

# DYES & CHEMICAL MARKET

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A MONTHLY MAGAZINE DEVOTED TO

DYES CHEMICALS PHARMACEUTICALS API TEXTILE AUXILIARIES PAINTS SOLVENTS COSMETICS

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Wider Range of Colors Rolled off The  
Worlds Assembly Lines In 2020 -Pg28

DKSH Extends Distribution Partnership  
With Ddchem To The USA -Pg63



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# HAVER & BOECKER





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**INDIA  
 CHEM  
 2021**

17- 19 March 2021, New Delhi

**A Phygital (Physical Plus Digital)  
 Conference & Expo**



## Exhibitor Profile: -

### Chemicals

- Fine & Specialty Chemicals
- Agro Chemicals & Fertilizers
- Basic Chemicals, Dyes & Pigments
- Chemicals from Herbal & Other Natural Resources
- Paints & Varnishes
- Soaps & Detergents
- Clean Technology Tie-up
- Consultancy for Waste Management, Feedstock Linkages, Processing, Marketing Management, Safety & Environment Protection
- Industrial R & D

### Petrochemicals

- Polymers
- Olefins
- Synthetic Fibers
- Elastomers
- Aromatics

- Surfactants

- Plastics

### Process Plant Machinery & Equipment

- Process Technology
- Plants
- Machinery & Equipment
- Engineering Project Management & Construction Services
- Environmental / Pollution Management
- Filtration & Separation Systems
- Process Plant Design Services
- Pumps and Valves, Safety Systems
- Tubes & Fittings, Test Kits & Procedures
- Environmental & Water Management Systems
- Laboratory Apparatus
- Research & Development
- Spectroscopy
- Testing & Measurement Technology
- Instrumentation & Process Control

## Key Highlights

- Global CEOs Round Table
- India – EU Chemicals & Petrochemicals Forum
- India – Japan Chemicals & Petrochemicals Forum
- India – US Chemicals & Petrochemicals Forum
- Conclave on Indian Petrochemical Industry
- Conclave on Indian Agrochemical Industry
- Conclave on Process, Plant Machinery, Pumps & Valves
- International Exhibition
- Reverse Buyer Seller Meet
- Exclusive B2B/ B2G/ G2G Networking Meeting
- Awards

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Concurrent Event

**INDIA  
 PROMACH 2021**

**Website - [www.indiachem.in](http://www.indiachem.in)**





informEx iCSE FDF bio LIVE InnoPack P-mec

~~Sep 9-11, 2020~~ | Philadelphia, PA, USA

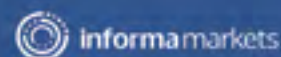
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- Basic Brown R Liquid
- Basic Crysodine Y Liquid
- Basic Auramine Liquid
- Acid Orange Liquid
- Direct Yellow 11 Liquid
- Direct Red 81 Liquid
- Direct Orange 118 Liquid

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- Basic Crysodine R (Powder)
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**N-Propyl Bromide**  
**Sodium Bromide**  
**N-Hexyl Chloride**  
**Sodium Chloride**  
**N-Hexyl Chloride**  
**Octyl Chloride**  
**Pivaloyl Chloride**  
**Valeryl Chloride**  
**Methoxy Acetyl Chloride**  
**IsoButyl Chloride**  
**Thionyl Chloride**  
**Sulphuryl Chloride**  
**Bromo Benzene**

**Domestic Products :** Acetonitrile, Diisopropylamine, Diethylamine, Dimethylamine Hcl, Diethylamine, Dimethylaminopropylamine (DMAPA), MIPA 70%, Trethylamine, Mnoethylamine 70%, Diethylhydroxylamine (DEHA), Di-n-butylamine, Thionyl Chloride, Sulphuryl Chloride, Diisopropylethylamine, Tri Ethylamne Hcl

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



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- **BLUE TL** (Against Huntsman BLUE TLE)
- **ORANGE ARL** (Against Huntsman ORANGE ARLE)
- **VIOLET 4B** (Against Huntsman violet 4BLE)
- **YELLOW GL** (Against Huntsman YELLOW GLE)
- **RED - 4G** (Against Huntsman RED - 4GE)
- **RED - HI** (Against Huntsman Scarlet BNLE)
- **GREEN - BL** (Against Huntsman GREEN - BLE)
- **PHOSGENATED AND CYANURIC BASED - Powder & Liquid Direct Dyes for COTTON & BLEND COTTON. PAPER (BLEACHING CRAFT), LEATHER**
- **SPECIALIZED - AZO (BIS AZO & TRIS AZO) & DEHYDRO THIO BASED DIRECT DYES**
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**Acid Yellow 219 & Acid Orange 156**

- **Dyes for PH and STAIN INDICATOR**

(ALIZARINE RED BM ALIZARINE RED S. TITAN YELLOW, (DIRECT YELLOW - 09.), NI-TRIZINE YELLOW & ACID YELLOW 36)

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**NIMISH M. MAVANI**  
CEO

### **Office :**

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E-mail : [nimishmavani@hotmail.com](mailto:nimishmavani@hotmail.com)



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



Contact

**Bharat Mehta**

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

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## Decoding Breast Milk To Make Better Baby Formula Video

WASHINGTON, Jan. 19, 2020 — What makes breast milk so good for babies? In this episode of Reactions, our host, Sam, chats with chemist Steven Townsend, Ph.D., who's trying to figure out which sugar molecules in breast milk

make it so unique and difficult to mimic: [https://youtu.be/o4\\_npLDyyUw](https://youtu.be/o4_npLDyyUw).

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### Products

- Brassinolids** ❑
- Silver Peroxide** ❑
- Peracetic Acid** ❑
- Sodium Percarbonate** ❑
- Indole Acetic Acid** ❑
- Indole Butyric Acid** ❑
- Gibberlic Acid & 6BA** ❑

### Product Category:

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

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- Process Chemicals required for dairy, food, sugar, textile, wineries, breweries & automobile segments.
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- Microbial cultures & enzymes required for fermentation & biological solid/liquid waste treatment processes



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

**CHEMICAL  
MARKET**

#### CphI - Informa Group

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

#### MECD (Coating Show)

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

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#### CHEMS

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

#### Red Carpet Events

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

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

#### Other Exhibitions

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

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Glacial Acetic Acid	150 Tons	
Caustic Lye	200 Tons	
Copper Sulphate	10 Tons	
Copper Nitrate	10 Tons	
Titanium Dioxide Ana-tase Grade	3 Tons	
BF3 [Borone Trifluoride]	2 Tons	
Glycerin	5 Tons	-

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Web : [www.mangalamorganics.com](http://www.mangalamorganics.com)

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

Tel.: +91-22-49204089

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

Details :

**Anil Kumar Gupta**

M/s Zenith Dyestuffs & Chemical Industries

Ludhiana Road, Malerkotla - 148023

Email : [zenithdyes@yahoo.co.in](mailto:zenithdyes@yahoo.co.in) / [info@idcda.in](mailto:info@idcda.in)

Tel: 01675-263328

Mobile: +91-94172-40234/92165-40234

Product Name	Qty	Grade
Sodium Bi-sulphate	Bulk	Chemical
Polysol	Bulk	

Details :

**Mr. Tejas Thakkar**

M/s Nitish Enterprises,

203, Dariasthan Bldg, 33, Dariasthan Street,

Mumbai - 400003,

Tel: 98200-92170

Product Name	Qty	Grade
Non Ferrous Metals		Manufacturer

Details :

**Santosh Thakre**

S S Fine Chem Laboratories

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

Mobile : 9867774142

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

Details :

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

Phone: +91-944-702-0652

Location: Calicut, Kerela

Product Name	Qty	Grade
Boric acid		
Potassium permangnate		
Potassium iodide		
Iodine		
Light liquid paraffin		
Heavy liquid paraffin		
Petroleum jelly		
Turpentine oil		
Castor oil		
Glycerine		
Zinc oxide		
Magnesium sulphate		
Copper sulphate		

Details :

**Tajinder Goyal**

Softex Surgical

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

Ph: +91-980-555-6667

Product Name	Qty	Grade
AMANTADINE HCL	1400 KGS	
NITRIC ACID	1400 KGS	
N-BUTANOL	2500 KGS	

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

Details : Required Rate with MSDS and Other Certificate

**Swapnil Salunke**

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Maharashtra, INDIA

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

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

Switchboard.: +91-989-283-1911

Product Name	Qty	Grade
Iso Propyl Alcohol		

Details :

**Rajkumar Mandal**

**Mytepol India**

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

Product Name	Qty	Grade
Borax	Bulk	

Details :

**Sandip Agarwal**

**Supreme Borochem Private Ltd**

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

Product Name	Qty	Grade
Fast Red RI Base		Industrial

Details :

**Vibhu Vaidya**

**Krupalu Dye Stuff Industries**

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

Mobile : 9408554819

Product Name	Qty	Grade
Acrylic Acid		

Details :

**Janardhan**

**Katyayani Polymers**

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

Mobile: +91-995-990-0375

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

Details : Required in June and August.

**Dr. Deepak Birewar**

**Inventys Research Company**

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

Mobile : +91-961-966-6333

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

Details : Prefer direct manufacturer or exporters only.

**Jagdish Thakral**

**Shri Hariram Export Pvt. Ltd.**

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

Phone : 0712-273-4041

Product Name	Qty	Grade
Pharma Intermediates	-	

Details :

**Arnish**

**Chemox Chemopharma Industries**

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

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

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

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

**Mr Kunal Kamat (Procurement Agent)**

**Kunal Chemicals Trading**

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

Mobile : +91-932-001-3358

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

Details :

**Parthiv**

**Shiv Chem Industries**

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

Tel.: 079-2282-3447

Product Name	Qty	Grade
Sofosbuvir and Daclatasvir		

**Nirav Patel**

**Indamed Pharmaceuticals Pvt. Ltd.**

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

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





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

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

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

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

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

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

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

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

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

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

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



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

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

**Jitendra Bhalgat**

Ahmednagar, Maharashtra, India

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

Mobile : 9422220871

Product Name	Qty	Grade
Toulene	5000 Kgs	Industrial

Details : Kindly arrange to send us quotations

**Santosh Taksale**

Pune, MH

Mobile: 9028843799

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

Product Name	Qty	Grade
Sodium Hypochlorite	500 Kgs	Chemical

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

**Rajshree Varshney**

Mumbai, Mh

Mobile: + 917520945076

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

Product Name	Qty	Grade
Tera Hydrofurin (thf)	-	

Details : We are Trader and Deal in api and solvents

**Rajiv Kapoor**

Global Enterprises (Traders)

Mobile: 8866506582

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

Product Name	Qty	Grade
Modified Starch	1 Tonnes	Technical

Details : for our won purpose

**Purushotham M**

Salem, Tamil Nadu, India

Mobile: +919443326055

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

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

Details : for our won purpose

**Chetan Lakhpati**

Thane, Maharashtra, India

Mobile: 9920337763

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

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

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

**Kishor at Moglix**

Noida

Mobile: 96503-64721

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

Product Name	Qty	Grade
IPA		

Details : Bulk requirement

**Amit Dave**

Amit International (Distributor)

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

Mobile : 9821323563

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

Napthol AS-LC ( HS Code -  
32041929)

Napthol ASIRG ( HS Code -  
29242990)

Dimethylsuccinyllo Succinate (DMSS) - HS Code  
29181990

Napthol AS - HS Code  
29242990

Napthol AS-PH - HS Code -  
32041921

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

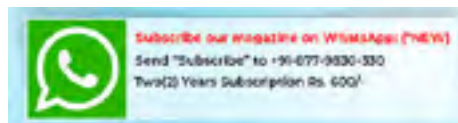
Details :

**Pravin Iyer**

AT Pigments (Manufacturer)

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

Mobile : 9898507767



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[info@chemicalmarket.net](mailto:info@chemicalmarket.net) or visit  
<https://www.chemicalmarket.net/search>



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

*Did you know? In Whatsapp version,  
click on the URL link to visit website or  
click on the email link to send an email*

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

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

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

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

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

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

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

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

Details

**M/s H. Rameshkumar**

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

**Tel: 022-2344-4365**

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

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

Details :

**Ashok Patil**

**DD Patil Chemicals, Amalner Dist Jalgoan**

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

**Mobile: +91-735-022-6099**

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

Details :

**Dinesh Gupta**

**HARESH ENTERPRISES (Wholeseller)**

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

**Mobile: +91-9824200441**

Product Name	Qty	Grade
Ammonium Sulphate caprolactum grade		

Details :

**Manish**

**SM Dharani Chem Pvt Ltd( Manufacturer)**

**Email: [manish@smdcpl.in](mailto:manish@smdcpl.in)**

**Mobile : 9879408765**

Product Name	Qty	Grade
Sodium Bi Sulphate	-	-

Details :

**M/s Anant Corporation / Nitish Enterprise**

**203, Dariyasthan Chambers, 2nd Floor, 33, Dariyasthan Street, Masjid (West), Mumbai - 400 003**

**Tel: 022-6331-2140 Fax: 022-2347-1894**

**Mobile: 098200-92170, 098198-61068**

**Email: [nitish2846@gmail.com](mailto:nitish2846@gmail.com)**

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

All Types of Sealing Machines

Details :

**M/s Samir Brothers**

**Ashok Niwas, 2nd Floor, Daulat Nagar, Road No. 3, Borivali (East), Mumbai - 400 066.**

**Tel: 022-2808-1542 / 022-2805-9475 /**

**022-2855-8035 (R)**

**Contact For: Plastic Bottles, Carboys,**

**M.S. Capsules, Bungs & All Types of**

**Sealing Machines**

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

Details :

**Jitendrabhai**

**Mobile : +91-9904063662**



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

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

**Pravin Iyer**

AT Pigments (Manufacturer)

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

Mobile : 9898507767

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

Details :

**R P Agrawal**

Texochem Industries (Manufacturer)

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

Mobile : 919820217042

Product Name	Qty	Grade
Glycerine	12 Tons	Manufacturer

Details :

**Tajinder Goyal**

Softex Surgial

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

Ph: +91-980-555-6667

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

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

Product Name	Qty	Grade
Polyacrylamide		
Hydrochloric Acid		
Industrial Safety Mask		

Details : Bulk requirement

**Amit Dave**

Amit International (Distributor)

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

Mobile : 9821323563

Product Name	Qty	Grade
Hydrazine Hydrate 80%		

Details : we have stock of our own imports

**Anamika soni**

Punjab Chemicals & Crop Protection Ltd  
(Manufacturer)

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

Mobile : 9867724805

Product Name	Qty	Grade
EDTA Tetra Sodium Liquid	-	

Details :

**Parthiv**

Shiv Chem Industries (Manufacturer)

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

Tel.: 079-2282-3447

Product Name	Qty	Grade
Diffubenzurone	250 Kg 500 Kg	

Details :

**CHANDRESH HAPANI**

ANIMED (Distributor)

Email : [animed6@yahoo.co.in](mailto:animed6@yahoo.co.in)

Mobile : 9830175616



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Product Name	Qty	Grade
Sulphur Powder		
Sulphur Roll		
Details : we are manufacturers of Sulphur powder and Sulphur roll <b>Adesh</b> <b>J.K.Industries, Deoband (Trader)</b> Email : <a href="mailto:jkind.dbd@gmail.com">jkind.dbd@gmail.com</a> Mobile : 9412113914		

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

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

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

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

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

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

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





# Contents

<b>Purchase Enquiries</b>	...16
<b>Sales Enquiries</b>	...20
<b>Notes</b>	
2021 chemical industry outlook.....	25
<b>Research Reports Abstracts</b>	
Global Pigments Market Witnesses an Urgent Shift Towards Eco-Friendly Paints, Says Fairfield Market Research.....	26
Lux Research Names Top 5 Technologies Disrupting the Chemicals and Materials Industry.....	27
Thermostat Recycling Corp.'s Mercury-Containing Thermostat Collection Down 35% .....	27
<b>News Round Up</b>	
Decoding Breast Milk To Make Better Baby Formula Video.....	12
Wider Range of Colors Rolled off The Worlds Assembly Lines In 2020.....	28
Formulating New Beauty and the formulations that capture them .....	39
CHINAPLAS 2021: BASF Empowers the Future - Innovations Create Value for Customers, Society and the Environment.....	42
SIBUR Holding PJSC Selected LyondellBasell Technology for its Amur Gas Chemical Complex in Far East Russia.....	43
Uflex Chemicals Business Secures India Patent for New Process to Derive Epoxy Ester Resin .....	44
Lanxess Aims to Acquire Disinfection and Hygiene Solutions Provider Theseo .....	45
Avient to Expand Color Concentrate Capabilities in Vietnam .....	46
Arkema and Cool Roof Join Forces to Create More Durable Reflective Roofs.....	47
LOTTE Chemical develops PP materials for melt-blown filters for masks.....	50

Evonik wins Henkel Sustainability Award for second year in a row .....	51
Toray Leverages Proprietary Nanoalloy® Technology to Create Flexible and Toughened Polymer Offering Diverse Applications..	52
Artificial Intelligence to Make Chemical Industry Faster and Smarter .....	53
Visit : <a href="https://chemicalmarket.net/search">https://chemicalmarket.net/search</a> for more product listing.....	54
LANXESS Pigments Transform Sculpture into a Colorful Star .....	56
Solvay Launches Eugenol Synth for Fragrance Applications.....	57
A Vibrant Start To The New Year Clariant Expands Pigments Laboratory For The African Market.....	60
Archroma And Cleankore Join Forces To Promote Sustainable Cost-Effective Indigo Dyeing Process .....	61
Eastman Starts Up New DMAE Unit in China .....	62
This event has been postponed. Please visit website for more details.....	67
<b>VIEWS AND STATEMENTS</b>	...40
<b>EVENTS AND CONFERENCES</b>	...58
<b>Free Service Subscribers - Sub. Today</b>	...64
<b>Market Prices</b>	
Chemical Market Price.....	48
Product List .....	54
<b>News Snippets</b>	
Drug & Pharma News .....	29
Chemical Technology .....	31
New Products .....	33
Mergers & Acquisitions .....	35
International News .....	37

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## 2021 chemical industry outlook

### Five trends in the chemical market

#### **Focus shifting toward new value streams and applications that can drive industry recovery and future growth**

Owing to end-market diversity and exposure to more resilient sectors, the impact of the economic recession on the state of the chemical industry will likely be moderate in 2021 when compared with other industries, such as automotive. Therefore, in addition to cost optimization and capital discipline, industry players will likely respond to shifting demand by prioritizing growing end markets, such as health care and electronics.

#### **Policy proposals related to regulation, trade, and sustainability could have material impact**

The new administration has pledged to review industry tariffs, as his campaign views them to be a less effective trade tool compared to other measures, such as alliances and coalitions. The new administration also advocates for ending the ongoing trade dispute with China. This could boost US chemical market exports and improve industry profitability through a potential revival in prices.

#### **Feedstock volatility unlikely to change the global export competitiveness of US chemical companies**

Fifty-eight percent of chemical executives in a recent Deloitte postelection poll indicated they believe the feedstock cost advantage for export competitiveness will continue through at least the

next three years for the US chemical goods industry. However, the advantage could be temporarily disrupted by an unexpected and sustained surge in natural gas prices due to factors such as supply-demand imbalance, or a significant and persistent decline in oil prices.

#### **Emerging opportunities amid growing concerns around plastics waste**

Chemical market consumers may increasingly value sustainability and prioritize products based on circularity and carbon footprint, driving chemical companies to accelerate their decarbonization technologies, reexamine their existing assets, and begin to diversify away from hydrocarbons where possible. In 2021, many US chemical companies are expected to add mechanically recycled and renewable feedstock-based polymers to their product offerings and invest in advanced recycling to introduce potentially game-changing green technologies on a commercial scale.

#### **Chemical companies to increasingly leverage remote and digital sales channels**

Unlike the recent downturns that were primarily cyclical in nature, chemical companies are now experiencing significant changes in how they operate and the way they serve customers. Companies are adjusting how to work remotely, how they sell products, and how they interact with customers. Chemical industry customers are expecting a simplified ordering process, especially in a contactless environment. Buyers expect better digital experiences and e-com-

merce solutions, such as live chat, that limit in-person interaction.

#### **Preparing for new opportunities in the chemical market**

Chemical companies can use the COVID-19-driven economic crisis as an opportunity to build lasting business strength by making informed and deliberate strategic choices about which end markets they focus on. Furthermore, as companies focus on divestments of non-core or underperforming assets to raise cash during the economic downturn, industry players that are well-prepared and have robust balance sheets can look at making smart acquisitions that create greater long-term shareholder value.

Companies can grow earnings in different operating environments if they build a product portfolio that can withstand changes in macroeconomic trends. The end of life for materials can often be the start of something new, and so chemical companies should collaborate with their stakeholders to find ways to create new value. In the coming year, players in the chemical goods industry should keep their eye on these larger trends shaping consumer preferences and the end-market environment in order to focus on new growth opportunities and extract more value from current resources and assets.

The article is an abstract from Deloitte 2021 chemical industry outlook. For more details visit:

<https://www2.deloitte.com/us/en/pages/energy-and-resources/articles/chemical-industry-outlook.html>



# Global Pigments Market Witnesses an Urgent Shift Towards Eco-Friendly Paints, Says Fairfield Market Research

LONDON, Jan. 14, 2021 /PRNewswire/ -- Urbanization is the major enabler for soaring demand of pigments in the global market. Rising construction activities have led to increased demand for building materials, bolstering the demand for pigments that lend the desired aesthetic. Fairfield Market Research predicts, the global pigments market will be worth US\$40 Bn by the end of 2025 from US\$30.1 Bn in 2017. The report indicates that the market will register a CAGR of 4.6% between 2021 and 2025.

Paints and coatings industry is the largest consumer of pigments as it accounted for 57.5% of total market share in 2017. Pigments are primarily used for safeguarding paints against extreme weather conditions and corrosions. This makes it an ideal option for the paint and coatings industry to add visual and functional appeal to buildings. In recent years, there has been a shift in preference as consumers are demanding eco-friendly products. This trend is expected to force manufacturers into innovating environment-friendly chemistries that have a low or zero VOCs.

Rise in global demand for pigments is due to growing infrastructural developments, urbanization and higher uptake of building materials. The market is expected to confront a shift towards eco-friendly and economical products with rigid guidelines of government bodies pushing consumers to be more environment conscious.

Strict Regulations Presents Opportunity to Develop Eco-friendly Pigments

The market is however expected to face certain restraints such as rise in energy costs and raw material prices. Government bodies and regulatory authorities have laid strict regulations against release of toxic pollutants, which is significantly hampering market growth. Manufacturers are thus looking at investing in research and development of eco-friendly pigments for their consumers that match the quality of conventional oil-based paints or solvent-based paints. Sustainability will be the key focus area of pigment companies to remain relevant in the market, predicts Fairfield Market Research.

### Rise in Urbanization to Boost Demand for Paint and Coating Industry

The paint and coating industry segment is expected to dominate the global market as urbanization continues to see a wave of new home buyers. Furthermore, consumers spending on renovations, interiors and overhauling, the demand for paints and coatings is suspected to soar during the forecast period.

The modern paints industry, determined towards responsible manufacturing, use of renewable raw materials and application of environment-friendly technologies, will prove pivotal to the market in the near future. The demand for pigments will also be stirred by packaging industry that is always looking at appealing to consumer sensitivities. Furthermore, analysts also indicate that the use of pigments in development of printing inks that are used for printing on substrates such as paper, plastic and leather amongst others will gener-

ate sizeable revenue.

### Asia Pacific to Dominate the Global Market Owing to Large Consumer Base

Asia Pacific is expected to lead the global market as this region has the largest consumer base. Asia Pacific held 42.3% of the total pigment market share in 2017 and is projected to grow by a CAGR of 5.9% from 2021 to 2025. This region is also witnessing high production output with supportive economies such as China and India that rely on manufacturing activities for growth of GDPs. Major producers are also moving to Asia Pacific to set up production units as the region offers affordable labor.

### Key Players are Investing in R&D Activities to Expand Product Portfolio

Manufacturers are focusing on expanding their product portfolio owing to shift of consumer preference. They are actively investing in research and development activities to introduce eco-friendly products in the market that align with the demand of their consumers. The market has seen addition of new entrants at the regional level, which has intensified the competition. Key players are also engaging in technological collaborations to boost product portfolio to satisfy modern demands.

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

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# Lux Research Names Top 5 Technologies Disrupting the Chemicals and Materials Industry

**B**OSTON, Jan 14, 2021 /PRNews-wire/ -- Trends like sustainability and digitalization are going to dramatically change the chemicals and materials industry over the next 20 years. Investing in technology innovations will be critical for companies to keep up. Lux Research, a leading provider of tech-enabled research and advisory services, has released its annual report, "Foresight 2021: Top Emerging Technologies to Watch."

The new research identifies and ranks 12 key technologies that will reshape the world. The technologies are chosen based on innovation interest scores from the Lux Tech Signal, a composite measure assembled from a variety of innovation data sources, along with input from Lux's experts. In addition to highlighting the 12 key overall technologies, for the first time ever, this year's report ranks the top five technologies for the chemicals and materials industry.

"The impacts of climate change and digital transformation will be substantial – as the chemicals industry is forced to adapt to the circular economy, waste

plastic will become the most valuable feedstock. This will create a more decentralized industry that relies increasingly on economies of multiples. At the same time, digital sales platforms will commoditize customization, eroding the difference between specialty and commodity businesses," explains Anthony Schiavo, Senior Analyst at Lux Research.

The top five technologies chemicals and materials leaders should look to in 2021 are:

**Plastic Waste Recycling:** As concerns about plastic waste rise, billions of dollars are at risk. Advanced recycling tech is necessary to tackle this issue and creates opportunities for higher-value products.

**Materials Informatics:** Applying machine learning to materials development can not only improve R&D cost and efficiency but also help enable new business models and greater agility.

**Digital Sales Platforms:** E-commerce and sales automation are coming to chemicals, along with services around

customization and product use.

**3D Printing:** 3D printing provides material firms unique growth opportunities – but firms need to be prepared to move down the value chain to capture their share of profits.

**Synthetic Biology:** Synbio can boost sustainability claims but also enable more flexible, distributed production of chemicals and, in the right cases, can enable new markets and lower costs.

"Each year, when we are preparing our annual report, our clients ask us, 'Which of these are most important for my industry?'" Schiavo continues. "The most critical tech innovations are not the same for every sector. Some technologies that did not make the top of our overall list may be transformational for specific industries. That's why we've expanded this year's report to cover these additional technologies."

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

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## Thermostat Recycling Corp.'s Mercury-Containing Thermostat Collection Down 35%

**N**EW YORK, Jan. 15, 2021 /PRNews-wire/ -- Thermostat Recycling Corp. (TRC) collected 35% less pounds of mercury from thermostats in 2020, when compared with its efforts in 2019. It collected 892 pounds of mercury in 2020, compared with 1,370 pounds in 2019. There were 85,351 mercury thermostat unit collected and recycled in 2020 compared with 134,022 in 2019, a decline of 36%. "The coronavirus pandemic greatly affected our collection efforts last year," said Danielle Myers, op-

erations & compliance manager, TRC. "While we have worked vigorously at recycling mercury-containing thermostats, the coronavirus pandemic accentuated this dramatic decrease." The top three states in the United States for recycling the thermostats are California, Illinois and Pennsylvania. The collection numbers reached a peak in 2014 with 203,346 units. "TRC, like most companies and organizations, felt the overwhelming impact of this unprecedented pandemic," Myers said. "Yet when the

opportunity presented itself, our partners continued to maintain a commitment to ensuring that they safely recycled mercury-containing thermostats. Despite the additional concerns they faced, they never flinched during this coronavirus pandemic."

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

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# Wider Range of Colors Rolled off The Worlds Assembly Lines In 2020

- Expanding color spaces make the overall spectrum broader than 2019
- Diverse shades of blue, red, yellow and violet make gains in some regions
- Despite the shift in colors, white, black, silver, and gray follow a familiar pattern, coating the majority of the vehicles produced

The BASF Color Report 2020 for Automotive OEM Coatings shows the automotive color palette shifting in unconventional ways, unveiling a wider range of chromatic colors rolling off the world's assembly lines.

Diverse shades like blue and yellow are making gains in some regions, while red and violet are slowly cutting the lead held by the achromatic colors in other parts of the world. The expanding color spaces made the overall spectrum broader than 2019 and added a flash of brilliance.

Despite the shift in colors, the achromatic colors – white, black, silver, and gray – followed a familiar pattern, coating the majority of the vehicles produced. As it has been for several years, white is still the most popular car color around the world. It has a classic, timeless beauty, and a connection to both the environment and high technology.

The data cited throughout this report shows lower total vehicle production than past years. It includes times when automakers had to shut down due to COVID-19. The global pandemic has deeply affected the mobility economy and the world.

### EMEA: Greater diversity of chromatic

### colors and shades

Europe, Middle East and Africa (EMEA) follows the global movement of chromatic colors. In 2020, about 11% of new vehicles in EMEA were coated in blue, making it the most popular chromatic color. Violet is a newcomer to the market, increasing diversity even more. Other chromatic colors are also gaining popularity, especially on smaller SUVs as their market segment grows.

Part of the variety comes from the diversity of shades. OEM automakers used more than 160 distinct shades of blue in 2020 on vehicles in EMEA. Gray was second with 140 shades. Both color spaces were more diverse than white, which only had 70 distinct shades.

In the achromatic spectrum, white is still on top at 28% of the market, followed by gray and black.

“Color variety changes with size. For example, where violet has a unique home in mid-size SUVs, it does not appear in great numbers in smaller or larger SUVs,” said Mark Gutjahr, head of Automotive Color Design, EMEA. “The opposite is true with yellow, which shows up in both the very small and the very large, but not the middle. These are specific and unique color positions that appear and disappear throughout the segments.”

### North America: More blue, just as anticipated

North American car buyers have fewer choices for chromatic colors, but that doesn't mean they're choosing fewer chromatic cars, trucks, or SUVs. Blue gained more popularity as an automo-

tive color in North America, edging out red, while beige and brown have dropped off the list. That leaves green as the only other chromatic color in significant numbers in the region.

Shades of blue are seen as more elegant, and buyers who may have chosen beige or brown in the past seem to be moving to blues or grays. BASF designers could see this coming. As early as 2016, BASF designers described blue as “a major color direction for the automotive industry that will gain market share in upcoming years.” Automotive designers often look 3-4 model years ahead when developing colors, and the market has played out exactly as predicted.

“There's a lot to get excited about with the bright colors we're seeing,” said Paul Czornij, head of design, The Americas. “Just as we predicted three or four years ago, blue is having a moment in the sun, and we're using some beautiful effects and pigments that advance the possibilities of hue and texture in this important design space.”

### Asia Pacific: Black and gray rising, while brighter colors showing up

Asia Pacific is home to the largest volume of automotive production in the world, and a microcosm of global color popularity. While every region is different, Asia Pacific's preferences mirror global data, and its bright colors mirror the awakening that chromatic colors are experiencing elsewhere.

White is still the most popular color in the region, coating about 48% of the vehicles produced. Black and gray continue to improve, following a three-year

Continued on page 39



### RINAC PRODUCES MOBILE ICU FACILITIES FOR COVID-19 RELIEF

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



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

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

"We need the ICU facilities to be fully airtight and insulated to ensure the safety of our healthcare workers and minimize transmission of the virus," said Soji Abraham, Senior Vice President Strategy at Rinac India. "Thanks to BASF's

Elastopir, the wall panels made with this excellent insulating material can help meet these requirements. With its extra high-temperature stability, the patients can recuperate comfortably with consistent indoor temperatures at 22-25 degrees celsius. Most importantly, Elastopir's superior fire performance helps enhance the protection of these facilities against fires."

By reducing air loss and solar gain, Elastopir lowers energy consumption and helps increase the facilities' energy efficiency. For the same insulation performance,

panels produced with Elastopir are 50%-100% thinner than other traditional materials such as concrete. With thinner walls and envelopes, the mobile ICU facilities have more usable space and higher flexibility during construction.

"BASF is also sponsoring\* a unit of the ICU facility as part of its social engagement," said Andy Postlethwaite, Senior Vice President of Performance Materials, Asia Pacific, BASF. "We aim to 'go beyond' by developing ever more innovative, sustainable solutions that help our customers, such as Rinac produce the highest quality and most energy-efficient insulation panels for their medical units."

Apart from medical facilities, Elastopir can be widely used in cold stores and freezers to store perishable goods with its outstanding thermal insulation properties. The stable and consistent temperature and humidity levels can help keep food fresher and prolong the shelf-life. When used in livestock buildings,

Elastopir helps farmers achieve lower heating bills, increase productivity, and improve animal health and working environments for the employees.

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

Source : Chemical Market

### ABBOTT TO LAUNCH THE NEUROSPHERE™ MYPATH™ DIGITAL HEALTH APP DESIGNED TO TRACK AND REPORT PAIN RELIEF IN CHRONIC PAIN PATIENTS WITH PHYSICIANS PRIOR TO DEVICE IMPLANT

ABBOTT PARK, Ill., Jan. 14, 2021 / APNewswire/ -- Abbott (NYSE: ABT) today announced the upcoming launch of NeuroSphere™ myPath™, a digital health app designed to track and report on patient perceived pain relief and general well-being associated with spinal cord stimulation (SCS) or dorsal root ganglion (DRG) therapy. During the device trial period required before the permanent implant, the app allows patients to record their outcomes on pain and well-being while trialing their neurostimulation therapy.

Abbott's NeuroSphere myPath is a digital innovation that will provide relief to the millions of Americans currently living with chronic pain that are eligible for SCS or DRG therapy. This new digital health app will allow patients to use their Apple mobile device to connect with Abbott support, access educational



resources and track the progress of their trial pain relief journey.

"The COVID-19 pandemic put a spotlight on the need for digital and remote health tools," said Keith Boettiger, vice president, Neuromodulation, Abbott. "The launch of the NeuroSphere myPath is one more example of how Abbott has been leading the way in providing remote ways to connect doctors and patients. Patients will be able to see information on their phone that would typically only be accessible in a doctor's office – helping patients to share their journey with their doctors."

Prior to committing to full implantation of a neuromodulation device, patients undergo a trial period to test device capabilities and capacity for pain relief. During the trial, temporary leads are placed and connected to an external generator, allowing patients to experience firsthand the impact of neuromodulation on their chronic pain and related symptoms.

**"The current digital health-care landscape has revolutionized our ability to provide direct care for patients whenever they need," said Shachi Patel, M.D., interventional pain management physician and owner of Delmarva Pain and Spine Center in Newark, Del. "By providing patients with a more seamless, easier way to record their progress during the trial period, Abbott's NeuroSphere myPath app will enable an enhanced communication experience while provid-**

## **ing patients with further insight on their overall outcomes and response to neuromodulation."**

NeuroSphere myPath is the latest innovation that fits within the company's broader NeuroSphere Digital Care connected health management platform. NeuroSphere myPath will be compatible with Abbott's Proclaim™ XR SCS System for patients living with chronic pain in the trunk and limbs, and Proclaim™ DRG Neurostimulation System for patients with chronic pain in the lower limbs caused by complex regional pain syndrome or causalgia.

"As clinicians, we are constantly in search of more intuitive tools and easy-to-use applications that enable us to provide better care for our patients living with chronic pain – particularly when trialing a new treatment," said Pankaj Mehta, M.D., medical director, chief medical officer and director of research at Pain Specialists in Austin, Texas. "Assessing a patient's response to a new stimulation therapy is essential to determining a therapeutic course-of-action. With Abbott's NeuroSphere myPath app, I will have the ability to assess the information patients have been recording and provide a comprehensive assessment on how they are responding to the therapy."

The NeuroSphere myPath will be available on the Apple App Store in the coming weeks and is expected to be available on Android devices in Q2 2021.

Source : abbott

## **FOR ADULTS WITH HEART FAILURE WITH REDUCED EJECTION FRACTION**

RIDGEFIELD, Conn. and INDIANAPOLIS, Jan. 11, 2021 /PRNewswire/ -- The U.S. Food and Drug Administration (FDA) has accepted a supplemental New Drug Application (sNDA) for Jardiance® (empagliflozin) which is being investigated as a potential new treatment to reduce the risk of cardiovascular death and hospitalization for heart failure and to slow kidney function decline in adults with chronic heart failure with reduced ejection fraction, including those with and without type 2 diabetes, Boehringer Ingelheim and Eli Lilly and Company (NYSE: LLY) announced.

A high unmet need remains in the treatment of heart failure, as approximately half of all those diagnosed are expected to die within five years. Heart failure is also the leading cause of hospitalization in the U.S., with an estimated one million people being hospitalized due to the condition each year. The risk of death in people with heart failure rises with each hospital admission. Heart failure with reduced ejection fraction occurs when the heart muscle does not contract effectively, and less blood is pumped out to the body compared to a normally functioning heart.

"New treatments for heart failure are needed to help reduce the risk of death in those affected by this chronic, debilitating illness," said Mohamed Eid, M.D., M.P.H., M.H.A., vice president, Clinical Development & Medical Affairs, Cardio-Metabolism & Respiratory Medicine, Boehringer Ingelheim Pharmaceuticals, Inc. "We look forward to working with the FDA to potentially expand the number of adults who may benefit from Jardiance to include those affected by heart failure with reduced ejection fraction."

**US FDA ACCEPTS  
SUPPLEMENTAL NEW  
DRUG APPLICATION  
FOR JARDIANCE®  
(EMPAGLIFLOZIN)**





The sNDA is based on results from the EMPEROR-Reduced phase III trial, in which Jardiance was associated with a significant 25% relative risk reduction in the primary composite endpoint of time to cardiovascular death or hospitalization due to heart failure. Additionally, the rate of decline in eGFR, a measure of kidney function decline, was slower with Jardiance than with placebo, when both were given on top of standard of care treatment. Results were published in The New England Journal of Medicine in August 2020.

"With this filing acceptance, we move closer to starting yet another important chapter with Jardiance," said Jeff Em-mick, M.D., Ph.D., vice president, Product Development, Lilly. "In addition, results are anticipated this year from the EMPEROR-Preserved trial in adults with heart failure with preserved ejection fraction, an area that currently has no approved treatment options."

Initially approved in 2014, Jardiance is a once-daily tablet used along with diet and exercise to lower blood sugar in adults with type 2 diabetes and to reduce the risk of cardiovascular death in

adults with type 2 diabetes and known cardiovascular disease. Jardiance is not for people with type 1 diabetes or for people with diabetic ketoacidosis (increased ketones in the blood or urine). Jardiance is contraindicated in people with a history of serious hypersensitivity reaction to empagliflozin or any of the excipients of Jardiance, and in people with severe renal impairment, end-stage renal disease, or dialysis. Please see Important Safety Information below.

**The FDA previously granted Fast Track designation to Jardiance for the reduction of the risk of cardiovascular death and hospitalization for heart failure in people with heart failure. This designation is for the EMPEROR program, which consists of the EMPEROR-Reduced and EMPEROR-Preserved trials. EMPEROR-Preserved**

**is exploring the effect of Jardiance on cardiovascular death or hospitalization for heart failure in adults with heart failure with preserved ejection fraction. EMPEROR-Preserved results are expected in 2021. Jardiance is not indicated for the treatment of heart failure with reduced or preserved ejection fraction, to reduce hospitalization for heart failure, or to slow kidney function decline.**

In March 2020, the FDA has also granted Fast Track designation to Jardiance for the treatment of chronic kidney disease. This designation covers the ongoing EMPA-KIDNEY trial, the results of which are expected in 2022. Jardiance is not indicated for the treatment of chronic kidney disease.

Source : Lilly

## CHEMICAL TECHNOLOGY

### TORAY DEVELOPS FPSO AND FSO REPAIR AND REINFORCEMENT TECHNIQUE WITH MODEC

Tokyo, Japan, December 24, 2020 – Toray Industries, Inc., announced today that it has developed a carbon fiber reinforced plastic-based repair technique with MODEC, Inc. The technology is for floating production, storage and offloading (FPSO) and floating storage and offloading (FSO) systems that MO-DEC designs and builds and for which

it provides operation and maintenance services. Toray has jointly developed a repair technology using Carbon Fiber Reinforced Plastics and has obtained approval from the American Bureau of Shipping (ABS) as a standard repair method for thickened parts due to corrosion.

Since maintenance of FPSO / FSO is carried out while continuing oil and gas production at sea and only repairs with steel materials are permitted. It has been desperately desired to require a new construction method that makes easy to bring in materials and equipment which does not involve fire work.

Toray has a patent for a vacuum assist-

ed resin transfer molding (VaRTM) repair technique that can be applied to a narrow work site, and Toray has been considering applying the technology to repair of FPSO / FSO in the field of floating marine oil and gas and production equipment including FPSO. And now Toray has been working with MO-DEC, the world's leading company and the only specialized company in Japan.

**The two companies jointly developed a repair technique that uses a dedicated carbon fiber fabric with high strength and high elastic modulus which makes it**



**easier to carry in materials and equipment compared to the conventional repair method using steel materials, and requires a small number of people and a short construction period. In addition, since it does not involve fire work, it can be expected that the impact of repair work on oil and gas production will be minimized.**

In the medium-term business program "Project AP-G 2022", Toray will focus on a further improvement on Carbon Fiber Reinforced Plastics business and strengthening its design and proposal capabilities for material systems, and will operate in growth markets. Toray will keep leveraging the power of materials to change the world by strengthening collaboration among Group companies while catering swiftly to market needs.

Source : Toray

## **HARD ON GERMS IN HARD SELTZER**

**Velcorin technology from LANXESS stabilizes trendy drink efficiently and reliably**

Cologne, January 20, 2021 – Hard seltzer is already firmly established as a popular, trendy drink in the USA. The alcoholic sparkling water is now sweeping through Europe and the rest of the world. Target-group-oriented marketing concepts and online campaigns have seen this new drink segment set annual growth records in North America since 2018. Manufacturers of these products can rely on the proven Velcorin technology from LANXESS to provide efficient,

cost-effective microbiological stability for this low-calorie alternative to wine and beer. Cold sterilization makes it impossible for yeast, mold or bacteria to impair the shelf life and taste of these hip drinks.

To produce hard seltzer, water is carbonized and minimally sweetened, and a little alcohol with – mostly natural – flavoring is mixed in.

Velcorin – it comes, works, and disappears

Germes are always all around us – and the production and canning or bottling of drinks is no exception. Cold sterilization with Velcorin (dimethyl dicarbonate, DMDC) is ideal for preventing contamination, particularly in the sensitive canning or bottling area. It is highly efficient even with small quantities of the active ingredient. This applies as much to hard seltzer as to other microbiolog-



ically sensitive drink categories such as beer or mixed wine-based products. Although the alcohol content of hard seltzer is relatively low at four to six percent, this is not enough to prevent the growth of product-spoiling microorganisms.

Velcorin is dosed into the drink just before canning or bottling. The active ingredient penetrates the cell wall to get inside yeast, fungus or bacteria cells and deactivates vital enzymes, thus killing the cells.

Excess DMDC reacts with the water in the drink within a few hours. All that is given off in this hydrolysis process is small amounts of methanol and carbon

dioxide, which are also present as natural constituents in many fruit and vegetable juices as well as wine. There are no traces of Velcorin itself in the end product, so it has absolutely no negative effect on the drink's sensory properties. It often provides an opportunity to improve the drink's tasting profile as other means of stabilization can be reduced.

The use of Velcorin is authorized for a large variety of different drinks in Europe, the USA, and many other countries. Major bodies such as the EU's Scientific Committee on Food, the Food and Drug Administration (FDA) in the USA, and the Joint Expert Committee on Food Additives (JECFA) of the FAO and the WHO have documented the harmlessness to health of DMDC.

Universally applicable Velcorin dosing technology

**Even very small quantities of Velcorin are fast-acting and effective. Precise Velcorin dosing requires a reliable technology. To this end, in addition to the active ingredient, LANXESS provides a suitable, sophisticated dosing technology and a service package to ensure customer's success. This package covers technical questions as well as support with the application technology, for instance in microbiological analysis or production plant audits. LANXESS Velcorin dosing units can be integrated into new as well as into existing canning or bottling systems**



easily and cost-effectively, and optionally connected to their automation technology. Filling capacities of 600 to approx. 72,000 liters per hour are supported here. Any kind of beverage container can be used, too.

Velcorin is compatible with all packaging types: glass or PET bottles, cans, pouches (aluminum bags) or cartons. This ensures maximum flexibility in every respect, which is crucial, particularly in product de-

velopment and launches.

Velcorin Technology is already in use successfully at international and local leaders in the beverage industry. It offers Hard Seltzer, next to already well established beverages, to unlock its full potential.

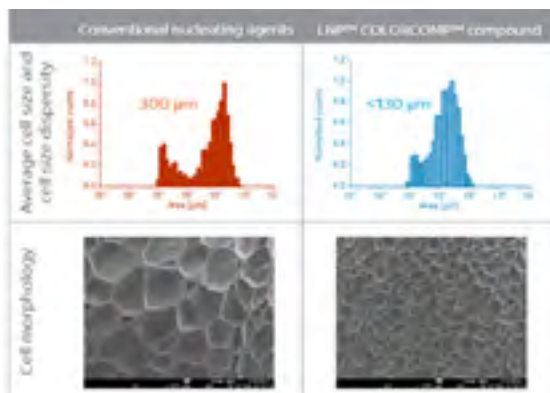
Source : Chemical Market

## NEW PRODUCTS

### SABIC'S NEW, BREAKTHROUGH LNP™ COLORCOMP™ COMPOUND USES NANOTECHNOLOGY TO ENABLE DIFFERENTIATED FOAMS

SABIC introduced LNP™ COLORCOMP™ WQ117945 compound, a breakthrough material based on advanced nanotechnology that facilitates efficient production of polyethylene terephthalate (PET) foams for core materials in sandwich structures. This new compound improves control over nucleation and cell growth, resulting in decreased cell size and uniform, narrower cell size distribution. These attributes can reduce the foam's weight by minimizing resin uptake in sandwich structures. It can also potentially improve shear strength/strain properties for better fatigue performance. Enhancing PET foams with SABIC's new LNP COLORCOMP compound can address the evolving needs of multiple industries, including marine, building and construction, packaging and wind energy.

"Our novel LNP COLORCOMP WQ117945 compound may help to expand adoption of PET foam materials in a wide range of applications, from building insulation and cladding, to boat hulls and decks, to the core of wind turbine blades," said Sunamita Anunciação, LNP Business Development Manager, SABIC. "In addition to improving PET foam's mechanical properties, our technology helps reduce weight, which opens new opportunities for sustainability. For example, lighter foam core materials can allow designers to create longer, more-efficient wind



blades. Lighter materials also reduce environmental impacts from shipping. Working with our customers, SABIC continues to develop solutions that advance multiple aspects of performance and sustainability."

### CORE MATERIALS FOR WIND ENERGY

Disposal of wind blades is becoming a global concern. Due to their huge size and complexity, most blades are currently sent to landfills. The adoption of PET foams in the core of wind turbine blades offers the industry a strong, light, recyclable option over incumbent materials, such as balsa wood and PVC foam. Weight reduction is also a key issue in wind blade design. Extending blade length to increase the amount of captured energy adds significant weight to the blade. SABIC's LNP COLORCOMP WQ117945 compound can significantly reduce foam cell size (as much as three-fold) compared to standard nucleating agents such as talc, while decreasing cell size disparity by a factor of up to five. These factors help to reduce resin uptake by the foam during composite manufacture, resulting in a lighter-weight blade.

In terms of strength and other mechanical properties, high-density PET foams can potentially compete with balsa wood, while avoiding wood's natural variations. Further, as thermoformable polymers, PET foams offer greater freedom in the design and shaping of wind blades as compared to balsa. They also offer stable supply, cost-effectiveness, consistent material properties and much less resin uptake.

### BEYOND PET

Besides being used as an effective nucle-





ating agent for foaming processes such as extrusion foaming, injection foaming and bead foaming, SABIC's new nanotechnology solution can also act as a rheological modifier for improving melt strength and thermoformability. The nanotechnology SABIC is using can be adapted for other resins besides PET, making it a good candidate for use in a wide range of different industries.

**Graphs and images show cell analysis of polyethylene terephthalate (PET) foam produced using conventional nucleating agents compared with PET foam produced using SABIC's new LNP™ COLORCOMP™ compound. This new compound improves control over nucleation and cell growth, resulting in decreased cell size and uniform, narrower cell size distribution.**

Source : Sabic

## **TORAY EXPANDS LIVMOA™ PROTECTIVE CLOTHING LINEUP BY LAUNCHING VERSIONS FOR HIGH-PRESSURE WATER APPLICATIONS AND CLEANROOMS**

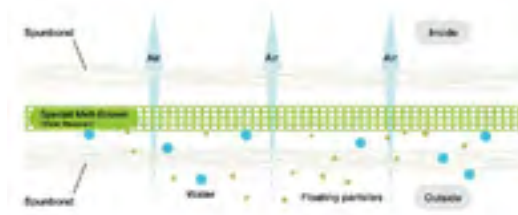
Tokyo, Japan, January 13, 2020 – Toray Industries, Inc., announced today that it will soon augment its LIVMOA™ range of single-use protective clothing, which is both user friendly

and exceptionally comfortable. In January, it will bring out the LIVMOA™ 4000 for high-pressure water applications. February will see the company release an upgraded version of LIVMOA™ CL sterilized clothing for cleanrooms. The introductions will be in Japan, with the two new offerings becoming available overseas later.

LIVMOA™ 4000 is breathable and complies with the JIS Type 5 and 6 standards for chemical protective clothing. It employs a proprietary SMS (spunbond + meltblown + spunbond) nonwoven fabric. The clothing thus protects wearers from dust and can also withstand a water pressure of 1,000mm H<sub>2</sub>O (see note 1), which is hard to achieve with regular SMS fabric. The meltblown layer keeps dust and water out while delivering an air permeability of around 10 cc/cm<sup>2</sup>/sec. Toray is building a stable product supply system by manufacturing the fabric at its plant in Japan.

LIVMOA™ 4000 can be worn where water resistance is necessary, a good example being waste disposal sites (see note 2). Such locations are essentially off-limits to LIVMOA™ 2000 and 3000 clothing, which are also breathable. Participants in a testing program rated LIVMOA™ 4000 very highly for its exceptional comfort and soft fabric.

### **Toray upgraded LIVMOA™ -**



**CL based on feedback from users at public research and academic institutions.**

**This offering originally launched in 2019 under the**

**supervision of the Research and Development Center for Cell Therapy of the Foundation for Biomedical Research and Innovation at Kobe. The company enhanced usability in several respects. It integrated the mask cover to improve wearability, optimized the hood opening for a better fit with goggles, and slimmed the sleeves and legs to improve mobility.**

The company has expanded the LIVMOA™ series since bringing out the high-breathability LIVMOA™ 3000 in 2017 to cater to different work environments. The LIVMOA™ 5000, for example, has helped prevent recurrences of Ebola infections in the Republic of Guinea. Toray released the LIVMOA™ CL for cleanrooms. The new LIVMOA™ 4000 and upgraded LIVMOA™ CL make it possible for even more workplaces to take advantage of the safety and comfort of the LIVMOA™ series.

One priority of Project AP-G 2022, Toray's medium-term management program, is to push ahead with the Life Innovation Business Expansion Project. That undertaking aims to help boost the quality of healthcare and reduce burdens on medical institutions, improve health and longevity, and enhance safety. The company will accelerate LIVMOA™ series development in Japan and overseas and drive further progress with protective clothing safety and comfort.

Source : Toray





### COHAMA AND BASF JOINTLY DEVELOP HAND STRAPS MADE WITH BASF'S ELASTOLLAN TPU FOR TRAINS

- BASF's low smoke, non-halogen-based flame-retardant TPU complies with EN45545-2 certification for public transportation
- Elastollan 1185A 10 HFFR possesses high fatigue and tensile strength while providing excellent haptics and abrasion resistance

Seoul, Korea – January 14, 2021 – CoHaMa Co., Ltd. (CoHaMa) has introduced hand straps made with BASF's Elastollan® thermoplastic polyurethane (TPU). Compared with Polyvinyl chloride (PVC), Elastollan 1185A 10 HFFR meets industry standards for flame retardancy as per UL94V0 requirements as well as low smoke density and low toxicity, in accordance with EN standard EN45545-2.

"This is a great success for BASF and CoHaMa for TPU in rail transportation. Flame retardancy, low smoke density, and excellent durability are key considerations when we design environmentally friendly and safe products for passengers," said Peter Jang, General Manager, CoHaMa Group.

Additionally, owing to its flexibility and resistance to long term stress, the innovative material solution can be widely used for other rail transportation and aerospace applications.

"Our state-of-art TPU technology has already been widely used in the wire and cable application for automotive

and personal electronic devices. With the successful launch of the hand strap application, we have again demonstrated our ability to be a total solutions provider by offering the best material



solution and technical service for process and quality management. In turn, we expect this will further strengthen our footprint in the public transportation market," said Desmond Long, Vice President, Business Management Transportation, Performance Materials Asia Pacific, BASF.

Source : BASF

### BOSTIK STRENGTHENS ITS INSTANT ENGINEERING ADHESIVES BUSINESS

**Arkema announces an investment in CMC (Crackless Monomer Company), a joint venture between Bostik and Taiwanese company Cartell Chemical Co, a leading supplier of cyanoacrylate solutions, to accelerate the development and production of high value-added engineering adhesives.**

CMC, which will be 51%-owned by Bostik for an investment of around US\$ 11 million, will produce specialty cyanoacrylate monomers on an industrial scale at a competitive cost, enabling Bostik to accelerate the development of high value-added engineering adhesives dedicated notably to the electronics, medical

equipment and DIY markets.

This investment complements the acquisition of Afinitica in 2018, and enables Bostik to further expand its range of instant engineering adhesives, manufactured through a patented and innovative "crackless" process. The adhesives formulated through this process have unique properties, which offer added comfort to the end-users.

This project is perfectly coherent with Bostik's sustainable growth strategy. It fits well with the trend of replacing traditional bonding with cutting edge, environmentally friendly technologies that enable lightweighting.

Source : Arkema

### HENKEL HONORS SOLVAY WITH HOME CARE INNOVATION AND SUSTAINABILITY AWARDSBRUSSELS,

Brussels, January 26, 2021 Solvay has been acknowledged by Henkel for its contribution to Innovation and Sustainability in the home care field with two awards, runner-up in the 2020 Innovation Contributor category and runner-up in Sustainability during the 2021 American Cleaning Institute (ACI) annual convention held virtually this year.

"I'm proud of our teams, their agility and the collaborative spirit they've shown in delivering such innovations to our customers," said Michael Radosich, Solvay Novacare GBU President. "We have worked hard to earn Henkel's trust and build a strong relationship that engenders mutual and sustainable value for both of our companies."

The Innovation Contributor Award recognizes new Actizone™, a patented



technology that delivers 24-hour anti-microbial protection to give consumers peace of mind and confidence in knowing the hard surfaces in their homes are clean and safe. The Award also lauds Solvay's Actizone™ team for its agile support along the product development journey from registration to rollout.

"Actizone™ technology is a full formulation development bringing a breakthrough performance attribute to disinfectant cleaners for hard surfaces to last and protect consumers against bacteria and virus for 24 hours," explained Kamel Ramdani, Global Technology Director and Technical Leader of Actizone™ Project. "Our collaboration with Henkel demonstrated our common commitment to quickly bring innovative solutions to consumers in the Covid-19 pandemic situation," added Oliver Hufer, Vice-President Actizone™ Incubator.

Solvay is also a proud winner in the Sustainability category for Rhodasurf® 6 NAT, a natural-based nonionic surfactant that allows detergents to be designated as a U.S. Environmental Protection Agency (EPA) Safer Choice and U.S. Department of Agriculture-certified with a 99% bio-based clean claim.

"Rhodasurf® 6 NAT is an alternative to synthetic surfactants. It is produced without petrochemicals and uses renewable carbon throughout ingredient development," explained Galder Cristobal, Home & Personal Care Research and Innovation Director at Solvay. "The Life Cycle Analysis for this bio-based surfactant for home care shows how we can save up to 30% in non-renewable carbon resources and up to 20% in carbon dioxide emissions."

"This holistic contribution to innovation and sustainability underlines our continuous, strong partnership throughout the years," explained Thorsten Bastigkeit, Corporate Director, Head of

Future Science Laundry and Home Care at Henkel.

Source : Solvay

## SABIC AND PLASTIC ENERGY SET TO START CONSTRUCTION OF PIONEERING ADVANCED RECYCLING UNIT TO INCREASE PRODUCTION OF CERTIFIED CIRCULAR POLYMERS

- SABIC and Plastic Energy are set to start construction of world's first commercial unit to significantly up-scale production of certified circular polymers derived from used plastic
- The engineering and construction stage brings this pioneering project one step closer to beginning operations in Geleen, The Netherlands
- Project demonstrates Plastic Energy and SABIC's ongoing commitment to drive towards a circular economy for plastics by increasing the availability of more sustainable products

In another significant contribution towards the development of a circular economy for plastics, SABIC and Plastic Energy are set to commence construction on the first commercial unit to produce its flagship certified circular polymers, part of the TRUCIRCLE™ portfolio, which are made from the up-cycling of mixed and used plastic.

SABIC, a global leader in diversified chemicals, along with partner Plastic Energy, a pioneer in chemical plastics recycling, are set to start the construction phase for the unit, which will be

based in Geleen, the Netherlands and is expected to become operational in the second half of 2022. The project will be realized under a 50-50 joint venture called SPEAR (SABIC Plastic Energy Advanced Recycling BV) and is being executed with a Top Sector Energy Subsidy from the Ministry of Economic Affairs in the Netherlands.

As part of the project's market foundation stage, SABIC has worked together with Plastic Energy and leading customers and converters to produce and commercialise certified circular polymers since early 2019. The new unit will enable SABIC to significantly upscale the production of certified circular polymers to provide customers with greater access to sustainable materials which have been recycled, repurposed and produced in a way that can help protect our planet's natural resources, whilst acting as a drop-in solution.

'Advancements in this pioneering project take us one step closer to driving the change needed to become a circular global industry,' said Fahad Al Swailem, Vice President, PE & Sales at SABIC. 'We have overcome significant external, global challenges to reach this important milestone and remain fully committed to closing the loop on used plastic. We are continuing to collaborate on an unprecedented level with our partners upstream and downstream to achieve this.'

'It has been an exciting journey in making our vision of building advanced recycling plants come to life, and we are delighted to announce the construction of this new facility with SABIC,' said Carlos Monreal, Founder and CEO of Plastic Energy. 'We have worked jointly with SABIC towards our common goal of making plastics more sustainable and moving towards a more circular economy for plastics.'



SABIC's certified circular polymers are produced using Plastic Energy's advanced recycling technology to convert low quality, mixed, and used plastic, otherwise destined for incineration or landfill, into TACOIL. The TACOIL produced in the new commercial unit will be used by SABIC in their production process as an alternative to traditional fossil materials to create new cir-

cular polymers.

The circular polymers form part of SABIC's TRUCIRCLE portfolio and services for circular innovations. Launched in 2019, the TRUCIRCLE portfolio is a considerable milestone on the journey towards closing the loop and creating a circular economy for plastics and intends to provide manufacturers with ac-

cess to more sustainable materials. The TRUCIRCLE portfolio spans design for recyclability, mechanically recycled products, certified circular products from feedstock recycling of used plastic and certified renewables products from bio-based feedstock.

Source : Sabic

## INTERNATIONAL NEWS

### TOSOH LAUNCHES SALES OF SARS-COV-2 ANTIBODY DETECTION REAGENTS IN JAPAN

Tokyo, Japan— Tosoh launched two kinds of immunoassay reagents that detect antibodies to nucleocapsid protein (NP) of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) on December 2, 2020 for the Japan market. The product names for the Japan market are AIA-CL SARS CoV-2 NP-total antibody reagent and AIA-CL SARS CoV-2 NP-IgG antibody reagent. Please note that the overseas product names are subject to change.\*



These reagents detect IgG and total antibodies (including IgG and IgM) against NP of the SARS-CoV-2, respectively. Both reagents are for use with Tosoh's automated chemiluminescence enzyme immunoassay analyzers AIA®-CL2400 and another model of the AIA-CL analyzers. These two reagents require no manual preparation before use and offer results in as little as 15 minutes. They are expected to contribute to basic and clinical studies of SARS-CoV-2.

### The research and development of these reagents was

a result of collaborative effort by Tosoh, Yokohama City University, and Kanto Chemical Co., Inc., and was subsidized by the Japan Agency for Medical Research and Development (AMED). AMED support-

ed this R&D under its fiscal year 2021 project as part

of its research projects as countermeasures against infectious diseases such as viruses.

Tosoh is also working with Yokohama City University and other external entities on the R&D of a SARS-CoV-2 antigen test for its AIA-CL series analyzers. As ever, Tosoh aims to contribute to furthering medical research and practices.

\*The two reagents referred to in this press release are for research use only. Their performance in clinical use have not been established. These reagents, therefore, are not to be used for diag-

nosis or treatment purposes.

Source : Tosoh

### AIR LIQUIDE INAUGURATES THE WORLD'S LARGEST LOW-CARBON HYDROGEN MEMBRANE-BASED PRODUCTION UNIT IN CANADA

Air Liquide has completed the construction of the world's largest PEM (Proton Exchange Membrane) electrolyzer. Supplied with renewable energy, this unit is now producing up to 8.2 tonnes per day of low-carbon hydrogen in Bécancour, Québec. With this large-scale investment, the Group confirms its long-term commitment to the hydrogen energy markets and its ambition to be a major player in the supply of low-carbon hydrogen.

The new 20 MW PEM electrolyser, equipped with Cummins[1] technology, is the largest operating unit of its kind in the world and will help meet the growing demand for low-carbon hydrogen in North America. Bécancour's proximity to the main industrial markets in Canada and the United States will





help ensure their supply of low-carbon hydrogen for industrial use and mobility. The commissioning of this electrolysis unit increases by 50% the capacity of Air Liquide's Bécancour hydrogen production complex.

Compared to the traditional hydrogen production process, this new production unit will avoid the emission of around 27,000 tonnes of CO<sub>2</sub> per year, which is equivalent to the emissions of 10,000 cars per year. The choice of Bécancour is based on two attributes of the site: the access to abundant renewable power from Hydro-Québec and the proximity to the hydrogen mobility market in the northeast of the continent.

Susan Ellerbusch, CEO, Air Liquide North America and Group Executive Committee Member:

"The fight against climate change is at the heart of the Air Liquide Group's strategy. The inauguration of the Bécancour site in Canada marks an important step in the implementation of this strategy. With this world's first, Air Liquide confirms its commitment to the production of low-carbon hydrogen on an industrial scale and its ability to effectively deploy the related technological solutions. Hydrogen will play a key role in



the energy transition and the emergence of a low-carbon society."

Source : Air Liquide

## LYONDELLBASELL AND SINOPEC FINALIZE JOINT VENTURE TO MANUFACTURE

## PROPYLENE OXIDE AND STYRENE MONOMER IN CHINA

ROTTERDAM, Netherlands and BEIJING, Jan. 25, 2021 /PRNews-wire/ -- LyondellBasell (NYSE: LYB), one of the largest plastics, chemicals and refining companies in the world and the China Petroleum & Chemical Corporation (Sinopec), one of the largest integrated energy companies in China, today announced the signing of an agreement to form a 50:50 joint venture (JV) which will produce propylene oxide (PO) and styrene monomer (SM) in China's domestic market. First announced on December 23, 2019, the JV will operate under the name Ningbo ZRCC LyondellBasell New Material Company Limited.

"As China's economy continues to grow, so will demand for propylene oxide and styrene monomer. We are excited to expand our relationship with Sinopec through this joint venture in order to better serve China's domestic market. Sinopec's outstanding operational capabilities combined with LyondellBasell's leading technology is a win-win," said Torkel Rhenman, Executive Vice President, Intermediates and Derivatives, and Refining.

"Built on the remarkable success of our first Joint Venture, we are very delighted to continue to enhance the important partnership with LyondellBasell for future achievements. The establishment of the new Joint Venture is not only in line with the national drive for further opening-up, but also a vital step for Sinopec to deepen and expand our international operations," said Yu Baocai, Senior Vice President of Sinopec Corp. "We have great expectations on the new Joint Venture for propelling the economic development of the city of Ningbo to a new level. During the 14th Five-Year Plan period (2021-2025), Sinopec will continue to promote green industrial

upgrading and innovative transformation, contributing to the everlasting economic growth of Zhejiang Province and Eastern China, and even the development of the chemical industry in China."

The JV will construct a new PO and SM unit in Zhenhai Ningbo, China. This new unit will have 275 kilotons per annum (KTA) capacity of PO and 600 KTA capacity of SM. The unit will use LyondellBasell's leading PO / SM technology. Products produced by the JV will be marketed equally by both partners, significantly expanding their respective participation in the Chinese market for PO and SM. Startup is expected at the end of 2021.

The formation of the JV is subject to approvals by relevant government authorities, including antitrust review by the State Administration for Market Regulation. LyondellBasell expects to make its equity contribution to the JV during the first quarter of 2021.

**According to IHS Markit, China accounts for more than 60 percent of chemical market demand in Asia and represents 40 percent of global chemical market growth over the next decade. PO and SM are core products of LyondellBasell and are used in a variety of applications including packaging, building and construction, furnishings and transportation.**

LyondellBasell operates five wholly-owned facilities in China which are located in Guangzhou, Suzhou, Dalian, Dongguan and Changshu

Source : LyondellBasell





*Continued from page 28*

trend that eats away at the dominance of white.

While the total numbers aren't huge, brown, green, and violet are all consistent in color popularity. It will be a long time before they challenge white for the most popular, but for now, they add to the tremendous diversity of color in Asia Pacific.

"People in Asia Pacific really enjoy choosing colors for their vehicles. Colors are very human-oriented, flexible, and free, showing the diversity of the region and its people," said Chiharu Matsuhara, head of design, Asia Pacific.

South America: Conservative buyers choose more conservative colors

Colors like red and blue, which are so

popular in other regions of the globe, are still players in South America, especially among car buyers who are trying to express their individuality with sportier cars. What's more significant is the market's love of achromatic colors.

Historically, South American car buyers have chosen more traditional, less flashy colors. Like other regions, white is by far the favorite, covering about 39% of OEM vehicles. The popularity of gray and silver is higher than in other regions, with 18% for each. Black has the smallest preference among the achromatic colors, with 12%. Altogether, the achromatic colors command an 87% share.

Unlike other regions, red stands out as the top chromatic color with 9%. Diverse shades of blue are important worldwide, while in South America, blue is just 2%

of the market. Orange is a newcomer, brown is holding steady, and beige has all but disappeared.

"Trends that are popular in other parts of the world are slower to catch on in South America. While this is a continent with many colorful aspects of its culture, people tend to be more conservative with their cars," said Marcos Fernandes, Director Regional Business Management, Automotive Coatings South America.

The BASF Color Report for Automotive OEM Coatings is a data analysis from BASF's Coatings division based on global automotive production and paint application to light vehicles in 2020.

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

Source : Chemical Market

## Formulating New Beauty and the formulations that capture them

Muttenz, January 5, 2021 – Charlotte Stricane fills an intriguing double role at Clariant: As Senior Applications Development Manager in the Active Ingredients unit for Personal Care, she defines new trend-based beauty concepts as well as the formulations and ingredients that best capture their spirit. In our interview, she tells us about her work, her favorite new ingredients – and why she sometimes hesitates to talk about them at parties.

Ms. Stricane, each year, you define a new trend concept under which Clariant offers special ingredients and inspirations to its customers in the cosmetic industry. This year it's called "RetroFuture". What is it about?

RetroFuture is about longing for the good old days but not wanting to compromise on all the good things we have

now. Life can seem very complicated today, and we all like what we know from our childhood. But obviously there was less consideration for resources, less knowledge and less progress – especially in terms of sustainability and clever ways to optimize things. A good phrase for summarizing this new attitude is perhaps "nostalgia with a conscience".

**Now that you say it, it instantly feels familiar. But how does it relate to beauty products?**

In cosmetics, it essentially means that people look for familiar ingredients and formats but want them with a more sustainable and advanced background. It can also mean they long for an effect they know but prefer it from new and improved ingredients. Or even that they're attracted to a new ritual because it's based on a familiar yet redesigned

cosmetic format.

**How do you go about identifying a big new general trend like this?**

It's not exactly a linear process, and one that is going on subconsciously all year. I browse through magazines, see ads, listen to the radio when I commute. Of course I read the trade press and trend studies from others, but all this stays subliminal until once a year I make a conscious effort to connect the dots. Then, I guess like most consumers would be, I'm suddenly hit by what's been in front of me all along.

**And this time you were hit by "RetroFuture"?**

Well, not instantly by the name, really, we came up with that later. But yes: Apart from all the advertising, articles



## VIEWS AND STATEMENTS



"We are very pleased to grant this license to Cool Roof which demonstrates great professionalism in cool roofing solutions. Together we intend to work on the development of reflective roofs in France and in Europe. We are convinced that this passive air conditioning to cool buildings and cities is one of the solutions to fight against global warming"

**- David Silagy, General Manager Europe Arkema For Pvd Materials**



"For 2022, the overall color palette is dominated by shades of yellow, and many of the other colors are joined to the yellow family. For instance, many of the greens, reds, oranges and some of the blues, have a high yellow influence, creating a sense of the warmth of human connections that are interrupted by the social isolation the pandemic forces on us. In addition, the yellowish greens are indicative of our need to reconnect with nature and avoid the synthetic, including all of the screens and digital connections we must now use excessively."

**- Judith van Vliet, ColorWorks Senior Designer and leader of the ColorForward team**



"We are very excited to bring RODIM as part of a complete one stop shop offer to BMW. RODIM benefits from BASF's extensive experience in the coatings business and is perfectly aligned with our paint brands to help body shops streamline processes and optimize results. As a reliable and trusted total solutions partner, we ensure BMW customers have access to the best combination of solutions to drive performance efficiently and safely," he said"

**- said Chris Jackman, Director of Strategic Account Management, BASF Automotive Refinish Coatings Solutions.**



"Innovative cosmetics packaging using our certified renewable PP and PE polyolefins can make a significant contribution to reducing the fossil depletion and greenhouse gas emissions. The plant-based materials provide easy drop-in solutions to existing fossil-based plastic conversion processes and applications, without compromises on purity, quality, safety or convenience. SABIC is determined to help support its partners in benefiting from this potential."

**- Sergi Monros, Vice President of Performance Polymers & Industry Solutions for Petrochemicals at SABIC.**



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

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



## VIEWS AND STATEMENTS



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

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



"Circular performance measurement is an evaluation of the resilience of a business, not just a sustainability assessment. The response from business to the introduction of Circular Transition Indicators (CTI) over the last year has exceeded our expectations. As investors, customers and regulators increasingly request information on circular performance, those companies equipped to measure, monitor and improve their circularity can now understand how to enhance business continuity, effectiveness and showcase their true leadership. We invite companies of all sizes and industries to demonstrate their commitment to the circular economy by completing their assessments through CTI."

**- Federico Merlo, Managing Director of Circular Economy at WBCSD**



"With chemical recycling, you can recreate the raw materials and create virgin plastics with the same characteristics of the normal plastic. You can basically produce the whole range of polymers," a subsidiary of Italian oil and gas company Eni, which is building a demonstration facility."

**- Daniele Ferrari, chief executive of Versalis,**



"This collaboration with Solvay is a significant step in research on advanced materials, which are part of the R&D programs to be developed by the Leonardo Labs. The research area, central to Leonardo, is a key factor of competitiveness, and it will make it possible to improve the performance and safety of our products, to expand its potential, with a direct return on the environmental impact and consumption of resources, boosting a circular and efficient production system."

**- Roberto Cingolani, Leonardo's Chief Technology and Innovation Officer.**



"Given the current tight North American market, we are prioritizing our domestic clients, but over time, the hub will allow us to leverage our feedstock advantaged, polymer production assets in the U.S Gulf Coast, Pennsylvania, and West Virginia, to best meet our international clients needs. With excellent access to national rail and highway networks this important new logistics and distribution facility in the South Carolina port region significantly enhances Braskem America's international export capability."

**- Alexandre Elias, Vice President, Olefins & Polyolefins North America**



and everything else I absorbed, this year a big factor was music, where there are many genuinely new tunes that still have retro vibes. When it clicked, I was suddenly recognizing that same special combination of the old and the new everywhere.

Your job at Clariant is not only to sense and formulate such trends, but also to design the formulations and select the ingredients that best cater to them. How did you translate “RetroFuture” into these very specific things? And what kind of training does one need to fill this double role?

I have a master’s degree from ISIPCA in Versailles, which teaches chemistry combined with cosmetic science and marketing and thus actually perfectly prepared me for this role. Two of my favorite ingredients for the new concept are Rootness™ Energize and Prenylium™. The first is an oil extracted from the roots of Luffa, a cucumber species traditionally used for bath or kitchen sponges, and which we put into a trendy new face serum. The second is a root extract from a mulberry tree, which is

quite uncommon because to get it, you would normally have to uproot the tree first. To avoid this, and to make the extraction of both ingredients more efficient and sustainable, we rely on Plant Milking® technology.

**You milk plants? Like French farmers milk cows to make camembert?**



**Ha-ha, not quite – though, in fact, the »milk-ing« is**

**done by a French partner of ours, Plant Advanced Technologies. They have found a non-deadly way to get the best out of plants by actually not planting them. Using aeroponic cultivation, where the roots dangle in misty air and get their nutrients from baths, they stimulate both rare and traditional species to yield**

**much more active ingredients and valuable compounds. These are regularly harvested by cutting the roots, and then allowing them to regrow like hair.**

**Sounds absolutely fascinating – and like a perfect fit for the RetroFuture concept.**

The technology uses plants we know and does so in a highly advanced and sustainable way. Yes, I think it perfectly summarizes the new trend.

**One last question: What do your friends say when you tell them about your work?**

To be honest, I generally tend not to go into too much detail, because I’ve found my enthusiasm can be a bit overwhelming. But seeing how well our new concept and what’s behind it is received, I should perhaps think about being less reserved ...

More Information :- [www.clariant.com](http://www.clariant.com)  
Source : Chemical Market

## CHINAPLAS 2021: BASF Empowers the Future - Innovations Create Value for Customers, Society and the Environment

- Innovations showcased include low-emission and energy-efficient solutions, as well as long-lasting and sustainable materials
- BASF at CHINAPLAS 2021: Hall 17, Booth no.: 17E101, Shenzhen World Exhibition & Convention Center, PR China, April 13-16

**S**henzhen, China – January 11, 2021 – At CHINAPLAS 2021, BASF will demonstrate how it supports customers to develop innovative solutions that also meet the needs of society and the environment.

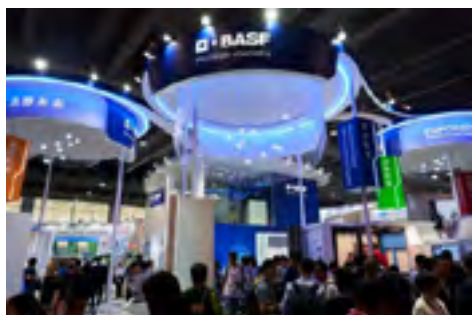
Business success means not only creating value for our business, but also the environment and society. Chemistry is

an enabler for a more sustainable future. Our high-performance plastics, for example, help to increase energy efficiency and save resources because they are long-lasting and lightweight,” said Andy Postlethwaite, Senior Vice President, Performance Materials Asia Pacific, BASF. “Our showcase at CHINAPLAS 2021 will strongly reflect our commitment to sustainability – how we help





our customers to be more successful and achieve their sustainability targets.”



The innovations include low-emission and energy-efficient solutions for automotive, sustainable materials for furniture and sports solutions, 5G infrastructure solutions, recyclable exoskeleton suits, and additives that extend the service life of plastics. The certified

compostable and partly bio-based ecovio® can be used in a variety of applications to close the loop of the food value chain and which are an ideal answer to China's latest plan to ban or significantly reduce single-use, non-biodegradable plastic products in the next five years. It can be employed in soil-biodegradable agricultural films as well as in certified compostable food packaging and film applications like bags for the collection of organic waste or fruit and vegetable bags. After use, these applications can be composted together with organic waste by industrial composting (acc. to European Standard EN 13432), thus enabling organic recycling and closing the nutrient loop towards a Circular Economy.

At CHINAPLAS 2021, BASF will present new co-created products, including a fridge, cold storage and trunk floor made of PU waste.

**“By connecting creative minds, we help find the best solutions for market needs and speed up the transition to a circular economy. We invest in partnerships with stakeholders across the value chain to realize sustainability goals,” added Postlethwaite.**

Source : BASF

## SIBUR Holding PJSC Selected LyondellBasell Technology for its Amur Gas Chemical Complex in Far East Russia

ROTTERDAM, the Netherlands, December 15, 2020 – LyondellBasell (NYSE: LYB), the world's leading licensor of polyolefin technologies, today announced that the Amur Gas Chemical Complex project, being implemented by SIBUR Holding PJSC, the largest integrated petrochemicals company in Russia, has selected LyondellBasell's Spheripol technology for a new facility.

The process technology will be used for a 400 KTA polypropylene unit to be built in Svobodny, Amur region, Russia.

“We are honored that SIBUR has again opted to utilize the Spheripol technology for its Amur GCC project in the Russian Far East,” said Jim Seward, senior vice president of research and development, technology and sustainability at LyondellBasell. Seward added: “The process robustness and CAPEX effective-

ness of the Spheripol process allows SIBUR to create benchmark polymers on a sustainable basis.”

**“LyondellBasell's technology will help to achieve the highest level of diversification at Amur GCC and expand SIBUR's mostly homopolymer-oriented portfolio with a few PP random copolymers by adding a wide array of other copolymers, e.g. high-impact polypropylene-ethylene copolymers, and thermoplastic grades”, said Pavel Lyakhovich, Management Board Member and Managing**

**Director of Basic Polymers Division at SIBUR. Total design capacity of AGCC is 2,700,000 KTA of PE and PP products.**

Spheripol is the benchmark PP process technology with more than 30 million tons of licensed capacity. The latest fifth generation Spheripol technology includes process improvements that further maximize operational efficiency. The plant will commence operations using Avant ZN catalyst.

New licensees can take advantage of LyondellBasell's in-house expertise of continuous production improvement, sustainable product development and catalyst know-how, by optionally joining our Technical Service program.

Source : LyondellBasell



# UFlex Chemicals Business Secures India Patent for New Process to Derive Epoxy Ester Resin

Noida, India, 18.01.2021: The Chemicals Business of UFlex Limited today announced securing of a patent (Patent No 354903) on 'A process for the preparation of Epoxy Ester Resin' in accordance with the provisions of the Patents Act, 1970. This is the first patent for Chemicals business ever in India and it will be considering applying for a global patent in due course of time. UFlex' Chemicals Business is a leading manufacturer of Inks, Coatings and Adhesives for flexible packaging, cartons, labels, and paperboard.



**UFlex' new patent will ensure technical advancement in providing a process for resin preparation wherein no wastewater treatment is required which is a significant move in the direction of sustainability. Furthermore, Epoxy Ester Resin prepared by this process will be used in radiation curing or energy curing and therefore curing will be faster, unlike the typical Epoxy Ester resin which is thermally cured and takes a longer time besides being uneconomical. With enhanced stability of**

**coating and its chemical resistance attributes a total of 16 claims have been taken under this patent.**

On securing this patent, Rajesh Bhasin, Joint President, Chemicals Division,

UFlex Limited said, "We are extremely delighted with the continued strengthening of our R&D prowess. The issuance of this patent is another step in the development of a robust portfolio for our business. This is part of our initiative to backward integrate, using our inherent strengths. Such initiatives help us to have greater control on product quality and supply security. This unique achievement is all because of the progressive approach, years of hard work and commitment."

Epoxy Ester resins are known for their use in coatings, paints and adhesives. Before this patent was registered, conventionally Epoxy Ester resin is produced in a two-stage process. The first stage is condensation which generates a lot of salt that is removed through several water washings, resulting in high effluent generation. Typically, wastewater contains 50,000-95,000 ppm TDS and 50,000-60,000 ppm COD, which, therefore, requires large capital investment

for wastewater treatment plants adding to the capital expenditure and operating expense of the process of Epoxy resin preparation. In the second stage of a conventional process, Epoxy resin is converted into Epoxy Ester resin with these verification process which results in the formation of undesirable Epoxy Ester resin, which has a dark colour and odour.

However, UFlex' newly invented and patented approach arrests the challenges posed in a conventional method as the Epoxy ester produced has no waste water generation, no odour and neither a dark colour which is good for fast curing coatings with efficient cost effective processing.

Epoxy Resins are gaining supremacy over the conventional use of Vinyl Esters and polyesters in the Flexible Packaging industry as well as in Offset printing areas. Epoxy Resins deliver performance attribute in five key areas.

- Better adhesion by allowing to bond to the reinforcement or core
- Superior mechanical properties imparting higher strength and stiffness
- Improved resistance to fatigue and micro cracking issues
- Reduced degradation from water ingress. Epoxy Resins have lesser shrink ability by up to 50% in comparison to Vinyl Esters and Polyesters.
- Increased resistance to osmosis which is way better than Vinyl Ester and Polyesters

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

Source : Chemical Market



# Lanxess Aims to Acquire Disinfection and Hygiene Solutions Provider Theseo

- Technical expertise and broad product portfolio will strengthen LANXESS' position in growth market of animal hygiene
- Strong presence of Theseo in Europe will complement the global material protection business of LANXESS

Cologne/Laval, January 15, 2021 – Specialty chemicals company LANXESS intends to further expand its Consumer Protection business and has entered into exclusive negotiations to acquire the Theseo group. The French group, headquartered in Laval, is a leading manufacturer of disinfection and hygiene solutions in Europe and Latin America. The products are used in particular in livestock farming to prevent and control diseases. Subject to completion of the transaction, LANXESS will significantly expand its range of products for the growth market animal hygiene and will in future also be able to offer products for the animal nutrition industry.

Prior to the execution of the envisaged transaction, the usual French employee information and consultation process will be followed. Furthermore, the transaction is subject to antitrust clearance. Thereupon, the parties expect the envisaged transaction to be completed in mid-2021.

“We are focusing on profitable specialty chemicals and here consumer protection products play an important role. Once we complete the planned acquisition of Theseo, we will yet again expand our high-margin business in this area,” said Matthias Zachert, Chairman of the Board of Management of LANXESS AG.

LANXESS plans to finance the envisaged acquisition with an enterprise val-

ue of approximately EUR 70 million out of cash. In 2020, Theseo is expected to generate sales of around EUR 33 million and an EBITDA in the mid-single-digit million euro range. Within three years following the completion of the planned transaction, LANXESS expects an additional annual EBITDA contribution in the same amount from synergy effects. The envisaged acquisition will already be earnings per share\* accretive in the first fiscal year after its completion.

## Perfect addition to the material protection business

Theseo has about 100 employees and sites in Laval (France), Wietmarschen (Germany), Hull (UK) and Campinas (Brazil). LANXESS intends to integrate the business into its Material Protection Products business unit, where it would complement the portfolio of disinfection and hygiene solutions.

“A successful acquisition of Theseo will allow us to strengthen our posi-



tion in the field of animal hygiene and to expand our portfolio with further renowned premium products,” said Michael Schäfer, head of the Material Protection Products business unit. “The strong presence of Theseo in Europe will drive our business and complement our global presence. We are looking forward

to benefitting from experienced employees, technical and regulatory expertise, well-known brands and an established distribution network.”

Theseo offers an extensive portfolio of disinfection and hygiene products for all areas of pig and poultry. Herein, LANXESS sees strong growth prospects due to rising biosecurity requirements. Theseo also has a well-positioned portfolio in water hygiene as well as animal nutrition. With the continuous drive towards antibiotic free meat, these products play an ever-growing role in livestock production.

## LANXESS' materials protection business

The LANXESS Material Protection Products business unit employs around 660 employees and has production sites in Krefeld-Uerdingen and Dormagen (Germany), Sudbury (Great Britain), Pittsburgh and Memphis (USA), Jarinu (Brazil), Jhagadia (India), Changzhou (China) and Singapore.

Products from this business unit are used in a huge variety of applications worldwide. With its broad range of active antimicrobial ingredients and formulations, the business unit provides customer-specific solutions for various branches of industry such as disinfection, paints and coatings, wood protection, construction and beverages. Material Protection Products also provides a comprehensive technical service and regulatory support as well as project-specific research and development.

More Information [www.lanxess.in](http://www.lanxess.in)

Source : Chemical Market





# Avient to Expand Color Concentrate Capabilities in Vietnam

Cleveland, OH, U.S.A – January 15, 2021 – Avient Corporation, a premier provider of specialized and sustainable material solutions and services, will complete an expansion of existing production capabilities for color concentrates at its Binh Duong site in Vietnam by next month. The move will improve speed-to-market and service level for local customers seeking unique color solutions to enhance aesthetics and appeal of high-quality end products.

**“Demand for plastics has become one of the Vietnam economy’s fastest growth areas,” says Say-Eng Lee, vice president and general manager, Color & Additives Asia for Avient. “As consumption grows, requirements for high-quality color concentrates are becoming more challenging as well, as top brands focus on novel color solutions. We have increased our production space by over 30 percent and added to our state-of-the-art machinery**

**portfolio to shorten lead times for developing and**



**producing high-quality color concentrates. As a result, local customers will benefit from an efficient and agile setup, along with expert technical support. In addition, we can be more responsive in accelerating customer development times and help them to reduce time to market.”**

According to Vietnam Economic News, Vietnam’s plastics industry is currently experiencing an annual growth rate of 16 to 18 percent, with key segments including packaging, construction and electronics. Avient’s enhanced local

turnaround for color concentrates will support middle to high end markets with consistent color quality, creative application of special effects, and unique colors to enhance product appeal and match branding requirements. With the expansion, Avient will also improve lead times for color matching locally.

Notably, Avient’s sustainable color concentrates can also support steps within the country to encourage plastic waste recycling and reuse. For example, the use of recyclable CESA™ IR additives, which enable black plastics to be identified for recycling, can reduce the environmental impact of dark colored packaging. Avient also recently strengthened its global commitment to help customers tackle and overcome the challenge of plastics recycling with the official opening of its new CycleWorks Innovation Center in Italy. The new center will focus on facilitating partnerships and enhancing new technologies to further the viability of recycling.

Avient also offers color concentrates for biodegradable plastics PLA, PHA, PHBV, PBS, PBAT and special blends of those materials, which do not compromise the organic recyclability of the resins they enhance.

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

Source : Chemical Market

## Axilone is first manufacturer of sustainable cosmetics packaging made with Eastman Cristal Renew to obtain ISCC PLUS certification in multiple regions

PARIS, Jan. 6th, 2021 — Axilone Group announces its ability to manufacture a wide range of sustainable luxury cosmetics packaging made possible

through Eastman's Advanced Circular Recycling technologies and Eastman Cristal™ Renew copolyester.

With 50% certified recycled content\* derived from Eastman's molecular recycling technologies, Cristal Renew is part of a broad portfolio of sustainable





resins now offered at scale by Eastman, a global specialty materials company. Axilone, a leading global producer of luxury cosmetics packaging, is the first manufacturer working with Eastman's family of Renew resins to obtain ISCC PLUS certifications for sites on three different continents, enabling it to produce packaging with high levels of certified recycled content\* in the U.S., Europe and China.

"With Cristal Renew, we are thrilled to offer brands the same level of performance and design freedom they have come to expect from our prestige packaging — now with a compelling sustainability profile," said Reynald Trochel, Axilone Group innovation leader. "At Axilone, we have been very active in our research and development efforts aimed at significantly minimizing the environmental footprint of our products and the use of fossil materials. Eastman's Cristal Renew provides a robust solution that

diverts waste from landfills and uses ISCC-certified recycled content\* in place of fossil feedstocks."

Axilone is now able to supply packaging made from Cristal Renew for a wide range of stock and custom-made injection-molded applications for the make-up, skin care and fragrance segments globally. Through International Sustainability & Carbon Certification (ISCC), Axilone and Eastman are able to offer brands the peace of mind that comes from independent, third-party verification of recycled content claims.

**"Given our long history of collaboration on cosmetics innovations, Axilone is a natural fit for bringing sustainable packaging made from Eastman Renew mate-**

**rials to a global audience," said Renske Gores, segment market manager for specialty plastics-cosmetics packaging at Eastman. "These materials deliver significant environmental benefits, including land-fill diversion and reduced greenhouse gas emissions. And they are chemically identical to Eastman's heritage products, so they retain the best-in-class clarity, luster and processability brands expect."**

Source : Eastman

## Arkema and Cool Roof Join Forces to Create More Durable Reflective Roofs

**Arkema and Cool Roof France (specialist in reflective thermal protection coatings for buildings) signed a contract granting Cool Roof an exclusive license to use Arkema's Kynar Aquatec® PVDF resin, used in the topcoat. Cool Roof thus offers an extremely high-performance solution aimed at building managers in mass distribution and logistics, those most concerned by the benefits of reflective roofs, or cool roofing.**



special buildings, which reflect solar radiation and thus make it possible to protect waterproofing membranes while considerably reducing air conditioning costs during periods of extreme heat.

Kynar Aquatec® is a solvent-free PVDF resin developed by Arkema for aqueous paint formulations which, when applied as a topcoat, provide lasting

protection for the whiteness and reflectivity of paints for up to 20 years. This product is unique on the market thanks to its exceptional properties of resistance to aging and mold. It is based on Arkema's expertise in Kynar® 500 PVDF

resins, which have been used for decades around the world to protect metallic coatings on buildings from corrosion and dirt.

This license will grant Cool Roof the exclusive right to promote and use formulations with Kynar Aquatec® resin on its sites in France and main European countries as well as on the Ivory Coast, Senegal, in Morocco and Tunisia. "This exclusive partnership allows us to have the best quality cool roofing offer on the market. We have already produced many white roofs protected by a topcoat based on Kynar Aquatec® resin and the long-term results have met our customers' expectations", rejoices Ronan Caradec, CEO of Cool Roof.

Source : Arkema



## Price as on December 29, 2020

Name of Chemicals	Pack (Kgs.)	Price	Change (Rs./Kg)
<b>INORGANIC CHEMICALS</b>			
Ammonium Bicarbonate		60	
Ammonium Carbonate		55	
Ammonium Nitrate		65	
Borax (Granular)	50	48	
Borax (Powder)	50	42	
Bromine Liquid	50	265	
Calcium Carbonate(Acti- vated)	50	50	
Calcium Carbonate (Pre- cipitated)	50	30	
Carbon Disulphide	300	62	-1
Caustic Potash		77	1
Caustic Soda (Flakes)	50	30	
Caustic Soda (Lye)	Tanker	18	+0.50
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	178	
Titanium Dioxide Anatase (China)	25	150	
Titanium Dioxide (Rutile – R-902)	25	228	
Zinc Oxide (China)	50	93	

Name of Chemicals	Pack (Kgs)	Price	Change (Rs./Kg)
<b>ORGANIC CHEMICALS</b>			
Acetic Acid Glacial	35	50	+8
Acetone (GI Drums)	160	97	
Acrylamide (Liquid)	250	225	
Acrylic Acid	200	119	
Acrylonitrile		135	+3
Adipic Acid	25	92	
Aniline	200	84	
Benzene (Per Litre)	200	46	
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	110	
Butyl Acetate		104	+9
Butyl Acrylate	180	75	
Butyl Carbitol	190	87	
Butyl Cellosolve		95	
Butyl Stearate	190	105	
C9 Solvent		47.50	+1.50
C10 Solvent		63	
Cellosolve	195	105	
Chloroform		14.50	
Citric Acid		47	
m-Cresol	190	270	
o-Cresol	200	300	
p-Cresol	200	325	
Mixed-Cresol		85	
Cyclohexane		64	+3
Cyclohexanone	190	92	+10.50
Diacetone		99	
Dibutyl Maleate (DBM)		145	
Dibutyl Phthalate (DBP)		128	
Dicyandiamide (DCDA)	125	300	
Diethanolamine (DEA)		110	
Diethylene Glycol (DEG)	230	50	
Diethyl Phthalate (DEP)	200	95	



Name of Chemicals	Pack (Kgs)	Price	Change (Rs./Kg)
Diisobutyl phthalate (DIBP)		115	
Dimethyl formamide (DMF)		84	
Dioctyl Adipate (DOA)	200	148	
Dioctyl Maleate (DOM)		155	
Dioctyl Phthalate (DOP)	200	127	
2-EHA(2 Ethyl Hexyl Acrylate)	180	138	
Ethyl Acetate (Resale)	185	77	-9
Ethyl Acrylate (Intact)	180	121	
Ethylene Dichloride (EDC)	200	53	-3
Ethylene Glycol (MEG)	230	46	
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	80	
Isopropyl Alcohol (IPA)	170	105	-20
Maleic Anhydride (MAN)	25	86	
Melamine	25	103	
Methanol (Per Litre) (Resale)	200 Lit.	28.50	-1.50
Methyl Ethyl Ketone (MEK)	190	90	-5
Methyl Isobutyl Ketone (MIBK)		150	
Methylene Dichloride (MDC)	350	48	+2
Monoethanolamine (MEA)	180	100	
Octanol (2-Ethylhexanol)	170	115	
Octoic Acid		100	
Oxalic Acid (Punjab)	50	114	
Phenol (GI Drums)	215	78	-2
Phthalic Anhydride (PAN)	25	77	
Polyethylene Glycol (PEG 200)	230	93	
Polyethylene Glycol (PEG 400)	230	94	

Name of Chemicals	Pack (Kgs)	Price	Change (Rs./Kg)
Polyvinyl Alcohol (Gohsenol GH-17)	20	190	
Propyl Acetate		109	
Propylene Glycol (Imp.)	210	145	-15
Purified Terephthalic Acid (PTA)		54.50	
Sodium Alginate (China)	25	280	
Sorbitol	250	52	
Styrene Monomer (Resale)	185	80	-5
Tartaric Acid	50	350	
Thiourea	50	110	
Toluene (Per Litre)	200	51	
Trichloroethylene	330	52	
Triethanolamine (Resale)	210	92	
Triethylene Glycol (TEG)		107	
Vinyl Acetate Monomer (VAM)	185	72	
Wax Industrial	25	105	
Wax Paraffin	24	98	
m-Xylene		57	
o-Xylene (Per Litre)	200	53	
Xylene Mixed (Per Litre)	200	46	-2

## CHEMICAL MARKET LEADS PLATFORM

### Supplier?

You can post your product list just as restaurants post their menu items on Zomato. You can create your company profile just like the way you create your LinkedIn profile. Let the purchasers connect with you directly.

[Register For Leads Platform](#)



# Chevron Phillips Chemical Receives ISCC PLUS Certification, Secures Supply Agreement with Nexus as Advanced Recycling Program Matures

Chevron Phillips Chemical (CPChem) today announced two significant developments in its advanced recycling program which converts waste plastics into circular polyethylene. Since introducing Marlex® Anew™ Circular Polyethylene in October, the company has received certification through the International Sustainability and Carbon Certification PLUS (ISCC PLUS) process and signed a long-term supply agreement with Nexus Fuels LLC (Nexus) as its first supplier of pyrolysis oil.

The internationally recognized ISCC PLUS certification verifies Chevron Phillips Chemical meets the high standards required to hold the certificate, providing customers of Marlex® Anew™ Circular Polyethylene with added confidence in the certified circular product. This certification reflects the company's committed and growing efforts to create sustainable streams for waste plastics. Chevron Phillips Chemical's Cedar Bayou facility in Baytown, Texas, produces Marlex® Anew™ Circular Polyethylene. It is the company's first location to receive the ISCC PLUS certification, a status Chevron Phillips Chemical expects to seek as additional sites are added to the expanding advanced recycling program.

**Nexus, a proven leader in converting difficult-to-recy-**

**cle waste plastics into pyrolysis oil, has already begun supplying its high-quality, certified feedstock needed to produce Marlex® Anew™ Circular Polyethylene. Nexus has successfully obtained ISCC PLUS certification, which combined with Chevron Phillips Chemical's ISCC PLUS certification, establishes Marlex®**



**Anew™ Circular Polyethylene as an end-to-end certified circular product. Jeff Gold, Nexus founder and chief executive officer, said “Consumers and brands want action, not promises,**

**that address plastic waste.” Eric Hartz, president and co-founder, added, “Nexus and CPChem are delivering a real-world solution that is actively diverting plastic waste from landfills and the environment while generating high quality products.”**

The Nexus supply agreement and ISCC PLUS certification of both companies make Chevron Phillips Chemical well-positioned to further scale production of its circular polymer and deliver sustainable products for years to come. Chevron Phillips Chemical is targeting an annual production volume of 1 billion lbs. of Marlex® Anew™ Circular Polyethylene by 2030.

“The early success and certification of our advanced recycling program reinforces CPChem's drive to cultivate a circular economy for plastics,” said Jay Bickett, vice president of polymers and sustainability at Chevron Phillips Chemical. “CPChem continues to develop approaches that generate value from plastic waste and I am confident we will maintain a leadership role in delivering sustainable solutions long after we achieve our 2030 goal.”

Source : Chevron Phillips Chemical

## LOTTE Chemical develops PP materials for melt-blown filters for masks.

- Developed PP materials for mask filters for the extended persistence of

COVID19.

- Successfully launched 5 products in

the market in 2020 for stably supply of masks.





LOTTE Chemical has developed polypropylene (PP) materials for melt blown (MB) filters for safety masks.

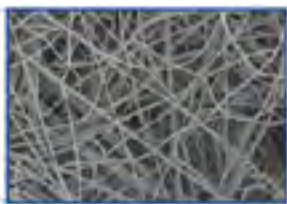
With the extended persistence of new COVID19, masks have become a daily essential and the demand also is constantly growing.

The key raw material of masks that block the virus is the static electric filter. Static electric filter is

produced using the MB method, which means "melt blown." The PP material that is melted with heat in the extruding machine is extruded through the nozzle to create the form of unwoven fabric. The MB fabric consists of micro-fine fibers that are 10µm or smaller with micro pores to block the smallest particles of spray at 5µm, so it can effectively protect you from the COVID19.



In order to produce masks for MB filters, it is important to use the PP material with ultra-fluidity. Lotte Chemical's PP for MB boasts exceptional spinnability with narrow dispersion of molecules and endures discoloration with high stability when exposed to high tem-



peratures and external aggressors in everyday life (NOx gas, etc.).

LOTTE Chemical have successfully mass-produced it since it was first produced in June 2020 and completed five product lines with MI (melting index) adjusted from 250 to 1,800. With them, the requirements of MB filter manufacturers can be actively addressed.

The PP material for MB filters developed by Lotte Chemical has passed the KF94 performance tests by a number of

MB filter manufacturers in Korea and is constantly expanding sales.

Also, it can be used for sanitary items and sound absorbers and is expected to increase sale in Korea and abroad.

**"It is obvious for a material company to develop a mask material to prevent the COVID19 and we will strive to benefit the world through Chemical by developing materials that the mankind and environment need," said Director Kyung Bo Kang of Lotte Chemical Basic Material Lab.**

Source Lotte Chemicals

## Evonik wins Henkel Sustainability Award for second year in a row

**Evonik this week reinforced its position as a sustainable specialties partner for the personal care and cleaning industry by winning the 2020 Henkel Sustainable Award for the second straight year.**

- Evonik's RHEANCE® One platform of green biosurfactants recognized in Beauty Care category



- Award underlines how sustainability is driving growth and innovation at Evonik
- Henkel awarded Evonik also second place for Best Supply Performance and Best Innovation Contribution

Evonik's RHEANCE® One platform of green biosurfactants was recognized in the Beauty Care category for sustainability at the 14th Annual Henkel Awards, which were announced at a gala virtual event during this week's American

Cleaning Industry (ACI) Annual Meeting. Last year, Evonik also won the Henkel Sustainability Award for a

novel conditioner with excellent biodegradability that is sourced from natural, renewable materials.

The improvement of human life is at the centre of Evonik's Nutrition & Care division. As the home of the company's biotechnology portfolio, the devel-

opment of advanced biomaterials that utilize more sustainable manufacturing and sourcing processes is a core driver of innovation and growth. The Care Solutions business line of Evonik continues to demonstrate these sustainability principles with the development of differentiated products such as RHEANCE® One.

Henkel also awarded Evonik second place for Best Supply Performance and Best Innovation Contributor.

"We are honoured to serve as a long-term partner to Henkel and other customers who share our commitment to leverage innovative solutions like RHEANCE® One in order to develop a more sustainable market and better performing products," said Yann d'Hervé, head of Evonik's Care Solutions business line.



**RHEANCE® One is a glycolipid-based platform of green biosurfactants designed for use in rinse off applications that is 100% biodegradable, has excellent foaming and cleansing properties, and is pleasant**

**and mild to the skin. Manufactured with an all-natural, biotechnological process, RHEANCE® One allows customers to create high-performance beauty and personal care products that adhere to the highest**

**standards for sustainability.**

Evonik's portfolio of naturally derived, high-performance green biosurfactants also includes REWOFERM®SL, which is designed for use with household cleaning and other applications.

Source : Evonik

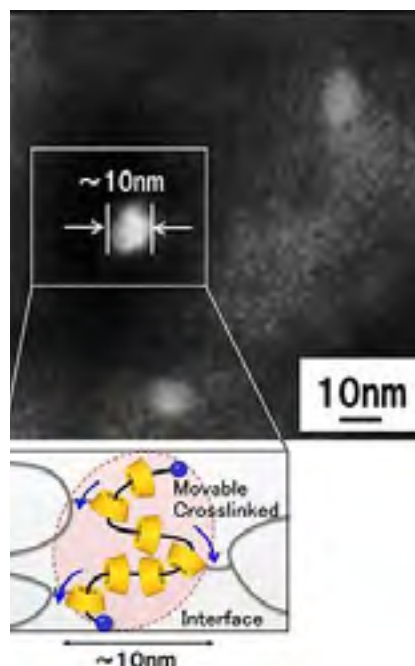
## Toray Leverages Proprietary Nanoalloy® Technology to Create Flexible and Toughened Polymer Offering Diverse Applications

Tokyo, Japan, January 21, 2021 – Toray Industries, Inc., announced today that it has created a new polymer that retains the outstanding thermal resistance, rigidity, and strength of polyamide 6 (PA6) while delivering a bending fatigue limit that is 15-fold that of conventional polymers. Prospective applications for such exceptional durability include automobiles, appliances, and sporting goods. Toray looks to initiate full-fledged sample work in fiscal year 2021 while cultivating applications in diverse industrial materials fields.

PA6 is an engineering plastic whose diverse uses include automobile engine compartments and appliance housings. PA6 resin incorporates a flexible elastomer (see note 1) to resist fatigue and optimize the lifespan. The tradeoff, however, is that this lowers PA6's thermal resistance, rigidity, and strength. The challenge for many years has thus been to develop a new material that offers all of these desirable properties.

Toray focused on polyrotaxane (see note 2), which has a sliding molecular bond, as a polymer whose structure moves in response to external forces. The compa-

ny endeavored to balance the inherent attributes of PA6 and fatigue resistance by finely dispersing polyrotaxane in the resin.



**Polyrotaxane (shown in white) dispersed in PA6**  
**Toray drew on proprietary Nanoalloy® microstructure**

**control technology to maximize the effectiveness of polyrotaxane by dispersing it in the 10 nanometer crystals of PA6. The resulting flexible stress-dispersion mechanism led to the creation of the new polymer. Tests at the SPring-8 synchrotron radiation facility in Japan confirmed that the new polymer suppresses changes in the crystal structure of PA6 when subjected to external forces.**

Toray will fully leverage its core capabilities in synthetic organic chemistry, polymer chemistry, biotechnology, and nanotechnology to materialize its corporate philosophy of contributing to society by creating new value.

Source : Toray



# Artificial Intelligence to Make Chemical Industry Faster and Smarter

- **Data-based technologies for more sustainability and efficiency**
- **Pilot projects in various divisions**
- **Important findings for the entire chemical industry**

Covestro is driving forward the use of artificial intelligence (AI) in the company as well as throughout the entire chemical industry. As part of these efforts, the Leverkusen-based materials manufacturer is conducting several pilot projects across different divisions to investigate how digital technologies can make processes more efficient and sustainable.

“With the help of artificial intelligence, we will be able to find digital solutions across departmental boundaries in the future that were not possible before. This opens up completely new possibilities to achieve greater sustainability with improved resource utilization and thus to serve the needs of our customers even more precisely,” says Sucheta Govil, Chief Commercial Officer of Covestro.

**Pilot projects put the use of AI to the test**

At its Dormagen production site, Covestro is testing how the manufacturing process for polyesters can be optimized. Polyesters are needed for the production of polyurethanes. The use of artificial intelligence in the processing of the company's comprehensive process data is intended to create free production capacities and minimize energy consumption. Digital technologies are also used in Dormagen and at the Leverkusen and Krefeld-Uerdingen sites to predict the peak steam consumption of production plants. In this way, energy consumption and costs can be reduced in the long term.



Another project deals with the digital customer experience. Machine learning is used to help to identify potential customers for Covestro at all digital touch points on the Internet and social media. The aim is to win them over as custom-

ers in the long term through consultation and information. Artificial intelligence will also be used in Covestro's purchasing department in the future. Faulty invoices can then be identified with less effort, making the invoicing acknowledgement process much more efficient.

## Utilizing data science for more intelligent production

“AI is a fascinating opportunity for Covestro worldwide. The ongoing projects show that data and its proper use not only make the entire industry smarter and faster, but can also contribute to the bottom line,” says Nils Janus, Head of Advanced Analytics at Covestro. To make optimum use of data-based findings in the future, the materials manufacturer has developed the Covestro Analytics Platform (CAP), a platform for data scientists. It collects raw data from production plants, research results, and business processes and supplements it with external databases to perform analyses and train machine learning models. In this way, Covestro is taking another important step towards digitalization and data-driven business management.

Source : Covestro

## PARALOID™ Impact Modifiers from Dow Infuse Enhanced Performance into New Callaway Golf Balls

MIDLAND, Mich. – January 27, 2021 – From golf balls to building products and smart devices, consumers demand high-performing plastics at work, home and at play. In response, Dow (NYSE: DOW) has combined its materials science expertise with Callaway Golf Company (NYSE: ELY) to deliver next generation golf balls formulated with a PARALOID™ Impact Modifier

from Dow.

The newly released ERC Soft and Super-soft golf balls from Callaway Golf, an industry leader in golf equipment and innovation, feature a hybrid cover infused with a PARALOID Additive and a proprietary blend of SURLYN™ Ionomers from Dow. This dynamic, multi-material composition of the golf ball shell and

core promotes key player benefits, including long distance, exceptional spin, softer feel and short game control.

“The Dow and Callaway teams bring together unmatched R&D expertise and a profound understanding of the game and those who play it to create the latest innovation in golf ball technology,” said Ian Drake, global technical director,



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

## PRODUCT LIST

1 Amino  
AAKAR DYES AND CHEMICALS Pg 12  
1 Naphthol  
AAKAR DYES AND CHEMICALS Pg 12  
2(4 Ethyl Benzol)  
Mavani Chemicals Pvt. Ltd. Pg 11  
2(4 Methyl Benzoyl)  
Mavani Chemicals Pvt. Ltd. Pg 11  
2, 6. Dihydroxy Naphthlene  
AAKAR DYES AND CHEMICALS Pg 12  
2 Naphthol  
AAKAR DYES AND CHEMICALS Pg 12  
3,6 Disulfonic Acid  
AAKAR DYES AND CHEMICALS Pg 12  
4- Sulfonic Acid  
AAKAR DYES AND CHEMICALS Pg 12  
6BA  
Chemilife Enterprises Pg 13  
6 Nitro  
AAKAR DYES AND CHEMICALS Pg 12

## A

Acetonitrile  
Krishna Solvechem Ltd. Pg 10  
Acetyl H. Acid  
AAKAR DYES AND CHEMICALS Pg 12  
Acid Green-16  
AAKAR DYES AND CHEMICALS Pg 12  
Acid Orange 156  
Mavani Chemicals Pvt. Ltd. Pg 11  
Acid Orange Liquid  
HIREN ENTERPRISES Pg 9  
Acid Yellow 36  
Mavani Chemicals Pvt. Ltd. Pg 11  
Acid Yellow 219  
Mavani Chemicals Pvt. Ltd. Pg 11  
Alizarine Red  
Mavani Chemicals Pvt. Ltd. Pg 11  
Amido G. Acid to Gamma Acid  
AAKAR DYES AND CHEMICALS Pg 12  
Amino ISO J Acid  
AAKAR DYES AND CHEMICALS Pg 12

## B

Basic Auramine Liquid  
HIREN ENTERPRISES Pg 9

Basic Bismark Brown R  
HIREN ENTERPRISES Pg 9  
Basic Bismark Brown Y  
HIREN ENTERPRISES Pg 9  
Basic Brown R Liquid  
HIREN ENTERPRISES Pg 9  
Basic Brown Y Liquid  
HIREN ENTERPRISES Pg 9  
Basic Crysodine R (Powder)  
HIREN ENTERPRISES Pg 9  
Basic Crysodine Y Base (Solvent Orange 3)  
HIREN ENTERPRISES Pg 9  
Basic Crysodine Y (Crystal & Powder)  
HIREN ENTERPRISES Pg 9  
Basic Crysodine Y Liquid Pg 9  
Benzoic Acid  
Mavani Chemicals Pvt. Ltd. Pg 11  
Beta Naphthol to G. Salt  
AAKAR DYES AND CHEMICALS Pg 12  
B.H.K. Acid  
Mavani Chemicals Pvt. Ltd. Pg 11  
BIS AZO  
Mavani Chemicals Pvt. Ltd. Pg 11  
Blue TL  
Mavani Chemicals Pvt. Ltd. Pg 11  
BM Alizarine Red  
Mavani Chemicals Pvt. Ltd. Pg 11  
Bordo 3B  
Mavani Chemicals Pvt. Ltd. Pg 11  
Brassinolids  
Chemilife Enterprises Pg 13  
Bromo Benzene  
Krishna Solvechem Ltd. Pg 10

## D

Dehydro Thio Based  
Mavani Chemicals Pvt. Ltd. Pg 11  
Diethylamine  
Krishna Solvechem Ltd. Pg 10  
Diethylenetriamine  
Krishna Solvechem Ltd. Pg 10  
Diethylhydroxylamine (DEHA)  
Krishna Solvechem Ltd. Pg 10  
Diisopropylamine  
Krishna Solvechem Ltd. Pg 10  
Diisopropylether (DIPE)  
Krishna Solvechem Ltd. Pg 10

Diisopropylethylamine  
Krishna Solvechem Ltd. Pg 10  
Dimethylamine Hcl  
Krishna Solvechem Ltd. Pg 10  
Dimethylaminopropylamine (DMAPA)  
Krishna Solvechem Ltd. Pg 10  
Dimethylformamide  
Krishna Solvechem Ltd. Pg 10  
Dimethyl Sulphoxide  
Krishna Solvechem Ltd. Pg 10  
Di-n-butylamine  
Krishna Solvechem Ltd. Pg 10  
Dipropylene Glycol  
Krishna Solvechem Ltd. Pg 10  
Direct Orange 118 Liquid  
HIREN ENTERPRISES Pg 9  
Direct Red 81 Liquid  
HIREN ENTERPRISES Pg 9  
Direct Violet Base  
Mavani Chemicals Pvt. Ltd. Pg 11  
Direct Yellow - 09  
Mavani Chemicals Pvt. Ltd. Pg 11  
Direct Yellow 11 Liquid  
HIREN ENTERPRISES Pg 9  
Direct Yellow 87 Base  
Mavani Chemicals Pvt. Ltd. Pg 11

## E

Edible Refine Salt  
SKC INDUSTRIES LLP Pg 14

## F

Formic Acid 85% Luxi  
Krishna Solvechem Ltd. Pg 10

## G

Gibberlic Acid  
Chemilife Enterprises Pg 13  
Green - BL  
Mavani Chemicals Pvt. Ltd. Pg 11  
G Salt to Amido G Acid  
AAKAR DYES AND CHEMICALS Pg 12

## H

H Acid  
AAKAR DYES AND CHEMICALS Pg 12  
Heptane  
Krishna Solvechem Ltd. Pg 10





Hexane

Krishna Solvechem Ltd. Pg 10

Basic Brown Y Liquid Pg 9

HIREN ENTERPRISES Pg 9

Basic Brown Y Liquid Pg 9

Hydrogen Peroxide 50%

Krishna Solvechem Ltd. Pg 10

## I

Indole Acetic Acid

Chemilife Enterprises Pg 13

Indole Butyric Acid

Chemilife Enterprises Pg 13

Industrial Salt

SKC INDUSTRIES LLP Pg 14

IsoButyl Chloride

Krishna Solvechem Ltd. Pg 10

Isoprpyl Alcohol (IPA)

Krishna Solvechem Ltd. Pg 10

## J

J Acid

AAKAR DYES AND CHEMICALS Pg 12

## L

Lactose Monohydrate

Krishna Solvechem Ltd. Pg 10

## M

Mamas Acid

Mavani Chemicals Pvt. Ltd. Pg 11

Methoxy Acetyl Chloride

Krishna Solvechem Ltd. Pg 10

MIPA 70%

Krishna Solvechem Ltd. Pg 10

Mnoethylamine 70%

Krishna Solvechem Ltd. Pg 10

MSP

Krishna Solvechem Ltd. Pg 10

## N

Naphthalene 2:7 Disulfonic Acid

AAKAR DYES AND CHEMICALS Pg 12

N-Hexyl Bromide

Krishna Solvechem Ltd. Pg 10

N-Hexyl Chloride

Krishna Solvechem Ltd. Pg 10

Nitazine Yellow

Mavani Chemicals Pvt. Ltd. Pg 11

N-Propyl Bromide

Krishna Solvechem Ltd. Pg 10

## O

Octyl Bromide

Krishna Solvechem Ltd. Pg 10

Octyl Chloride

Krishna Solvechem Ltd. Pg 10

Orange ARL

Mavani Chemicals Pvt. Ltd. Pg 11

Orange Base

Mavani Chemicals Pvt. Ltd. Pg 11

## P

Papas Acid

Mavani Chemicals Pvt. Ltd. Pg 11

Peracetic Acid

Chemilife Enterprises Pg 13

PH

Mavani Chemicals Pvt. Ltd. Pg 11

Phosgenated and Cyanuric Based

Mavani Chemicals Pvt. Ltd. Pg 11

Pivaloyl Chloride

Krishna Solvechem Ltd. Pg 10

PMBS

Krishna Solvechem Ltd. Pg 10

Propylene Glycol Monomethyl Ether Acetate

Krishna Solvechem Ltd. Pg 10

## Q

Quinizarine (1-4 Dihydroxy Anthraquinone

Mavani Chemicals Pvt. Ltd. Pg 11

## R

Raw Salt/Crystal/Coarse Salt

SKC INDUSTRIES LLP Pg 14

Red - 4G

Mavani Chemicals Pvt. Ltd. Pg 11

Red - HI

Mavani Chemicals Pvt. Ltd. Pg 11

## S

Salt Free Dyes

Mavani Chemicals Pvt. Ltd. Pg 11

SAPP

Krishna Solvechem Ltd. Pg 10

Silver Peroxide

Chemilife Enterprises Pg 13

SMBS

Krishna Solvechem Ltd. Pg 10

Sodium Bromide

Krishna Solvechem Ltd. Pg 10

Sodium Chloride

Krishna Solvechem Ltd. Pg 10

Sodium Chloride NACL 99%

SKC INDUSTRIES LLP Pg 14

Sodium Percarbonate

Chemilife Enterprises Pg 13

Sodium Sulphate

SKC INDUSTRIES LLP Pg 14

SS

Krishna Solvechem Ltd. Pg 10

Stain Indicator

Mavani Chemicals Pvt. Ltd. Pg 11

S. Titan Yellow

Mavani Chemicals Pvt. Ltd. Pg 11

STPP

Krishna Solvechem Ltd. Pg 10

Sulphuryl Chloride

Krishna Solvechem Ltd. Pg 10

## T

Tablet Salt

SKC INDUSTRIES LLP Pg 14

Tetraethylene Pentaamine

Krishna Solvechem Ltd. Pg 10

Tetrahydrofuran (THF)

Krishna Solvechem Ltd. Pg 10

Thionyl Chloride

Krishna Solvechem Ltd. Pg 10

Tobias Acid

AAKAR DYES AND CHEMICALS Pg 12

Trethylamine

Krishna Solvechem Ltd. Pg 10

TRIS AZO

Mavani Chemicals Pvt. Ltd. Pg 11

TSP

Krishna Solvechem Ltd. Pg 10

TSPP

Krishna Solvechem Ltd. Pg 10

## V

Valeryl Chloride

Krishna Solvechem Ltd. Pg 10

Violet 4B

Mavani Chemicals Pvt. Ltd. Pg 11

## Y

Yellow ARL

Mavani Chemicals Pvt. Ltd. Pg 11

Yellow GL

Mavani Chemicals Pvt. Ltd. Pg 11

Yellow RL Base

Mavani Chemicals Pvt. Ltd. Pg 11



Dow Plastics Additives. “New and bold collaborations such as this are key to advancing science, as well as the adoption of innovative technologies that can better the world of sports and beyond.”

**“This new Hybrid Cover with a PARALOID Impact Modifier from Dow creates a high-performance, multi-material golf ball construction,” said Callaway Global Golf Ball Director, Jason Finley. “In our ERC Soft and Supersoft Golf Balls, this innovative cover promotes high launch and low spin characteristics**

**for long distance, great feel, durability and outstanding control to help benefit a wide range of players. And thanks to PARALOID, we are able to deliver all of this with exceptional ball speed and spin performance.”**

Dow’s portfolio of PARALOID Additives enables the formulation of specialty high-performance compounds and composites and offers excellent compatibility with other resins when mixed by various melt processing techniques. In addition to durable goods such as sporting equipment, PARALOID Additives strengthen and toughen a broad range of thermoset and thermoplastic

polymer systems for building products, automotive, and electronics applications with properties that are critical to withstand the most challenging conditions. “The new offerings from Callaway exemplify the strength and versatility provided by PARALOID Impact Modifiers,” said Khalid Ali, global marketing director, Dow Plastics Additives. “We are also excited to see our PARALOID brand featured so prominently by Callaway in the new golf ball packaging; it’s a true testament to the value Dow’s unique technologies bring to the market.”

The Supersoft golf balls will be available at retail on February 4th. The ERC Soft golf balls will be available at retail on February 25th.

Source : Dow

## LANXESS Pigments Transform Sculpture into a Colorful Star

- Colorful artificial stone blocks and translucent concrete form a star-shaped sculpture offering space for people to sit, relax and interact
- New use for former barrack complex in Bavaria
- Urban Star symbolizes solidarity with the USA

A new star has “risen” over a former barrack complex in the northwest of Augsburg in Bavaria. The Urban Star is a large, star-shaped sculpture made from colorful, illuminated concrete blocks that offers space for people to sit, relax and interact. Most of the cubes are made from concrete through-colored with inorganic pigments manufactured by the specialty chemicals company LANXESS. Twenty-four of the cubes are made from translucent concrete, inside which colored LED lights are embed-

ded. During daylight hours, the sculpture’s appearance is characterized by the colored cubes, with the translucent concrete then becoming increasingly prominent as twilight approaches.

**“The structure is built to**



**last, and the desired color effect is designed to be enjoyed for many years**

**to come. This is why we decided to use iron oxide pigments, which are known to remain color-stable over decades and can withstand whatever the weather throws at them,” says Oliver Fleschentraeger, Market Segment Manager Construction in the Inorganic Pigments (IPG) business unit at LANXESS.**

Urban district planning: Kobelcenter-Süd

The Augsburg urban development society acquired the former barrack complex, which was used by the US armed forces up until 1994, as public trustee for



the city of Augsburg and has been gradually turning the land over to civilian use. The development project aims to create a mix of commercial and residential properties with plenty of green space and good links to neighboring construction areas. The urban development area Kobelcenter-Süd on the former barrack complex is one such quarter that will see a mix of commercial and residential properties. In addition, green spaces are home to the kinds of flora usually found on the North American prairie, helping to lend this new quarter its own identity. The “stars” and plants recall the many years during which the site was used by the Americans and the cultural mark they made. They encompass elements of American landscapes and legends, representing a contrast with the site’s use as a functional residential and commercial area. Various usages are envisioned. The “Urban Star” is a place for meeting people and relaxing, linking the barrack complex with the urban space; the “Desert Star” is a multi-generational recreation area; the “Dark Star” a habitat for jackdaws. More stars will be added in future construction phases, each with their own specific purpose and character.

### Vivid colors by day and night

The publicly accessible “Urban Star” is located at the center of a district plaza that covers around 800 square meters. The block-like structure of its cubes and the color scheme of the concrete sur-

faces are reminiscent of the downtown urban landscapes typically found in the west of the USA.

The colored concrete cubes are pigmented with weather-resistant, colorfast, inorganic pigments from LANXESS tried-and-tested Bayferrox brand, with black, red and yellow being the dominant colors; a cobalt-blue pigment developed by Recklinghausen-based Harold Scholz & Co. GmbH is also used. The black, translucent-concrete cubes manufactured by Aachen-based LUCEM GmbH and also pigmented with Bayferrox pigments consist of translucent-concrete panels measuring around two centimeters in thickness.

The blocks measure 84 x 84 cm and, in keeping with the sloping topography of the plaza, rise between 14 and 60 cm above the ground. The concrete cubes are designed with a flat, pyramid-shaped pitch on their surface, which prevents water from accumulating and minimizes the risk of ice forming in the winter. In combination with the concrete cubes, the light-gray, artificial-stone paving used on the plaza helps to create a harmonious overall aesthetic.

The “Urban Star” is secured to the ground by means of a 25-centimeter-thick, reinforced-concrete baseplate, which projects by around 10 centimeters and follows the outline of the star. The baseplate lies on a foundation bed that was compressed layer by layer. A

solid, step-like substructure for the colored concrete cubes and made from standard concrete was mounted on the reinforced-concrete plate. The surface of the concrete has been specially waterproofed. The concrete and translucent-concrete cubes are mounted onto the substructure with drainage mortar and, at the edges, directly onto the baseplate. Drainage mortar in combination with step drainage ensure that any water beneath the concrete cubes is properly drained away.

### Inorganic pigments for long-lasting structures

LANXESS is the world’s largest manufacturer of synthetic iron oxide pigments and one of the leading producers of chromium oxide inorganic pigments. The Inorganic Pigments business unit has extensive expertise in the production and handling of pigments and processing in concrete manufacturing. “The technical service offering comprises extensive analyses regarding the colorimetric and physical pigment characteristics as well as their influence on concrete-related and rheological characteristics in customer-specific applications, which can be simulated under laboratory conditions,” says Fleschen-traeger. “This is why we collaborate closely with raw material producers, plant manufacturers, architects and universities.”

Source : Lanxess

## Solvay Launches Eugenol Synth for Fragrance Applications

Lyon, France, January 28, 2020 Solvay introduces Eugenol Synth, an innovation for fragrance applications with olfactory properties comparable to that derived from cloves. The new high purity synthetic eugenol will provide a reliable alternative to help meet Flavors & Fragrance (F&F) market demand for

applications for which natural origin is not essential.

Solvay has developed a robust and competitive process to produce synthetic eugenol to offset the quality, supply, and price fluctuations occurring in the sourcing of natural eugenol extracted

from cloves.

**“Solvay strategically extends its aroma chemicals portfolio pushing the boundaries with a commit-**



## EVENTS AND CONFERENCES

### MIDDLE EAST SPECIALTY CHEMICALS SHOW

**Date:** June 15, 2021

**City:** DWTC, Dubai, UAE, Dubai

**Country:** United Arab Emirates

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

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

### CPHI JAPAN

**Date:** April 14-16 2021

**City:** Tokyo

**Country:** Japan

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

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

### CHEMSPEC EUROPE

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

**City:** Messe Frankfurt, Germany.

**Country:** Germany

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

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

### CHEMUK 2021 EXPO

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

**City:** NEC, Birmingham, UK

**Country:** UK

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

**Description:** CHEMUK is the UK's only trade show dedicated to bringing together the multi-layer Chemicals/Chemical Prod-





## EVENTS AND CONFERENCES

uct development, specification & processing/manufacturing communities, with crucial supply chain supplier groups. With some 2,500+ specialist businesses contributing to the UK's chemical industry – embracing raw materials, chemicals, intermediates & consumables, equipment & apparatus, high tech innovation streams, sub-contracting & business services and much more, CHEMUK is the event where the UK's chemical industries meet.

### INTERDYE & TEXTILE PRINTING EURASIA

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

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

**Country:** Istanbul

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

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

### COATINGS FOR AFRICA 2021

**Date:** June 2-4, 2021

**City:** Sandton Convention Centre

**Country:** Johannesburg, South Africa

**Website:** <https://www.tradeindia.com > tradeshow > coatings-for-af..>

**Description:** Coatings For Africa 2021 is South Africa's dedicated event and trade show, connecting the entire paint and coatings value chain, from raw material suppliers to end users of the finished product. Coatings For Africa 2021 is the ideal place to discover the latest trends affecting the region's environmental, manufacturing and industrial needs and provides a fantastic networking opportunity for the coatings industry. Exhibitor product profile are based on additives, biocides, chemicals, extenders and fillers, oils, pigments, polymers, resins, solvents, waxes, accelerated weathering, gloss and color measurement and control, corrosion testing, instrumentation, testing labs services offering physical testing, dispersers, drums, filters, mixers, process control, pumps, labeling, filling and packaging, tinting systems, color forecasting, color cards, health and safety and fire protection.

### PAINT INDIA 2021

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

**City:** Bombay Exhibition Centre, Mumbai

**Country:** India

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

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

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



**ment to innovate and anticipate F&F market expectations,” said Corinne Duffy, Technical Marketing Manager & Eugenol Project Manager at Solvay Aroma Performance.”**  
**Thanks to our back integration in guaiacol, a key intermediate in our**



**diphenol chain, our R&I teams have been able to**  
**develop an innovative process successfully scaled up to produce synthetic eugenol.”**

Eugenol derived from cloves is an aromatic flower spice used widely across flavor (food and beverage) and fragrance applications. Because of its analgesic and antiseptic properties, it is also used in oral care formulations such as toothpastes and mouthwashes. In addition, it can be used in technical applications such as an intermediate for polymers.

Solvay’s new Eugenol Synth is produced at the company’s Saint-Fons, Lyon site in France and is commercially available globally.

Source : Solvay

## A Vibrant Start To The New Year Clariant Expands Pigments Laboratory For The African Market

- Clariant inaugurates lab in South Africa to service whole continent and the Middle East
- Significant investment supports growing regional demand for locally produced, sustainable colorants
- Laboratory highlights Clariant’s position as an industry innovation and technology leader

**M**uttenz, February 3, 2021 – Clariant Pigments has welcomed the new year with the expansion of its new state-of-the-art pigments’ laboratory in Krugersdorp near Johannesburg, an African showcase for sustainable color technology.

To be officially opened and inaugurated in early 2021, the new facility will service the emerging Middle East and Africa paints and coatings market, forecasted a Compound Annual Growth Rate (CAGR) of more than 3% (2020-2025) [1].

In a significant commitment to its business in South Africa, Clariant’s investment in the laboratory, which has taken more than 12-months to complete, will increase local value-added color support services to the coatings industry

across Africa, Turkey and the Middle East. The new facility also offers increased local employment opportunities and in-house skills development training in color technologies. “Previously, we were only able to supply pigments as raw materials, but we are proud to now be offering a full spectrum of value-added services including customized color



solutions, color matching services or the development of own color recipes to create an unlimited number of shades, for example tinting systems. To complete our services we also offer technical marketing and after sales support,” said Rossitza Dimitrova, Clariant Business Unit Pigments Head of Technical Marketing, Middle East and Africa.

Well known for being one of the market leaders in sustainability, all product

offerings, for both decorative and industrial markets, as well as innovative solutions for wood coatings, will include pigments and pigment preparations that are lead free, contain low VOC (Volatile Organic Compounds) and are free of APEO (Alkylphenol ethoxylates).

These include the following ranges:

- Hostatint™ 500 and Colanyl® 500, binder-free pigment preparations for decorative coatings
- Hostatint A 100, a range of solvent based pigment preparations with high pigment loading and good rheological properties for industrial coatings
- Hostafine®, aqueous binder-free pigment preparation range for water based wood coatings for wood stains and glazes, e.g. for furniture or flooring

Hostatint A 100-ST, highly-transparent pigment preparations for solvent based paint systems for industrial coatings to add a quality appeal to wood, glass, coil and metallic effect coatings, e.g. computers, consumer goods, motorbikes



**“In South Africa there is a growing demand for both locally produced and sustainable colorants and at Clariant Pigments we can**

**now better serve the local and regional coatings industry with innovative and sustainable ranges of colorant solutions,” said Piers Kure,**

**Clariant Business Unit Pigments Head of Sales, Sub Sahara, Africa.**

Source : Chemical Market

## Archroma And Cleankore Join Forces To Promote Sustainable Cost-Effective Indigo Dyeing Process

**R**einach, Switzerland, and Westlake, 2 February 2021 - Archroma, a global leader in specialty chemicals towards sustainable solutions, today announced a strategic partnership with technology innovator CleanKore, aiming to advance sustainable dyeing processes throughout the denim supply chain.

The agreement will allow Archroma and CleanKore to promote the benefits of each other's technologies.

This includes Archroma's robust catalog of dyes and specialty chemicals along with CleanKore's patented process of dyeing yarns at the denim mill that completely eliminates the need for potassium permanganate (PP) spray and laser booster to achieve the bright white abrasion effect in the garment finishing process.

The result is a large and circular bright white core with a small ring of indigo dye. The technology does not just eliminate the chemicals associated in the PP spray and laser process, which is much safer for denim workers, it also allows to save significant amounts of water and energy throughout the manufacturing process from fabric to garmenting.

CleanKore initially looked at eliminating potassium permanganate due to its being classified as hazardous if inhaled or ingested, or in case of contact with the skin or the eye. It is also considered very toxic to aquatic life.

No new equipment or capital expenses are needed to implement the CleanKore technology, which works on all denim fabric, including dark indigo, sulfur top/bottom and sulfur black.

This is where Archroma comes into the picture. Its global technical team of denim coloration specialists will provide support to denim mills seeking to implement the CleanKore technology and develop the desired looks and effects - with the right colors and chemical systems for their production set-up.

CleanKore estimates that the technology allows to save up to 15 liters of water per garment, or the equivalent to the drinking needs of 5 people per day, and up to 0.51 kWh of energy per garment, or the equivalent of five 100-watt light bulbs on for 1 hour. The CleanKore technology also leads to a 10% to 20% increase in production throughput, as a result of a faster garment wash-down and the elimination of PP spray.

**For CleanKore CEO Darryl Costin Jr., the announcement comes at an ideal time for CleanKore: "We have successfully proven the technology with mill partners such as Arvind and other denim mills in Pakistan, Bangladesh, Chi-**

**na, Vietnam, Thailand and the United States. The response from the industry has been overwhelmingly positive. Having a partner in Archroma, one that is highly respected for their innovation and emphasis on sustainability throughout the industry, will allow us to take CleanKore to the next level."**

Umberto Devita, Global Indigo Manager at the Archroma Global Competence Center for Denim & Casualwear, adds: "CleanKore is perfectly aligned with the 3 pillars of 'The Archroma Way to a Sustainable World: Safe, efficient, enhanced'. 'Safe' through the elimination of a potentially harmful substance and the protection of the denim workers, 'Efficient' through the reduction of resource consumption, improved productivity and cost-effective profile. And 'Enhanced' through the gorgeous colors and effects allowed with Archroma's innovations and systems, in particular our aniline-free\* Denisol® Pure Indigo and Diresul® sulfur dyes. We look forward to help promoting an innovation that will help with many of the challenges facing our denim customers throughout the world. Because it's our nature."

Source : Chemical Market



# DKSH Extends Distribution Partnership With Ddchem To The USA

**D**KSH has been appointed as distribution partner for ddchem, the leading Italy-based producer of hardeners for epoxy systems and hot melt polyamides. DKSH will provide ddchem's products in the USA.

New Jersey, February 2, 2020 – DKSH's Business Unit Performance Materials has become a key distribution partner for ddchem in the USA. DKSH will provide marketing and sales, inventory, business development as well as distribution and logistics for ddchem.

**The range of ddchem's product portfolio includes hardeners and curing agents for epoxy systems and non-reactive polyamide resins for printing inks and adhesives. The products can be used in a wide range of applications, including protective coatings, inks, adhesives and construction**

**(flooring). They are particularly appealing to companies producing solutions for epoxy resins, flexo inks and hot melt adhesives.**

DKSH first partnered with ddchem in China, the Philippines and Thailand in 2017. Building on a successful foundation, ddchem chose DKSH as its ex-



clusive distribution partner in Spain, Portugal and APAC in April, 2020 and, again, in 2021 for the Nordics and Baltics region. DKSH supports ddchem's expansion to the USA through its specialized and experienced marketing and sales force, extensive knowledge of

the market segments in the region and through technical capabilities based on its global network of innovation centers. Dino Sprea, Owner, ddchem, commented: "We are very proud to have signed this agreement with such an important multinational distribution company in the global market. We have already been collaborating with DKSH for some years and are convinced that they are the right partner to bring our Italian excellence to the world."

Ramon J. Viñas, Vice President Global Specialty Chemicals Industry, DKSH, added: "We are delighted to further strengthen our partnership with ddchem and expand their footprint to the USA. The high-quality specialty chemicals of ddchem complement our existing portfolio of epoxy systems for coatings and construction and provide unique chemistry for inks and adhesives applications for our large manufacturing customer base. We look forward to continuing our successful partnership with ddchem."

Source : Chemical Market

## Eastman Starts Up New DMAE Unit in China

**N**ANJING, China, Feb. 3, 2021 – Eastman is pleased to announce the recent startup of its new dimethylaminoethanol (DMAE) unit at its Nanjing site. The addition will significantly increase the company's DMAE capacity, support additional sales in Asia, and further strengthen Eastman's global leadership in alkyl alkanolamines like DMAE, which is used primarily as an intermediate in water treatment.

Led by Site Manager Lisa Xiao Yan Chen, the project began several years ago and overcame several unexpected

obstacles, including COVID-19. "Even with a global pandemic, the construction had a perfect safety record," said Sabine Ketsman, vice president and general manager of Eastman's care chemicals and animal nutrition. "I'm very proud of our entire team." Ketsman stressed that water treatment is vital in addressing increased water scarcity across the world.

"The need for clean water truly affects people's daily lives and personal well-being," she said. "This is a great example of how our products and chemistries contribute to enhancing the quality

of life in a sustainable way." Eastman, the world's largest producer of DMAE and other alkyl alkanolamines, has similar units in Belgium and the United States. Its Nanjing site makes methylamines and dimethylacetamide and has an existing alkanolamines unit that produces DMAE, MDEA, MMEA and MDIPA. Additional growth projects are planned. "Asia is a very important growth region," Ketsman said. "Nanjing will be a critical hub for us to meet the future needs of our customers in China and the entire region."

Source : Eastman





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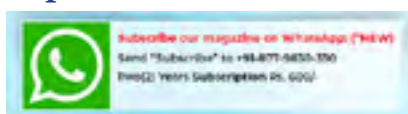


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