Ocean bound plastic is abandoned plastic waste found in areas up to 50 km inland from waterways that may eventually be washed into the ocean by rainfall, rivers or tides. Zero Plastic Oceans, a non-governmental organization dedicated to addressing plastic pollution issues, has estimated that OBP from uncontrolled waste disposal accounts for 80 percent of marine plastic litter.

"The new innovative Ocean Action label material is the latest step in our beyond fossils journey. It does not only help prevent the plastic waste from ending up in the oceans but also offers brand owners the possibility to meet their recycled content targets for packaging. The Ocean Action label material is an easy-to-use drop-in solution created especially for food and cosmetics end-uses as it has exactly the same performance as the current fossil-based labels," says Eliisa Laurikainen, Business Develop-

ment Manager from UPM Raflatac.

The OBP used in the project is recovered by local partners of HHI, a Malaysia based recycling company. The sustainable sourcing, proper collection and management of the OBP is certified by Zero Plastic Oceans and Control Union. HHI converts OBP into a pyrolysis oil by using advanced recycling, and SABIC uses this oil as an alternative feedstock to produce certified circular SABIC PP polymer for further processing to film by Taghleef. Then, UPM Raflatac produces the label material.

The plastic waste used in the process value chain of making Ocean Action label material is certified under the Zero Plastics Oceans program, and the final label material under ISCC PLUS. This means that the material flow is controlled and tracked from the ocean bound plastic to the final packaging following a set of predefined and transparent rules.

The Ocean Action label material is available as White and Clear Top Coated PP films with RP37, RF37, and RP74 adhesives and PET 23 PCR and glassine liners. These label materials are a perfect fit for fast-moving consumer goods (FMCG), such as household goods, personal care, packaged foods, and beverages. Since the certified circular PP from SABIC performs the same way as comparable fossil-based virgin PP, the switch to the OBP material solution required no changes to the film and label material manufacturing processes.

SABIC's certified circular polymers form part of the company's TRUCIRCLE portfolio and services for circular solutions. The offering also includes design for recyclability, mechanically recycled products, certified renewable polymers from bio-based feedstock and closed loop initiatives to recycle plastic back into high quality applications and help prevent valuable used plastics from becoming waste.

Source : Sabic

INTERNATIONAL NEWS

BASF TO BUILD COMMERCIAL SCALE BATTERY RECYCLING BLACK MASS PLANT IN SCHWARZHEIDE, GERMANY

- **Annual processing capacity of 15,000 tons of EV batteries and production scrap**
- **BASF will close the loop from end-of-life batteries to CAM for new batteries, enabling a circular economy and reduced CO2 footprint**
- **Plant will be built to the highest EHS standards**

BASF will build a commercial scale battery recycling black mass plant in Schwarzheide, Germany. This investment strengthens BASF's cathode active materials (CAM) production and recycling hub in Schwarzheide. The site is an ideal location for the build-up of battery recycling activities given the presence of many EV car manufacturers and cell producers in Central Europe. This investment will create about 30 new production jobs, with startup planned for early 2024.

Black mass production is the first step in the battery recycling process and is based on mechanical treatment of the batteries. The produced black mass contains high amounts of the key metals used to produce CAM: lithium, nickel, cobalt and manganese. It will be the feedstock for the commercial hydrometallurgical refinery for battery recycling that BASF plans to build mid of this decade.

"With this investment in a commercial scale battery recycling black mass plant, we take the next step to establish the full battery recycling value chain at BASF. This allows us to optimize the end-to-end recycling process and reduce the CO2 footprint," said Dr. Peter Schuhmacher, President, Catalysts division at BASF. "The closed loop from end-of-life batteries to CAM for new batteries, supports our customers along the entire battery value chain, reduces the dependency from mined raw materials and enables a circular economy."

Battery recycling is an important lever to reduce the CO2 footprint of battery electric vehicles, and is key to meet ambitious, circularity-driven policy requirements, expected under the proposed EU Battery Regulation. These will cover recycling efficiency of lithium-ion batteries, as well as material recovery and recycled content targets for nickel, cobalt and lithium.

Source : BASF

TATA CHEMICALS EUROPE OPENS UK'S LARGEST CARBON CAPTURE PLANT

NORTHWICH, England, June 24, 2022 /PRNewswire/ -- Tata Chemicals Europe ("TCE") opened the UK's first industrial scale carbon capture and usage plant today, signalling a key mile-

stone in the race to meet the UK's net zero targets.

The £20 million investment has been completed by UK-based Tata Chemicals Europe, one of Europe's leading producers of sodium carbonate, salt and sodium bicarbonate. The plant captures 40,000 tonnes of carbon dioxide each year - the equivalent to taking over 20,000 cars off the roads and reduces TCE's carbon emissions by more than 10%. The project will help unlock the future of carbon capture as it demonstrates the viability of the technology to remove carbon dioxide from power plant emissions and to use it in high end manufacturing applications.

In a world-first, carbon dioxide captured from energy generation emissions is being purified to food and pharmaceutical grade and used as a raw material in the manufacture of sodium bicarbonate which will be known as Ecokarb®. This unique and innovative process is patented in the UK with further patents pending in key territories around the world. Ecokarb® will be exported to over 60 countries around the world. Much of the sodium bicarbonate exported will be used in haemodialysis to treat people living with kidney disease.

The carbon capture plant, which was supported with a £4.2m grant through the UK Department of Business, Energy and Industrial Strategy's ("BEIS") Energy Innovation Programme, marks a major step towards sustainable manufacturing which will see TCE make net zero sodium bicarbonate and one of the lowest carbon footprint sodium carbonate products in the world. These are used to make essential items like glass, washing detergents, pharmaceutical products, food, animal feed and in water purification.

Martin Ashcroft, Managing Director of Tata Chemicals Europe, said: "The completion of the carbon capture and utilisation plant enables us to reduce our carbon emissions, whilst securing our supply of high purity carbon dioxide, a critical raw material, helping us to grow the export of our pharmaceutical grade products across the world.

"With the support of our parent company, Tata Chemicals, and BEIS, we have been able to deliver this hugely innovative project, enabling our UK operations to take a major step in our carbon emissions reduction journey. Since 2000 we've reduced our carbon intensity by 50% and have a clear roadmap to reduce this by 80% by 2030."

Speaking about the opening of the plant, Secretary of State for Business and Energy, Kwasi Kwarteng, said: "This cutting-edge plant, backed by £4.2 million government funding, demonstrates how carbon capture is attracting new private capital into the UK and is boosting new innovation in green technologies.

"We are determined to make the UK a world-leader in carbon capture, which will help us reduce emissions and be a key part of the future of British industry."

Source : PRNewwire

CHEVRON PHILLIPS CHEMICAL TO BUILD NEW LOW VISCOSITY PAO UNIT IN BELGIUM TO ADDRESS GROWING WORLDWIDE DEMAND

Chevron Phillips Chemical ("CPChem") announced today plans to expand its polyalphaolefins (PAO) business with the construction of a new unit in Beringen, Belgium. Once local permits are approved, this significant investment will double the company's PAO production capacity in Belgium (to 120,000MT) upon targeted startup in 2024.

For over 40 years, CPChem has been a leader in the development of high-quality PAOs, which are marketed under the Synfluid® brand. PAOs are specially designed chemicals made from alpha olefins. They are used in many synthetic products such as lubricants, greases, and fluids and have emerged as essential components in applications including automotive, industrial, cosmetics, technology, and military use. "Our Beringen plant has a long history of safe, reliable production of PAOs and of serving our customers with excellence," said Mitch Eichelberger, executive vice president of polymers and specialties. "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."

Synfluid® PAOs offer strong advantages due to their unique properties, and they support the company's commitment to accelerating change for a sustainable future. PAOs help reduce energy consumption through efficient lubrication; by reducing friction, they can lower fuel consumption and emissions. The growing demand for PAOs is fueled by the performance of these molecules at extreme temperatures, and also by new applications such as electric and fuel-efficient vehicles and heat transfer fluid.

"Increased production from this new investment will be critical to support growing demand at a time of great innovation in several sectors that require PAOs," said Antoine Janssens, Europe Africa region general manager.

Ideally located in the heart of Europe, the new PAO unit will enjoy significant advantages in infrastructure, feedstock availability, and operational expertise. CPChem already operates PAO units in Beringen, Belgium, and Baytown, Texas. With this new investment, the company is reinforcing its commitment to being the supplier of choice for its growing global customer base.

Source : Chevron Phillips Chemical

Continued from Page 28

degradable and hence no harm for risk of microplastics. The new R-Vital NTL range includes evergreen Aloe Vera, waste-material based avocado seed oil (very high hydration abilities!) and Vitamine E.

Devan, as part of the Pulcra Chemicals Group, co-launches the new Pulcra TEC-SU, a new biobased C0 DWR. This hydrophobic agent has a bio-content above 60% and contains no APEO or formaldehyde. It keeps performing very good after multiple washings.

The Devan bio-based thermoregulation range, like Tones of Cool Bio which is already several years on the market, is having a positive effect on carbon footprint. Devan is now expanding its cooling range with a specific foam-solution. In the Home Textile industry new (bio)foam types are introduced the last 1,5 years to comply with the EU Green-Deal and circularity / recycling requirements. A good enough reason for Devan to develop a foam-specific cooling system. After all, research shows that our bedroom interiors get warmer every year, partly due to better insulation but also due to global warming. On top of that Devan thermoregulation solutions can save Energy and Water during application: low curing solutions are available next to cooling products to that can be applied, using less water.

Source : Chemical Market

INEOS Phenol Launches New Lower Carbon Bio Product Line to be Called INVIRIDIS for its Phenol Acetone and Alphamethylstyrene Business

- INVIRIDIS™ products have been fully certified by industry-leading ISCC Plus and RSB sustainability schemes.
- INVIRIDIS™ enables a lower carbon footprint compared to conventionally produced phenol, acetone and AMS.
- Phenol and acetone derivatives are essential to industrial applications such as automotive, construction, home improvements, electronics and healthcare
- Hans Casier, CEO INEOS Phenol: "Put simply, INVIRIDIS™ is a green feedstock that reduces the carbon footprint of the end product."

Rolle, 09 June 2022 - INEOS Phenol has today launched its first bio-attributed product line for phenol, acetone alphamethylstyrene (AMS). These products, made without using fossil fuels as feedstock, are to be sold under the INVIRIDIS™ brand. They represent innovation in the global phenol market and offer a more climate-friendly and sustainable alternative to existing phenol, acetone, or AMS.

Manufactured at INEOS Phenol sites in Gladbeck Germany, Antwerp Belgium, INVIRIDIS™ is made using bio-attributed cumene, which enables the replacement of fossil fuel resources.

Mass balance is an essential tool used to reduce the reliance on fossil fuel materials as feedstock across a wide range of industries. In practice, it allows the mixing of renewable and recycled materials with traditional feedstock to create a lower-carbon product. It is recognized

VIEWS AND STATEMENTS

"Beauty Forward is always about understanding and addressing needs in personal care. There is evident increasing consumer preference for natural, specifically plant-based ingredients, as well as a growing expectation for brands to understand and communicate on naturality with transparency. Our calculator equips them to do this, by providing the necessary personal care ingredient data in an intuitive, digital format. We're proud to support the creation of more sustainable personal care products."

- Hermann Bach, Global Head of Strategic Marketing and Innovation at Clariant.

"The new innovative Ocean Action label material is the latest step in our beyond fossils journey. It does not only help prevent the plastic waste from ending up in the oceans but also offers brand owners the possibility to meet their recycled content targets for packaging. The Ocean Action label material is an easy-to-use drop-in solution created especially for food and cosmetics end-uses as it has exactly the same performance as the current fossil-based labels."

- Eliisa Laurikainen, Business Development Manager from UPM Raflatac.

"With our strategic BLUEHERO initiative, we have vigorously committed to invest in, develop and deliver material solutions that can support the transition to electric power, drive down emissions and help address climate change, Our decision to initially focus on automotive reflects the urgency of making progress in that space and the strengths we already have with established materials and capabilities that can allow us to support the shift to electric vehicles and contribute to a low carbon future. With BLUEHERO, aligned with our purpose of delivering 'Chemistry that Matters™' and shaping a more sustainable future, we are bolstering our position to develop and deliver impactful solutions that the industry requires to collectively and heroically move us ever closer to a clean air economy."

- Abdulrahman Al-Fageeh, SABIC's executive vice president for Petrochemicals.

"Our new LV PAO unit comes at the right time to fulfil increasing needs from the lubricant industry for low viscosity low volatility engine oils, electrical transmission fluids and heat transfer fluids for data servers and electrical batteries. It also brings state of the art technology allowing a step change in efficiency of production."

- Peter Steylaerts, Business Director INEOS Oligomers

"The project is an important step on the way to a climate-neutral chemical industry in North Rhine-Westphalia. North Rhine-Westphalia will become a model location for innovative value chains and the project shows how important hydrogen is in this process. In the future, the project can supply not only the Köln Chempark but also logistics with green hydrogen. We need precisely such holistic projects to be successful in the transformation."

- Former Minister of Economics and Innovation Prof. Dr. Andreas Pinkwart

VIEWS AND STATEMENTS

"Umicore laid its foundations in battery materials almost 30 years ago and thanks to our own research and strong global open innovation footprint, we are at the forefront of various lithium-ion battery technologies that help decarbonize transport. Our partnership with Idemitsu enhances our innovation and technology leadership to support our customers in their clean mobility transformation through solid-state battery power."

- Mathias Miedreich, CEO of Umicore

"Hydrogen is necessary to tackle the challenge of the energy transition. Studies carried out with Groupe ADP over the last year have confirmed hydrogen can have a major contribution to decarbonize the airport sector. Airports have to be ready for hydrogen-powered aircrafts by 2035, and to foster the emergence of a hydrogen mobility ecosystem at large. This is why now is the time to work on adapting infrastructures. Air Liquide and Groupe ADP therefore project to create the first joint venture specialized in this field, building on our initial collaboration and pooling the complementary expertise of our two Groups. In line with our commitments, our ambition is to actively contribute to the emergence of a low-carbon society."

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

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"Our new dispersing additives from the TEGO® Dispers 65x series are extremely popular with our customers, When used in universal pastes, they are characterized by high pigment stabilization reliability and maximum flexibility: From use in waterborne wall paints to the formulation of high-solids door coatings, everything is possible. With TEGO® Dispers 658, we now have a product that minimizes the potential impact on aquatic organisms while maintaining the same performance which enables our customers to develop new product families that are already geared to future standards."

- Frank Kleinsteinberg, head of Application Technology Pigment Concentrates.

"I am proud that our Evonik site in Slovakia will play a critical role in supplying the world with more sustainable cleaning and personal care products. This is not just pivotal for a sustainable future, our investment here in Slovenská Ľupča is also beneficial for our region – attracting highly qualified experts that have helped establish Evonik Fermas as a biotech hub for the global market."

- Miroslav Havlik, general manager of Evonik Fermas.

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- Frank Kleinsteinberg, head of Application Technology Pigment Concentrates.

as a necessary step in arriving to a fully circular economy.

INEOS Phenol 's certification by the International Sustainability & Carbon Certification (ISCC Plus) and The Roundtable on Sustainable Biomaterials (RSB) allows us to use bio, bio-circular and circular feedstock into the supply chain.

INVIRIDIS™ Products are certified by ISCC Plus and RSB as delivering a 100% substitution of fossil feedstock (mass balance approach) in its production system, enabling a lower carbon footprint compared to conventionally produced products.

INEOS' choice of an ISCC Plus and RSB certified product also demonstrates its commitment to working with the emerging bio economy, adding to the extremely strong sustainability credentials of INVIRIDIS™.

Phenol and acetone derivatives are essential to and successfully used in a variety of industrial applications such as automotive, coating, adhesives, construction and insulation foams. They not only impact our production footprint but also in the use of these products in our daily lives.

Hans Casier, CEO at INEOS Phenol said, "Through our sustainability programme we have developed this new, bio-based product line. INVIRIDIS™ supports our customers with drop-in products that meet their rigorous quality and performance requirements. At the same time, they move the industry closer towards a lower-carbon economy for phenol, acetone, and AMS without compromising the unique product qualities."

INVIRIDIS™ is expected to have numerous value-added applications across a range of industry sectors, including highly specialised end-uses such as automotive, construction home improvement, electronics and healthcare.

INVIRIDIS™ will be on offer to the market within Q2 of this year.

Comments Peggy Gerits, Global Sustainability Manager at INEOS Phenol: "INVIRIDIS™ is an excellent example of INEOS' ongoing commitment to accelerate progress towards a lower carbon future. It is also a major step forward in INEOS' journey to sustainability and demonstrates our dedication to developing innovative solutions that address society's needs."

Source : Ineos

Solvay Sodi Unveils One of the Largest Sodium Bicarbonate Plants in the World

Solvay Sodi, a joint-venture between Solvay and Sisecam, unveiled the result of another large-scale investment project at the Devnya plant in Bulgaria. This growth project increases capacity for the production of sodium bicarbonate – a derivative of soda ash – at the plant by 200,000 tons.

The new facility responds to the growing global demand for sodium bicarbonate, an essential product notably used for removing pollutants from the flue gas in industrial applications and as an additive in animal feed, among many other applications. With this investment, Devnya, which is already Europe's largest soda ash plant, becomes the second largest sodium bicarbonate plant in Europe and one of the biggest in the world.

The inauguration of the new unit is part of an event organized to celebrate the 25th anniversary of the privatization of Solvay Sodi. It was attended by high-level delegations of Solvay Sodi shareholders. These included representatives from the Belgian science company Solvay and Turkish industrial group Sisecam; Frédéric Meurice, Ambassador of the Kingdom of Belgium to Bulgaria; and representatives from government and state administration, local authorities, trade unions and company partners, as well as journalists and employees.

"I am particularly proud of this modern and energy-efficient facility, in which we have integrated all our know-how and the best technologies available," said Spiros Nomikos, Solvay Sodi CEO. "This investment is consistent with all those made by Solvay Sodi over the past 25 years to make this site a global reference for the soda ash and sodium bicarbonate industry."

"With the support of the government and local communities, Solvay Sodi is determined to continue investing in Bulgaria in the future," said Philippe Kehren, Chairman of the Board of Directors of Solvay Sodi and President of Solvay's Soda Ash and Derivatives

Global Business Unit. "In order to reach our sustainability ambitions, we must continue the energy transition of the plant. We want to produce energy from local sustainable fuels instead of fossil fuels that used to be partly sourced in Russia, in order to cut greenhouse gas emissions and protect our competitiveness. This is a fight against climate change as well as for our economic survival. It will allow the Devnya plant to keep competing with non-european players operating with lesser regulations and thus lower production costs. We count on the continued support of all our stakeholders to make it happen."

Alongside this investment, Solvay Sodi is accelerating its energy transition to phase out coal by 2030 and to reach carbon neutrality by 2050. This started with the biomass cofiring project announced last February, which will be completed by October 2022, cutting 20% of CO_2 emissions related to energy production at the plant.

Source : Solvay

INEOS to Build World Scale Acetic Acid Plant and Associated Derivatives on US Gulf Coast

INEOS Acetyls has started a feasibility study into a World scale Acetic Acid plant and derivatives on the USA gulf coast and is reviewing several high-quality locations.

David Brooks, CEO INEOS Acetyls said "The gulf coast is a location well known to the INEOS group where we already have a significant presence. With its abundance of competitively priced feedstocks, the area offers a competitive advantage to support the continued global growth and customer demand for Acetyl products"

FID is expected before the end of 2023.

The project will be underpinned by INEOS proprietary technology and will take advantage of the latest carbon efficient processes.

As part of the strategic review INEOS will not proceed at present with the previously announced VAM plant in the UK given the volatile and uncompetitive energy costs outlook.

Source : Ineos

Evonik Launches Sustainable Liquid Polybutadienes with POLYVEST® eCO

With POLYVEST® eCO, Evonik's Coating & Adhesive Resins business line has launched a new range of sustainable liquid polybutadienes.

- ISCC certification proves reduction of up to 99.9% of fossil raw materials
- Thanks to exact same quality, no implementation effort for customers
- Application as raw material for adhesives and sealants or as a liquid rubber additive in tire production

Marl, Germany. With POLYVEST® eCO, Evonik's Coating & Adhesive Resins business line has launched a new range of sustainable liquid polybutadienes. The use of sustainably produced butadiene in the manufacture of this innovative product line has been shown to reduce the use of fossil raw materials by up to 99.9%.

With the POLYVEST® eCO range, Evonik is meeting the needs of an increasingly sustainable market: "The demand for efficient and environmentally friendly products is constantly increasing," explains Dr. Jürgen Herwig, who is respon-

sible for the POLYVEST® business together with his team. "With the development of POLYVEST® eCO, we are supporting the transition to a circular and bioeconomy."

In their final form, the POLYVEST® eCO products have identical physiochemical properties to the fossil-based products. "The biggest advantage for our customers is that it is not necessary to adapt their existing formulations," says Dr. Sara Liébana Viñas, Head of Technical Marketing for Reactive Sealants. "There is almost no easier way for our customers to reduce CO2 emissions."

The POLYVEST® production facility in Marl had already received ISCC PLUS certifications at the beginning of the year. This means that they are certified on the basis of the mass balance approach. This ensures stringent sustainability principles such as social responsibility and high environmental standards.

POLYVEST® eCO is used as a raw material for adhesives and sealants in the automotive, electronics, and construction industries. In addition, it can be used as a rubber additive in tire production.

Source : Evonik

Optimized Grade of BASF's Ultramid® Polyamide Enables More Sustainable Painting of Automotive Parts

- Reduced emission of VOCs without use of primer
- Improved shelf life with dimensional stability and durability
- Application for charging port flap of electric vehicles

Shanghai, China – June 24, 2022 – BASF has launched Ultramid® A3EM8 OP, a grade optimized for painting as it provides a class A surface finish and high bonding strength. With the new Ultramid grade, a primer is also not required to enhance bonding with paint.

"As the painting process is simplified with our new Ultramid® A3EM8 OP grade, production costs are reduced. The process also reduces the emission of VOCs from the primer," said Desmond Long, Vice President, Business Management Transportation, Performance Materials Asia Pacific.

As Ultramid A3EM8 OP is resistant to high heat up to 180°C, it keeps dimensional stability during the painting process and under various driving conditions. In addition, the material provides good chemical resistance required for automotive exterior parts. Thanks to these properties, it is now applied to the charging port flap of electric vehicles. The new grade's toughness and stiffness make it highly durable to the broad environmental conditions over its service period.

"We are exploring using this grade on other automotive exterior parts. As plastics offer cost and weight savings compared to metal, our customers want to replace more automotive parts with our high-performance plastics. The new Ultramid® A3EM8 OP grade will be the additional incentive for them to do so," added Mr. Long.

Source : BASF

Dow Seals Value Chain Partnership with Want-Want Group to Drive Zero-Solvent Emissions and Explore Opportunities to Adopt More Recyclable Flexible Packaging

Shanghai, China – July 11, 2022 – Dow (NYSE: DOW), a global materials science company, has signed a Memorandum of Understanding (MoU) with China's leading food and beverage group, Want-Want, to drive zero-solvent emissions and develop a circular economy for flexible packaging. This agreement aims to deepen value-chain

partner collaborations with customized adhesives solutions to address the needs of the industry for more sustainable packaging choices.

Solvent emissions are a source of pollution and contribute to greenhouse gas emissions. Enabled by Dow's water-based and solventless adhesives technologies, Want-Want is dedicated to using environmentally friendly laminating adhesives for all its flexible packaging while exploring opportunities to adopt recyclable packaging across more products under its portfolio.

"Investing in sustainability is an ongoing process; this significant step with Want-Want can help both parties optimize our sustainability roadmaps in the long run," said Bambang Candra, Asia Pacific commercial vice president, Dow Packaging & Specialty Plastics. "We will continue to drive innovative solutions and support more partners in achieving their sustainability goals."

"Adhesives is an important sector that can help reduce emissions and enable a circular economy. Not only are we advancing sustainable packaging on a larger scale, but we are also exploring benefits such as efficiency optimization and energy savings, supporting customers in reducing carbon footprint during production and transportation processes," said Jayne Wong, global adhesives business director, Dow Packaging & Specialty Plastics.

The signing of the MoU agreement aligns with Dow's sustainability goals for carbon neutrality by 2050, as well as supports Want-Want's sustainability goals to achieve carbon neutrality and adopt recyclable packaging for all products.

"In order to tackle climate change and create long-term value, we have an important part to play as one of China's largest food and beverage companies to establish an environmentally-friendly value chain – that inspires and encourages our consumers to make positive changes for the planet," said Yongmei Cao, general manager of operations, Want-Want Group. "Solving sustainability challenges is not a one-man nor a one-organization job, but also falls on the shoulders of all stakeholders. Not only are we thrilled to advance further in this journey with Dow, but we are also encouraged by the reality that we can offer our customers' favorite products that are enveloped by Dow's sustainable packaging innovation."

Source : Dow

Clariants New Dispersogen® Flex 100 Now the Only Choice for Superior and Sustainable Pigment Preparations

- Universal dispersing agent for organic and inorganic pigment preparations
- 100% active with ultimate flexibility from pigment concentrates to color paints
- Low VOC and label free with Clariant's prestigious EcoTain® label

MUTTENZ, June 30, 2022 - Clariant, a leading global provider of specialty chemicals, has launched its first universal polymeric dispersing agent for high quality pigment preparations that can incorporate organic and inorganic pigments and can be used for all types of water-based paint systems. In addition, waterborne pigment preparations with Dispersogen Flex 100 can also be compatible with solvent-borne base paint systems.

The new, universal solution gives pigment paste producers, and paint producers who also produce pigment pastes, an innovative, multifunctional and easy to use additive, "Dispersogen Flex 100 is a fully universal product which is low VOC, label free and carries Clariant's EcoTain label," said Fabio Caravieri, Head of Marketing Business Unit Industrial & Consumer Specialties.

"With Dispersogen Flex 100, there is no longer any need to choose. This advanced dispersing agent offers ultimate flexibility when making and using pigment concentrates to color paints," said Hermann Bach, Clariant's Head of Strategic Marketing & Innovation Industrial & Consumer Specialties.

The launch of the advanced Dispersogen Flex 100 is part of Clariant's drive to move its product portfolio towards increased sustainability, harnessing its innovation capabilities to develop safer, sustainable alternatives for the market. It is available in paints and coatings markets globally.

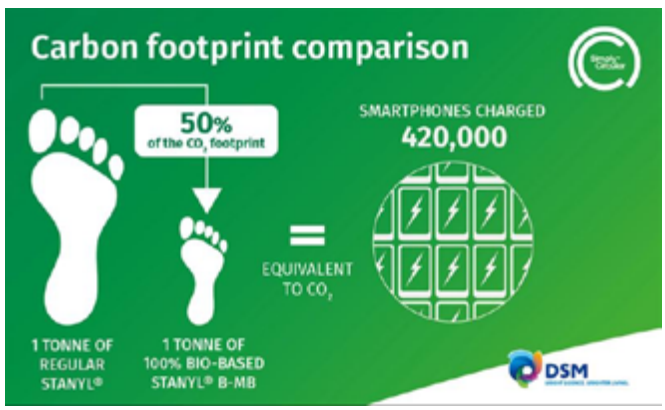
Source : Chemical Market

DSM Engineering Materials Launches 100 Percentage Bio-Based Stanyl® With Halved Carbon Footprint and Same High Performance to Empower Customer Sustainability

Geleen (NL), 29 June 2022 - DSM Engineering Materials announces the launch of a new, more sustainable version of its flagship product Stanyl®: Stanyl® B-MB (Bio-based Mass Balanced), with up to 100% bio-based content. Using the maximum possible levels of biomass-waste feedstock, it enables DSM Engineering Materials to halve the carbon footprint of this product line and, in turn, of the Stanyl® B-MB-based products of its customers. This industry-first launch of a 100% bio-based high-temperature polyamide underlines the business's ongoing commitment to helping customers fulfil their sustainability ambitions by making planet-positive choices and supporting the transition to a circular and bio-based economy.

Global production of bio-based products roughly doubled between 2015 and 2020, but to conserve the planet's natural resources and stay below the critical 1.5 degrees of global warming, the materials industry urgently needs to accelerate the shift to sustainable feedstocks. Seeing this need, DSM Engineering Materials has committed to providing bio- and/or recycled-based alternatives for its entire portfolio by 2030.

Stanyl® B-MB – now available with up to 100% bio-based content – is a fully ISCC+-certified mass-balancing solution, and delivers exactly the same characteristics, performance, and quality as conventional Stanyl®. In addition, production of Stanyl® B-MB now generates a carbon footprint up to 50% lower than the fossil-based original. In practice, this means a 3.3-ton CO2 reduction per ton produced – equivalent to charging 420,000 smartphones. Not only does this industry first further support the 'Sustainable sourcing' pillar of DSM Engineering Materials' SimplyCircular™ initiative, but it also raises the bar for biomass-balanced solutions in the industry. DSM Engineering Materials therefore continues to lead the way on driving carbon-footprint reductions and boosting customers' environmental success.



Roeland Polet, President DSM Engineering Materials: "With both consumers and regulators demanding more sustainable materials, the launch of 100% bio-based Stanyl® B-MB is an important step forward for our industry. We are fully committed to developing sustainably sourced products with a reduced environmental impact. With the same specifications and performance but with a 50% lower carbon footprint, this new portfolio will enable our customers to fulfil their sustainability goals and contribute to a planet-positive future – so what they design today, we can all value tomorrow."

Stanyl® B-MB continues Stanyl®'s 30-year legacy of meeting customers' most stringent performance requirements. The only aliphatic polyamide in its class, Stanyl® redefined polyamides when it was introduced, and is still the most widely used high-temperature polyamide today. Its excellent high-temperature mechanics, superior flow and processing, and distinguished wear and friction resistance make it ideal for high-temperature applications in automotive, electronics, electrical, and consumer goods industries, such as USB connectors, automotive and industrial actuator gears, powertrain timing chains, bearing cages, and food contact conveyors.

Source : Chemical Market

Discover Clariants Biodegradable Microplastic-Free Opacifier for Shampoo and Liquid Soaps

- New 95% RCI readily-biodegradable alternative to microplastic opacifiers
- Naturally-derived, microplastic-free, sulfate-free, not harmful to aquatic life
- Easy-to-use, drop-in solution with powerful opacifying effect even at low concentration: ideal alternative to acrylate-based opacifiers

MUTTENZ, June 29, 2022 - Clariant now offers a natural-derived, readily biodegradable opacifier to support Personal Care formulators in minimizing the impact of shampoos, conditioners, handwashes and other rinse-off shower and bath products on marine and river life. New Plantasens OP 95 is a microplastic-free option which delivers powerful opacifying performance even at low concentrations, for a creamy white appearance with luxurious, caring consumer appeal for shampoos and liquid soaps.

The push for more ocean-friendly Personal Care is intensifying beyond packaging, as consumers increasingly demand biodegradable cosmetic ingredients and regulatory initiatives to ban microplastics take shape. Under an EU/EEA legislative proposal, the most traditionally-used opacifiers, which are not biodegradable, are considered as microplastics and will therefore be banned in rinse-off formulations if restrictions take effect as expected in 2022.

"Because rinse-off formulation ingredients will usually end up in waterways and oceans, providing readily biodegradable solutions to this cosmetics sector is an important focus of our product development," comments Hermann Bach, Head of Strategic Marketing and Innovation, Clariant BU Industrial & Consumer Specialties. "This 95% natural origin, microplastic-free opacifier extends options for developing more environmentally-compatible Personal Care. By answering formulators' needs on multiple fronts, it enables an easy switch from water-dispersible acrylate copolymers without compromising on visual appeal."

Readily-biodegradable Plantasens OP 95 offers formulators an easy-to-use, sulfate-free drop-in solution for opacifying a wide range of hair and body care applications and for supporting eco-conscious consumer behavior. It can aid product manufacturers in addressing trends and extending new claims to their rinse-off formulations. Plus, it is possible to reach ideal viscosity without adding rheological agents, which means less formulation complexity.

Source : Chemical Market

Unique Value Chain Collaboration Design4circularity Achieves First Circular Cosmetics Packaging Concept

- Giving packaging waste a second life in Personal Care applications
- Designed to be recycled again and again: colorless bottle with 100% Post-Consumer recyclate content (PCR), equipped with a printed deinkable full-body shrink sleeve
- Full sorability in current recycling infrastructures possible
- Innovation unveiled ahead of K 2022: step-wise introduction of individual solutions like additives, PCR, and suitable inks, available directly to the market

MUTTENZ, JUNE 21, 2022 - Moving circular plastic packaging forward. In a first and unique collaboration for the Personal Care industry, Clariant, Siegwerk, Borealis, and Beiersdorf are combining expertise to tackle the challenge of creating recyclable consumer packaging, based on 100% retrieved

Price as on June 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(Activated)	50	50	
Calcium Carbonate (Precipitated)	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	
PolyethyleneGlycol(PEG 200)	230	93	
PolyethyleneGlycol(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	

plastic packaging waste, for cosmetics applications. The pioneering initiative, named "Design4Circularity", is providing innovations and insights for the different design aspects to encourage others to also follow design for circularity principles.

The cross-industry collaboration is targeting the achievement of truly circular packaging by incorporating full life cycle thinking in each development step, to create a new standard for the industry. Circular packaging supports reduced plastic waste, less use of new/virgin plastic material, and reduced climate impact, which are critical challenges facing our planet.

Richard Haldimann, Chief Technology and Sustainability Officer, Clariant, says: "This collaboration was possible because all participants are dedicated to circular economy, with company-wide programs and holistic understanding of the systems involved. Achieving circularity needs a complete shift in designing product packaging and packaging raw materials, considering sortability, recycling and packaging end-of-life."

Stefan Haep, Technology Head Brand Owner Collaboration at Siegwerk, adds: "Our initiative is a frontrunner in uniquely assessing circularity in every design parameter, from additives to bottle material to inks, mapping industry competencies, potential gaps, and feasibility proof points to open up viable, ultimately circular solutions."

The mission was to design a packaging solution that creates a cleaner input waste stream and finds its way back into the loop in high-value applications. It should also allow for the high-quality visuals and distinctive shapes consumers associate with cosmetics packaging and brands.

To deliver on all these factors, the innovation centers on a colorless polyolefin bottle with 100% PCR content, full body sleeved in a printed deinkable shrink sleeve. All materials are technically fully recyclable with the potential to be recovered and used for the same high-value application.

Stefan Rüster, Packaging expert from Beiersdorf, continues: "We follow an ambitious Sustainability Agenda including the vision of fully circular resources. The Design4Circularity packaging solution is ground-breaking for future cosmetics applications. Through the hard work and innovation power of all collaboration partners involved, we have managed to combine the high design requirements of a cosmetic packaging with full circularity. We are very proud of this success and hope that this motivates our industry peers to follow."

And Peter Voortmans, Global Commercial Director Consumer Product, Borealis, concludes: "Transforming to a circular economy is a team effort. Only together with like-minded partners can we shape an 'ever mindful' tomorrow. It starts with packaging design in combination with the right sorting and recycling infrastructure, and through collaboration we reinvent essentials for sustainable living."

Designed to be recycled again and again

Critical design parameters included polymer and additive composition, material selection of sleeve and bottle, sortability and deinking of sleeve material, recyclability, and PCR quality.

To give packaging waste a second life the packaging material needs to retain its highest value through multiple lifecycles. Here, Borealis brought its expertise in advanced, transformational mechanical recycling technology by offering high quality PCR based on proprietary Borcycle™ M technology. Additionally, Clariant brought expertise in design for recycling additive solutions to ensure targeted additivation to protect PCR quality and protect against polymer chain breakdown at each recycling step. This delivered a suitable, high-value PCR material to repeatedly hit the high-end criteria of Personal Care-related consumer packaging. The circular solution additionally focuses on a colorless bottle option to increase PCR quality after recycling.

To achieve differentiation of the packaging despite using an uncolored bottle, the collaboration decided on a full body shrink sleeve as the ideal way to allow for the unique design of individual brands. Leading ink manufacturer Siegwerk was able to provide ink systems, which in collaboration with Beiersdorf and a sleeve manufacturer allowed printing of the sleeve to realize a full body, colored and appealing cosmetic sleeve. Additionally, the chosen new ink composition was designed to allow deinking of the sleeve within a recycling process, increasing the circularity of the packaging. The bottle/shrink sleeve combination is intended for removal at a materials recovery facility.

First sorting trials in existing recycling infrastructure proved the sortability of the full body sleeved HDPE bottle, achieving a high recovery of the bottle's material. Additionally, the project team conducted trials with full body sleeved, transparent PET bottles and achieved similar results.

Further advancements in sorting technology are needed to achieve the ultimate goal of circular economy to give colorless bottles a second life back in colorless applications retaining their highest value. Technologies such as digital watermarking or artificial intelligence could help such sustainability goals to be reached.

Source : Chemical Market

Green Science Alliance has Developed Water Base 100% Nature Biomass Nail Polish, Nail Color which does not come off even after Washing

KAWANISHI-CITY, Japan, July 6, 2022 /PRNewswire/ -- Environmental problems caused by population explosion such as climate change, natural resource depletion, water shortage and plastic pollution are getting severe in the world. Regarding plastic pollution issue, micro-plastics, nano-plastics are already in our human body. Therefore, plastic recycling, reduction of plastic usage itself, and biodegradable plastic applications are intensively carrying out, especially when biodegradable plastic or chemical products are made from nature biomass resources, that can contribute to reducing CO2 emission too.

This time, Dr. Ryohei Mori at Green Science Alliance has developed water based nature biomass nail polish, nail color which does not come off even after washing. In general, water based nail polish is weak and can come off easily when washed. But this product has strong adhesion ability to nails. On top of that, when this product dries up after coating on the nail, the whole component will become 100 % nature biomass composition, no petroleum.

The main component is water and nature resin. Toxic components (toluene, formaldehyde, dibutyl phthalate, synthesized camphor, triphenyl phosphate, parabens, xylene, styrene acid, oxybenzone 1,2,3, ethyl acetate, butyl acetate, butyl hydroperoxide etc.) which is usually used in normal petroleum derived organic solvent based nail polish, is not contained. Odor is not strong and nail-coated feeling is lighter than organic solvent based normal nail polish.

One cannot remove easily with water and general remover (usually acetone) which is also harmful to nails. However, you can remove with ethanol (alcohol) instead. Developed products have the tendency to become two layers separated status in nail polish container although you can use them by shaking before use. They are working to suppress these two layers separation issue, but do not affect much to its painting and decoration property on nails.

Green Science Alliance has already developed nature biomass biodegradable nail tip, fake nails and one can combine these 2 items together, to enjoy ultimately environmentally friendly nail fashion products.

Green Science Alliance has blue and pearl green in colors at the moment and they will increase more color variations soon

Source : PRNewswire

Shin-Etsu Chemical has Developed a High-Strength Inorganic Thin-Film Coating Liquid with Excellent Antibacterial and Antiviral Properties Suitable for Surface Functionalization of Building Materials.

Shin-Etsu Chemical Co., Ltd. (Head Office: Tokyo; President: Yasuhiko Saitoh) has developed "Tersus®RN," an inorganic thin-film coating liquid which possesses antibacterial/antivirus functions, envisioning its application for building materials for housing and buildings.

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

PRODUCT LIST

A

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C

D

E

Edible Refine Salt
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Epichlorohydrine
KRISHNA SOLVECHEM LTD. Pg 9
Ethylene Diamine (EDA)
KRISHNA SOLVECHEM LTD. Pg 9
Ethylene Dichloride
KRISHNA SOLVECHEM LTD. Pg 9

F

Formic Acid
KRISHNA SOLVECHEM LTD. Pg 9

G

Gibberlic Acid
Chemilife Enterprises Pg 10
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H

H Acid
AAKAR DYES AND CHEMICALS Pg 14
Heptanes
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Hexane
KRISHNA SOLVECHEM LTD. Pg 9
Basic Brown Y Liquid Pg 14
HIREN ENTERPRISES Pg 14
Basic Brown Y Liquid Pg 14
Hydrazine Hydrate 80%
KRISHNA SOLVECHEM LTD. Pg 9
Hydrogen Peroxide 50%
KRISHNA SOLVECHEM LTD. Pg 9
Hydroxylamine Sulphate
KRISHNA SOLVECHEM LTD. Pg 9

I

Indole Acetic Acid
Chemilife Enterprises Pg 10
Indole Butyric Acid
Chemilife Enterprises Pg 10
Industrial Salt
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Isobutanol
KRISHNA SOLVECHEM LTD. Pg 9
Isophorone
KRISHNA SOLVECHEM LTD. Pg 9
Isopropanol
KRISHNA SOLVECHEM LTD. Pg 9
Isopropyl Alcohol
KRISHNA SOLVECHEM LTD. Pg 9

J

J Acid
AAKAR DYES AND CHEMICALS Pg 14

M

Mamas Acid
Mavani Chemicals Pvt. Ltd. Pg 15
MCB
KRISHNA SOLVECHEM LTD. Pg 9
MDC
KRISHNA SOLVECHEM LTD. Pg 9
Methanol
KRISHNA SOLVECHEM LTD. Pg 9
Methylene Di Chloride
KRISHNA SOLVECHEM LTD. Pg 9
Methyl Ethyl Ketone (MEK)
KRISHNA SOLVECHEM LTD. Pg 9
Methyl Iodide
KRISHNA SOLVECHEM LTD. Pg 9
Methyl Iso Butyl Ketone (MIBK)
KRISHNA SOLVECHEM LTD. Pg 9
Methyl Metha Acrylate
KRISHNA SOLVECHEM LTD. Pg 9
Mono Chlorobenzene
KRISHNA SOLVECHEM LTD. Pg 9
Mono Ethyl Amine 70%
KRISHNA SOLVECHEM LTD. Pg 9
Mono Isopropyl Amine 70%
KRISHNA SOLVECHEM LTD. Pg 9
Mono Methyl Amine
KRISHNA SOLVECHEM LTD. Pg 9
Mono Sodium Phosphate
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O

Orange ARL
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Orange Base
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Ortho Nitro Toluene
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P

Papas Acid
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Paraformaldehyde
KRISHNA SOLVECHEM LTD. Pg 9
Para Nitro Toluene
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PCI5
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Peracetic Acid
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Phosgenated and Cyanuric Based
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Phosphate
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Phosphoric Acid 85%
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Piperazine 68%
KRISHNA SOLVECHEM LTD. Pg 9
Piperazine Anhydrous
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Polyamines
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Potassium Meta Bi Sulphite
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Propylene Glycol
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Pyridine
KRISHNA SOLVECHEM LTD. Pg 9

Q

Quinizarine (1-4 Dihydroxy Anthraquinone
Mavani Chemicals Pvt. Ltd. Pg 15

R

Raw Salt/Crystal/Coarse Salt
SKC INDUSTRIES LLP Pg 16
Red - 4G
Mavani Chemicals Pvt. Ltd. Pg 15
Red - HI
Mavani Chemicals Pvt. Ltd. Pg 15

Why Cant I Distill Liquor at Home Video

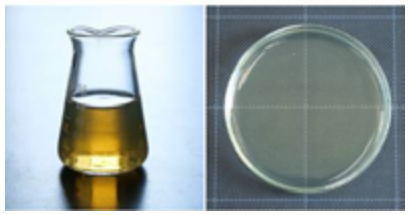
WASHINGTON, June 21, 2022 — Distilling liquor might be a relatively simple process — heating a fermented liquid and keeping only the boiled alcohol — but it is dangerous and illegal without a license. To extract only alcohol from a mixture of many ingredients, scientists must explore boiling points and the intermolecular forces that shape them: https://youtu.be/a1I-ruS1bKN8.

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.

The American Chemical Society (ACS) is a nonprofit organization chartered by the U.S. Congress. ACS' mission is to advance the broader chemistry enterprise and its practitioners for the benefit of Earth and its people. The Society is a global leader in providing access to chemistry-related information and research through its multiple research solutions, peer-reviewed journals, scientific conferences, eBooks and weekly news periodical Chemical & Engineering News. ACS journals are among the 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

The Tersus® Series, which uses Shin-Etsu Chemical's own unique silicate as an ingredient, is a coating liquid that forms a transparent thin film of natural finish that does not interfere with the building materials' design. The newly developed Tersus®RN represents a new line-up in the series, and it has 2 kinds of nano particles as active ingredients, titania and silver, which can realize antivirus functions.



In the background leading to the development of this new product, there has been a rising of hygiene consciousness towards building materials in the midst of the coronavirus pandemic. At an external testing laboratory test*1, it was verified that on the surfaces where these products were applied, there was a high antivirus function exhibiting a strong inhibitory effect against the novel corona virus (SARS-COV-2), of 99.94% (R=3.2).

In addition, with regard to the general antibacterial/antivirus performance, Shin-Etsu has also obtained the certification of The Society of International sustaining growth for Antimicrobial Articles (SIAA).

This product is a water-based coating liquid and there is no worry about offensive odors or adverse effects on the human body at the time of application operation, which in the case with an organic-solvent-base becomes an issue.

This product will meet your expectations by realizing a highly hygienic environment, not only for use in environments where large numbers of unspecified people gather, such as offices, hospitals, public facilities, nursing facilities, automobiles and railway cars, but also for use as a coating liquid for various residential building materials.

Source : Shine-Etsu Chemical

Domo Chemicals and Hynamics Commit to Joint Project for the Production of Polyamides from Low-Carbon Hydrogen

Ghent, July 6, 2022 - DOMO Chemicals, a leading producer of engineered polyamide materials, and Hynamics, a 100% subsidiary of EDF Group specializing in the production of low-carbon hydrogen, have entered into a partnership project with the objective of achieving zero-carbon for 100% of the hydrogen used at the Belle-Étoile industrial site, in Saint-Fons (south of Lyon, France), in the heart of the French Vallée de la Chimie ("Chemistry Valley").

For the first time in France, the "HyDom" project will enable the installation of an 85-megawatt (MW) hydrogen production plant using the water electrolysis process at the Belle-Étoile site, with a production capacity of 11,000 metric tons of low-carbon hydrogen per year. The plant will be powered by the French low-carbon electric power mix. By 2027, it will supply 100% of the annual production of hexamethylene diamine, a key component used in the production of plastics.

The project will eventually prevent the emission of 84 kilotons of carbon dioxide (CO2) each year. Hexamethylene diamine, and ultimately, durable and low-carbon polyamides, will be used in various applications in major industry sectors, such as automotive, electronics, and heating & cooling.

This project is a major step towards the decarbonization of industrial sites that use grey hydrogen (produced from fossil fuels). The location in the Vallée de la Chimie within the vicinity of major transport routes opens up opportunities for the creation of a more complete hydrogen ecosystem.

The first phase of the project will consist of building up and ascertaining technical concepts and integrating the low-carbon hydrogen production plant within the larger production process of hexamethylene diamine.

Considering the high-power scale of the future electrolytic hydrogen production facility, the HyDom project is being developed in close collaboration with RTE (an organization in charge of managing the French power grid), to solve connection issues. As a priority project for the industry's zero-carbon strategy and for the "France 2030" investment plan, HyDom is supported by the French government and has been presented to the European Commission for public funding.

According to Christelle

EVENTS AND CONFERENCES

CPHI WORLDWIDE GERMANY

Date: Nov 1-3, 2022
City: Messe Frankfurt
Country: Germany
Website: https://www.cphi.com/europe/en/home.html

Description: The biggest international pharma industry event is back!

In 2022, CPhI Worldwide will become CPHI Frankfurt: a 3-day event that will take place in person and online. This hybrid model will fuse the best elements of our traditional show with interactive online features to help you get the most out of your CPHI experience!

In addition to our dates in Frankfurt, this format will see our event take place online over an extended period of time, allowing you the flexibility to connect, network, learn and do business – when and how it suits you.

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, 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 cosmectic 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.

Rouillé, CEO of Hynamics: "In line with the goals set out in the France 2030 investment plan for a resilient and decarbonized industrial sector, Hynamics is proud to support leading hydrogen-consuming industrialists in their decarbonization efforts. The scope of the project launched in partnership with DOMO Chemicals reflects Hynamics' expertise in developing industrial electrolytic hydrogen production projects with a strong environmental impact. In replacing the unit that currently produces hydrogen from natural gas, our project represents an important step towards industrial sovereignty and reaching our climate objectives".

According to Yves Bonte, CEO of DOMO Chemicals: "The reduction of CO2 emissions remains a major challenge for the industry, and DOMO's low carbon footprint solutions are designed to help customers achieve their own CO2 emission reduction targets. This joint investment in a low-carbon hydrogen unit to replace the existing natural gas-based production unit will provide the first hydrogen infrastructure in the Lyon area. This strategic partnership will help us - and hopefully an entire ecosystem in the Vallée de la Chimie - achieve DOMO's ambitious goals for 2030, focused on decarbonization, the use of renewable energy and delivering customer solutions."

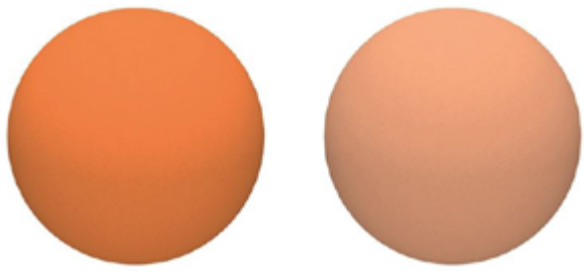
Source : Chemical Market

Sustainably Brilliant - Discover the Expanded Colanyl® 500 Range for Vibrant Orange Colors

- Introducing new high performance orange aqueous pigment preparation for durable coating solutions
- Stable PO 62 waterborne preparation with a 24-month shelf life
- Low VOC, binder- and label-free

Vienna/Austria, Frankfurt am Main/ Germany, July 5, 2022 - The new Heubach Group, a global provider of comprehensive color solutions, is expanding its well-known Colanyl 500 pigment preparations range with Colanyl Orange H5GD 500 to better illustrate brilliant orange color shades. The new addition to the portfolio makes customers' lives easier when facing challenges with the stability of Pigment Orange 62 in waterborne applications.

"Pigment Orange 62 pigments are difficult to stabilize in waterborne preparations or coatings which is why our R&D has focused on developing this advanced Colanyl Orange H5GD 500. It is stable in all its properties with no tendency towards sedimentation, its rheology profile and its color properties, required to deliver outstanding accuracy on all scales. This means complexity in planning, production, handling and quality on the customer side can be reduced. Additionally, the shelf life of the product is 24 months, it is easy to handle and has broad com-



patibility in various paint systems," said Heubach's Franziska Hammerl, Segment Head Decorative & Wood Coatings, Global Technical Marketing Coatings.

Until now, the Colanyl 500 range did not include an orange shade. The new Colanyl Orange H5GD 500 is a pure and yellow orange, closing the gap in the color space in the waterborne preparation portfolio, allowing customers to match bright orange shades with high performance. It can be used to create pure/yellow orange shades and is applicable for architectural and aqueous industrial coatings, flooring, and is also applicable for in-plant and Point-of-Sale tinting. Colanyl Orange H5GD 500 has superior light fastness and has the advantage that it is not DCB based. Further, all Colanyl 500 preparations are compatible in all proportions with each other.

As a pioneer in the development of sustainable color technologies, the new Heubach's Colanyl 500 pigment dispersions are low-VOC containing, and label (no GHS labels) and binder free. They are manufactured without alkyl phenol ethoxylated (APEO) additives and engineered to satisfy the variety of demands of the decorative coatings industry.

Source : Chemical Market

Bostik Finalizes the Integration of Ashland's Performance Adhesives to Fully Capitalize on Synergies

COLOMBES, France, July 7, 2022 / PRNewswire/ -- Four months after completing the acquisition of Ashland's Performance Adhesive activities, Bostik, the adhesive solutions segment of Arkema, has finalized the Integration of these activities inside its organization. This milestone signs a major step in Bostik's ability to deliver expected synergies, and growth.

As it Integrates Ashland's Performance Adhesive activities, and in order to strengthen its customer centricity and ability to develop innovative, more sustainable, high value solutions in a broad variety of markets, Bostik has reorganized its activities and now operates with four market-centered businesses:

- **Durable Goods** brings together Bostik's legacy durable goods activities and Ashland's Structural adhesives business, strengthening its ability to develop tailor-made solutions for higher-value markets in Assembly, Mobility, Engineering Adhesives and Building Components;

- **Advanced Packaging & Converting** integrates Ashland's Pressure Sensitive Adhesives and Lamination & Coatings activities, strengthening its market leadership and geographic footprint to address the needs of global customers in the rolled goods converting Industry;

- **Hygiene, Paper & Cardboard** ombines the Bostik Non-Woven and Rigid Packaging businesses, to serve global consumer goods customers in the hygiene and end-of-line packaging Industries.

- **Construction & Consumer** remains unchanged, and serves professional and individual construction customers.

According to Vincent LEGROS, Bostik's CEO, "The acquisition of Ashland's Performance Adhesives offers a unique opportunity to pass a threshold in our strategy to provide our clients with tailor-made, high-value, innovative adhesive solutions. Our new organization is going to help us deliver on this strategy, and actively contribute to Arkema's ambition to become a pure specialty materials player. All the teams are really excited about the many opportunities this is going to generate."

With one of the world's most complete offers on pressure sensitive adhesives as well as market leading positions In structural adhesives and flexible lamination, this new organisation is going to unlock significant opportunities to develop innovative and more sustainable solutions with customers and with the Arkema Group's other businesses, while helping globalize activities on some key markets.

Source : PRNewswire

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				3 months (Cover Pg)
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