

# DYES & CHEMICAL MARKET

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DYES CHEMICALS PHARMACEUTICALS API TEXTILE AUXILIARIES PAINTS SOLVENTS COSMETICS

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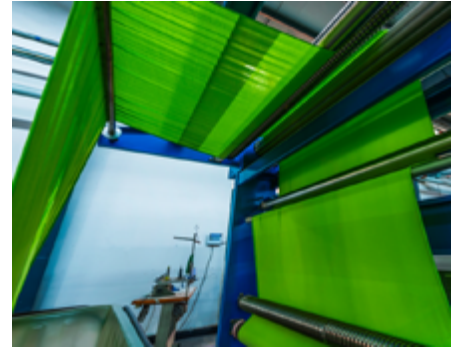
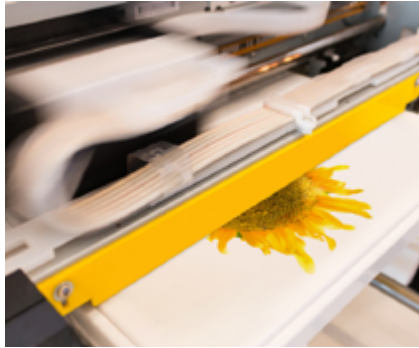
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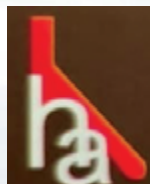
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- Brassinolids** ❑
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- Laboratory Chemicals - Organic & Inorganic salts - solvents, LR, AR, HPLC, GC Grades
- Laboratory Glasswares
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- Industrial safety products - Gloves, Wipers, Ear Plugs,

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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. <b>Jitendra Bhalgat</b> Ahmednagar, Maharashtra, India Email : <a href="mailto:jbhalgat11@gmail.com">jbhalgat11@gmail.com</a> Mobile : 9422220871		

Product Name	Qty	Grade
Sodium Hypochlorite	500 Kgs	Industrial
Details : We need this product on a regular basis (Monthly) Please contact us if you are a manufacturer or a distributor. (Required in and around Calicut Kerala) <b>Rajshree Varshney</b> Mumbai, Mh Mobile: + 917520945076 Email : <a href="mailto:rajshree.varshney@gmail.com">rajshree.varshney@gmail.com</a>		

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

Product Name	Qty	Grade
Modified Starch	1 Tonnes	Technical
Details : for our won purpose <b>Purushotham M</b> Salem, Tamil Nadu, India Mobile: +919443326055 Email : <a href="mailto:sreestarch@gmail.com">sreestarch@gmail.com</a>		

Product Name	Qty	Grade
Trifluoromethyl benzene (CAS 98-08-8)	300 Kgs	Industrial
Details : for our won purpose <b>Chetan Lakhpati</b> Thane, Maharashtra, India Mobile: 9920337763 Email : <a href="mailto:clakhpati@gmail.com">clakhpati@gmail.com</a>		



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Product Name	Qty	Grade
QUARTASEPT (CMD 14-005)	500 Kgs	Chemical
Details : An Aviation/Airline Disinfection product that complies with the widely used industry specifications AMS1452 or AMS1453 (Such as substances containing 62% -71% ethanol alcohol, 0.5% hydrogen peroxide, or 0.1% sodium hypochlorite). <b>Kishor at Moglix</b> Noida Mobile: 96503-64721 Email : <a href="mailto:Kishor.tarafdar@moglix.com">Kishor.tarafdar@moglix.com</a>		

Product Name	Qty	Grade
DIRECT BLUE-71	200Kgs	Industrial
Can blue 71 pass EN71 certification? How much does it cost? Email : <a href="mailto:steven@chifra.com.tw">steven@chifra.com.tw</a> Mobile : +88-691-352-0913		

Product Name	Qty	Grade
Fast Red KD Base (HS Code - 29225014)	2 t every month	
Napthol AS-LC ( HS Code - 32041929)		
Napthol ASIRG ( HS Code - 29242990)	500 kg every month	
Dimethylsuccinyllo Succinate (DMSS) - HS Code 29181990		
Napthol AS - HS Code 29242990		
Napthol AS-PH - HS Code - 32041921		
1,2-Bis(2-aminophenoxy) ethane - HS Code 29222990		
2,4,6 Trichloro Aniline	100 Kgs	Chemical
Details : <b>Pravin Iyer</b> AT Pigments (Manufacturer) Email : <a href="mailto:pravin.iyer@atpigments.com">pravin.iyer@atpigments.com</a> Mobile : 9898507767		

Product Name	Qty	Grade
Sulphur Granules	30 Tonnes	Industrial
Details : <b>DERRICK MWANSA</b> Chingola Central, Chingola, Zambia Mobile: +26-097-759-2183 Email : <a href="mailto:derrick.mwanasa@rgpm-group.com">derrick.mwanasa@rgpm-group.com</a>		



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Product Name	Qty	Grade
Nigrosine Black Dyes	1 Can	Industrial
Details : <b>Gary Brent</b> Auckland, New Zealand Email : <a href="mailto:gary.brent@washtech.co.nz">gary.brent@washtech.co.nz</a> Mobile : +64-2195-5732		

Product Name	Qty	Grade
n Butyllithium 23%	5 T	Chemical
Details : <b>Sook Young Yoon</b> Gyeonggi-do, South Korea Email: <a href="mailto:syyun@jtcs.co.kr">syyun@jtcs.co.kr</a> Mobile: +82-318-016-8258		

Product Name	Qty	Grade
Potassium iodide-IP-BP-USP	1KG	Virgin Pure
Deepak Kala Hyderabad, Telangana, India Email : <a href="mailto:deepak.kala@vbshilpa.com">deepak.kala@vbshilpa.com</a> Mobile : +91-706-055-5929		

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

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

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

Product Name	Qty	Grade
Triethylsilane 98%	500 gms	Industrial
Details : <b>Honest Traders (India)</b> Email : <a href="mailto:honestchem3@gmail.com">honestchem3@gmail.com</a> Mobile : +91-635-177-0203		

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

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

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

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



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

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

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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> <b>Email : <a href="mailto:prakash@pcf.co.in">prakash@pcf.co.in</a></b> <b>Mobile : 918850655380</b>		

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

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

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> <b>Email: <a href="mailto:bharatd18@gmail.com">bharatd18@gmail.com</a></b>		

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

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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> <b>Chemox Chemopharma Industries (Manufacturer)</b> 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> <b>Shri Hariram Export Pvt. Ltd. (Manufacturer)</b> 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		



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# EDITORIAL

# CHEMICAL MARKET

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

## Almost done with the year!

The October issue was a great success after we engaged several advertisers to sign up for our Leads Platform and publish a quarter page ad which will give them more exposure in the chemical industry. The Leads Platform still is in its infancy and several people claimed that digital marketing is the future even in the chemical industry. We are in the works of developing a Chemical Market app and plan to launch the first version by the end of the year. If there are any ideas and suggestions from your end, please let us know. We will also conduct a brief survey about features we want in the app so that 1000s of traders, distributors and manufacturers in the chemical industry benefit from it.

We had several news this month some of which are listed below.

Airnov celebrates five years of manufacturing in India and announces participation at CPHI India 2022 [...Full story](#)

Hohenstein India Inauguration of new leather and footwear laboratory. [... Full story](#)

Vipul Organics announces Q2 results for FY 2022-2023 [...Full story](#)

INEOS BICHLOR™ electrolyzers selected by Chemfab Alkalies Karaikal Limited CAKL for major chlor-alkali plant investment in India [...Full story](#)

Well these are just a few highlights on what's happening in the chemical industry. The industry is huge and we want your active participation in making something big and new which can change the lives of the people. So keep building, keep innovating and we keep providing you updates on the chemical industry.

This year there are several exhibitions which are happening and most of them have done well so far. We have cphi, chem-log, interdye and several other within the next couple months. Please refer to our events calendar. Also, we are working on Twitter to build a Twitter Community called the "World Chemical Industry" which will be an amazing tool to collaborate. More details up and when we are ready to use the Twitter platform as more fluent we get with the Twitter Community feature of Twitter. This is just the beginning.

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We have extended our offer for free 6 months ¼ page ad for members who can subscribe the magazine for next 3 years. This way we can keep connecting new members in the chemical industry. Advertisers can upgrade to a ½ page or full page ad content and get the exposure they seek from fellow potential business customers.

The next month, we hope to bring your more features of our leads platform and hope you be a part of it and share your experiences on how we can improve upon the system to make things

easier for the community in general to share, collaborate, auction, recruit and search jobs in the chemical industry. We are also open to brokers providing us chemical products prices on a regular basis and we automate the system so that members can get pricing insights through charts and graphs. Lots of things are in pipeline and we hope you will be a part of the system to make it successful.

-Rajiv Parikh



# The Worldwide Nano Silica Industry is Projected to Reach \$8.6 Billion by 2031

**D**UBLIN, Nov. 11, 2022 /PRNews-wire/ -- The "Nano Silica Market By Product, By Application: Global Opportunity Analysis and Industry Forecast, 2021-2031" report has been added to ResearchAndMarkets.com's offering.

The global nano silica market was valued at \$4.6 billion in 2021, and is projected to reach \$8.6 billion by 2031, growing at a CAGR of 6.5% from 2022 to 2031.

Nano silica is a white fluffy powder composed of high purity amorphous silica powder. Because of its small particle size, nano-SiO<sub>2</sub> had the advantages of large specific surface area, strong surface adsorption, large surface energy, high chemical purity and good dispersion.

Rising demand from the rubber industry in light of the growing automotive industry is expected to be a key factor propelling market growth. In addition, growing use of nano silica as an additive in various application segments such as concrete and rubber, and growing demand for coatings due to growth in coatings applications in the construction industry is expected to propel the growth of the market in coming years.

Nano silica is being highly publicized as a promising cementitious admixture in concrete apart from paints, coatings, and rubber additives. Nano silica has the potential to leverage the mechanical and durability attributes of concrete. The ever-evolving construction industry is another key driver, which is fueling the growth of the nano silica market. As such, the construction industry is creating a demand for supplementary cementitious materials (SCMs)-like nano silica to enhance the properties of concrete.

Nano silica is gaining increased popularity for cementitious admixtures in concrete to deploy improved load-carrying capacity. Since nano silica is extremely fine, it helps to strengthen the microstructure of the cementitious matrix as a result of its pozzolanic activity. Thus, companies in the nano silica market are increasing the availability of silica nanoparticles in the construction industry where workers combine the novel element with other SCMs such as fly ash, micro silica, and risk husk ash among others. These factors are expected to drive the growth of the market during the forecast period. However, toxicity of silica fumes is expected to

hamper the growth of the nano silica market during the forecast period. Furthermore, growing usage of nano silica in RNA/DNA delivery systems in innovation of vaccines is expected to provide growth opportunities for the nano silica market during the forecast period.

The global nano silica market size is segmented on the basis of product, application, and region. By product, it is analyzed across P-type, S-type, and Type III. By application, it is segmented into concrete, rubber, electronics, health-care, coatings, agriculture, plastics, and others. Region-wise, it is studied across North America, Europe, Asia-Pacific, and LAMEA. The major key players operating in the global nano silica market include Evonik Industries, Akzo-nobel N.V., E. I. DU Pont De Nemours and Company, Cabot Corporation, Nanopore Incorporated, Normet, Fuso Chemical Co. Ltd., Wacker Chemie AG, Dow Corning Corporation, and Bee Chems.

Read the full report : <https://www.researchandmarkets.com/r/a86tyl>

If you want your report abstract to be published please contact [info@chemicalmarket.net](mailto:info@chemicalmarket.net)

# Chemicals As A Service Global Market to Reach \$11.49 Billion by 2026 at a CAGR of 9.8%

**D**UBLIN, Oct. 28, 2022 /PRNews-wire/ -- The "Chemical As A Service Global Market Report 2022" report has been added to ResearchAndMarkets.com's offering.

The global chemical as a service market is expected to grow from \$6.99 billion in 2021 to \$7.90 billion in 2022 at a compound annual growth rate (CAGR) of 12.9%. The chemical as a service market is ex-

pected to grow to \$11.49 billion in 2026 at a compound annual growth rate (CAGR) of 9.8%.

The main types of chemical as a service are chemical management



services, and chemical leasing. Chemical management services refer to a business model in which a consumer buys chemical services instead of chemicals. CMS assists manufacturers in prioritising chemical management tasks so that they can be completed more efficiently. The end-users of chemicals as a service include agriculture and fertilizer, water treatment and purification, metal parts cleaning, paint and coatings, industrial cleaning, industrial gases, and other end-users.

North America was the largest region in the chemical as a service market in 2021. Asia Pacific is expected to be the fastest-growing region in the forecast period. The regions covered in the chemical as a service market report are Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East and Africa.

A reduction in chemical consumption is contributing to the growth of the chemicals as a service market. A chemical is consumed when it is converted into another chemical

through a chemical process. Lack of collaboration between chemical suppliers and consumers leads to unnecessarily high chemical consumption and the development of hazardous waste.

Chemical leasing, which is part of the chemicals as a service paradigm, attempts to increase chemical efficiency while lowering chemical hazards and safeguarding human health. For instance, in May 2019, according to The Sustainable Development Goals Policy Briefs by UN, it reported that after the introduction of Chemical Leasing for bottle washing and conveyor lubrication, chemical consumption was reduced by 40 and 48%, respectively, and the water and energy demand decreased significantly by a Ugandan beverage company Crown Beverages Limited (CBL). A reduction in chemical consumption is expected to propel the growth of the chemicals as a service market.

Strategic partnerships are a key trend gaining popularity in the chemical as a service market. Major companies operating in chemicals

as a service are undergoing partnerships to strengthen their position in the market. For instance, in May 2022, Sphera, Chicago-based a leading global provider of Environmental, Social, and Governance (ESG) performance and risk management software, data, and consulting services, partnered with BASF Germany-based chemical company.

The collaboration makes BASF's methodology and digital solution for automated product carbon footprint (PCF) calculation available in Sphera's Life Cycle Assessment (LCA) software solutions. LCAs assist businesses in better analyzing the effects of their supply chain on their overall carbon footprint and making informed decisions on their path to net zero.

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

If you want your report abstract to be published please contact [info@chemicalmarket.net](mailto:info@chemicalmarket.net)

## Carbon Black Market Size to Grow USD 16080 Million by 2028 with a CAGR of 4.6% | Valuates Reports

**B**ANGALORE, India, Nov. 11, 2022 /PRNewswire/ -- Carbon Black Market is Segmented by Type (Thermal Black, Furnace Black), by Application (Tire Rubber, Other Rubber products, Non-Tire Rubber, Ink and Coating, Plastic): Opportunity Analysis and Industry Forecast, 2022–2028. It is published in Valuates Reports under the Chemicals Industry Category.

The global Carbon Black market size is estimated to be worth USD 16080 Mil-

lion in 2021 and is forecast to be a re-adjusted size of USD 16080 Million by 2028 with a CAGR of 4.6% during the review period.

Major factors driving the growth of the Carbon Black Industry:

Increased demand from the tire rubber, non-tire rubber, ink and coating, and plastic industries is what is driving the expansion of the carbon black market. Carbon black is nearly typically utilized as a filler in rubber compounds to rein-

force and improve their physical qualities. Additionally, it supports rubber's volume and vulcanization. This factor is expected to drive the growth of the Carbon Black market

Read the full report : [https://reports.valuates.com/request/sample/QYRE-Auto-39P10873/Global\\_Carbon\\_Black](https://reports.valuates.com/request/sample/QYRE-Auto-39P10873/Global_Carbon_Black)

If you want your report abstract to be published please contact [info@chemicalmarket.net](mailto:info@chemicalmarket.net)



# Air Products to Highlight Its Latest Innovations in Oxy-Fuel Combustion Technology at the 83rd Conference on Glass Problems

Lehigh Valley, Pa., Oct. 27, 2022 / PRNewswire/ -- Air Products (NYSE: APD) will highlight the company's integrated systems for high efficiency sustainable glass melting, including the latest innovations in its Cleanfire® HRx™ technology platform, at the 83rd Conference on Glass Problems in Columbus, Ohio, from October 31 to November 3.

Air Products' proprietary Cleanfire HRx burner technology enables glass manufacturers to achieve higher fuel efficiency, lower nitrogen oxides (NOx) emissions and reduced foam for higher-quality glass production, and is now equipped to handle hydrogen-blended fuels for a lower carbon footprint. The line of industry-leading combustion technology currently includes a system with economical integrated oxygen supply for full oxy-fuel melting, and a novel Synchronized Boost system for side port air-fired furnaces. Like many of the company's next-generation technologies, the HRx burner platform employs Air Products SMART Technology to monitor and control key process parameters. This remote monitoring technology helps enable glass manufacturers to optimize and maintain burner performance and improve their overall operation.

Air Products will host a combined exhibit/hospitality event from 5 p.m. to 11 p.m. ET on Monday, Oct. 31 and from 7:30 p.m. to 11 p.m. ET on Tuesday, Nov. 1 in the Bellows F suite of the Columbus Hilton Downtown, where industry specialists will be available to discuss the challenges glass manufacturers face in their daily operations. For each visitor to its suite, the Air Products Foundation will donate \$100 (up to a total of \$15,000) to the Ceramic & Glass Industry Foundation to help foster innovation by the next generation of ceramic and glass professionals.

In addition, Michael J. Gallagher, Ph.D., Air Products' Lead Engineer, Combustion Glass Applications, and Roger A. Dewing, Air Products' Executive Director of Technology, will host a technical presentation titled, "Blue and green hydrogen production, distribution, and supply for the glass industry and the potential impact of hydrogen fuel blending in glass furnaces," at 3 p.m. ET on Wednesday, November 2.

**Air Products has been supplying oxy-fuel technology to the glass industry since the mid-1970s. The com-**

**pany's integrated solutions help glass manufacturers increase glass production, reduce fuel consumption, improve glass quality and reduce emissions. Air Products also operates a state-of-the-art Advanced Clean Energy Laboratory that facilitates the development and full-scale testing of actual combustion systems using a full spectrum of gaseous, liquid, and solid fuels from customers. Located in Allentown, Pa., the Clean Energy Laboratory enables remote monitoring of real-time combustion tests from locations around the world.**

Source : PRNewswire

# Solvay Completes US Registration Process for Actizone® F5

Actizone® F5, Solvay's innovative 24-hour antimicrobial sanitizing

technology, is now fully approved in the United States

Princeton, October 26, 2022 - Solvay

Continue on Pg 45



**SABIC TO DEBUT  
AT PCIM ASIA  
CONFERENCE 2022  
40% THINNER  
ELCRES™ HTV150A  
FILM TO SUPPORT  
HIGH-HEAT  
SiC INVERTER  
TECHNOLOGY FOR XEV**

**B**ERGEN OP ZOOM, THE NETHERLANDS, October 24, 2022 - SABIC, a global leader in the chemical industry, will introduce at the PCIM Asia Conference 2022 a thinner gauge of its ELCRES™ HTV150A dielectric film. This new product can be used for capacitors in the traction inverters, onboard chargers and electrical compressors of hybrid, plug-in hybrid and battery electric vehicles (xEV). The 3-micron (µm) film is 40 percent thinner than SABIC's previously announced 5 µm film, enabling further volume and weight reductions and greater design flexibility through enhanced energy density for the capacitor. Like the 5 µm ELCRES HTV150A film, this exceptionally thin film maintains stable performance at high operating temperatures up to 150°C and addresses the critical performance gap experienced by traditional polypropylene (PP) films above 135°C. This new level of thermal performance helps customers increase the adoption of SiC power modules, improving inverter efficiency. A smaller package size with a thinner gauge film reduces weight while providing improved performance such as range and acceleration desired by xEV consumers.



SABIC will conduct a presentation at the PCIM Asia Conference 2022 titled, "Reliability Evaluation of New Generation High Temperature Capacitor Films for Inverter Applications," which is part of the Packaging and Reliability session. Yuan Zhou, lead scientist, Technology & Innovation, SABIC, China, will present on Wednesday, Oct. 26 at 12: 20 pm in conference room 2F201.

**"When we launched the five-micron ELCRES HTV150A film last year, we committed to develop thinner gauges to meet requirements for different capacitor voltages – and we've delivered on that pledge," said Greg Stoddard, technical director, Resins and**

**New Chemistries, SABIC. "Our**

**new three-micron film can help customers design smaller package sizes that potentially avoid the use of active cooling systems associated with films that perform at lower temperatures. As OEMs design electric and hybrid vehicles to operate at specific voltages, the new three-micron film can help with differentiation by providing tailored proper-**

**ties. Segmentation of voltage performance aids automakers to match capacitor performance to the needs of different vehicles in their product lines."**

Higher Temperatures, Thinner Gauges ELCRES HTV150A dielectric film is the first capacitor film in the industry to be engineered for stable performance at operating temperatures of -40°C to 150°C and frequencies up to 100 kHz, while offering stable capacitance, high insulation resistance and good dielectric performance (dielectric constant (Dk) of 2.9, dissipation factor (Df) of 0.0017). Other key properties include high breakdown strength over the full temperature range, good self-healing and excellent adhesion to aluminum and zinc. The film has been validated by customers for use with both film-foil and metalized electrodes. Capacitors built with 3 µm and 5 µm metalized films pass standard electrical and life tests at 150°C for 2,000 hours with low capacitance change and stable insulation resistance. Additional key features and benefits, typical properties and potential applications for SABIC's ELCRES HTV150A film portfolio can be found in SABIC's new brochure.

SABIC will continue to develop new products to meet higher dielectric and thermal performance requirements as inverter technology advances, demonstrating its strong commitment to deliver innovative material and film technologies to the power electronics industry.

Source Press Release

**UPCOMING RUGGED  
GRENADIER 4X4**



## FEATURES TOUGH ASA POLYMER FROM INEOS STYROLUTION

- Luran® S: Superior UV resistance and heat resistance
- Material durability makes it ideal for the robust INEOS Grenadier 4X4

Frankfurt, November 1, 2022 - INEOS Styrolution, the global leader in styrenics, has today announced that its ASA[1] polymer Luran® S product has been selected by INEOS Automotive as the material of choice for the front grille of its upcoming Grenadier 4X4.

INEOS Automotive was established to meet demand for a rugged and uncompromising off-roader, designed to conquer the world's harshest environments. The INEOS Grenadier, which is on track to begin series production in Autumn, is designed to be a capable, durable and reliable working tool, while also offering the comfort, refinement and reliability expected of a modern vehicle.

Luran S is up to the challenge, offering superior UV, heat and chemical resistance. In addition, Luran S provides appropriate impact strength and dimensional stability to make it the best material for the job.

**Donna Falconer, Head of Product at INEOS Automotive says: "We have the highest expectations of the materials we use for the Grenadier. Luran S fulfills them all. Not only does it deliver superior perfor-**

**mance in the harshest of environments, it also enables a high quality finish and appearance."**

Christophe Ginss, Sales Director Automotive Styrenic Specialties EMEA at INEOS Styrolution comments: "We are very excited to be part of the journey the INEOS Group has embarked on. Like our colleagues at INEOS Automotive, we focus on deliver-

ing products with an uncompromising quality."

Source : Press Release



## SOLVAY AND ORBIA JOIN FORCES TO CREATE A JOINT VENTURE IN NORTH AMERICA TO SUPPLY CRITICAL MATERIALS TO THE BATTERY MARKET

Solvay and Orbia today announced their entry into a joint venture framework agreement to create a partnership for the production of suspension-grade polyvinylidene fluoride (PVDF), creating the largest capacity in North America.

With more than half of U.S. car sales projected to be electric by 2030, demand for lithium-ion batteries and PVDF, a thermoplastic fluoropolymer used as a lithium-ion binder and separator coating, is revving up. The Solvay-Orbia joint

venture would fill a significant supply gap and will build upon favorable regulatory conditions promoting regional production and material security. Solvay, a global leader in PVDF, brings process technology and unparalleled global market know-how to this venture. With a vertically-integrated value chain and material holdings, Orbia's Fluorinated Solutions business Koura and Polymer Solutions business Vestolit will supply hydrofluoric acid, vinyl chloride monomer (VCM) and chlorine respectively. In combination, Solvay's Solef® PVDF innovations and Orbia's raw material assets and production expertise will enable delivery of PVDF that optimizes energy storage efficiency by increasing battery energy-density, safety and power.

**"We are delighted to partner with Orbia on this exciting opportunity to expand our battery solutions into North America, with strong support by the U.S. Department of Energy," said Ilham Kadri, CEO of Solvay. "This significant milestone in our electrification strategy enhances our global leadership and contributes to the establishment of the battery supply chain infrastructure in the United States. This decision follows our previously announced investment in Tavaux, France. These investments extend our ambition to grow global sales to the automotive market from €800 million in 2021**



## to over €3 billion by 2030.”

Said Sameer Bharadwaj, CEO of Orbia, “Our partnership with Solvay marks a key milestone for our business and our role in enabling the North American energy transition. Together with Solvay, Orbia’s unique position integrated into both the fluorine and vinyl chains, helps us to bring a cost competitive battery supply chain to the U.S., just as we maintain our commitment to developing sustainable solutions that can advance life globally. Along with our previously announced Department of Energy grant to produce LiPF<sub>6</sub> electrolyte salts in North America, this investment will put us in a leadership position to provide a secure source for fluorinated lithium-ion battery additives as well as local jobs.”

The total investment is estimated to be around \$850 million, and is expected to be funded in part by a grant awarded by the U.S. Department of Energy of \$178 million to Solvay to build a facility in Augusta, Georgia. Solvay and Orbia intend to use two production sites, one for raw materials and the other for finished product, located in the southeastern United States. Both plants are expected to be fully operational by 2026. Commencement of the joint venture is subject to finalizing and entering into definitive agreements between the parties and satisfaction of customary conditions, including obtaining regulatory approvals.

Source : Solvay

### LARGE BATTERY ENCLOSURES MADE FROM PLASTIC SERIES-READY

- Feasibility of plastic enclosures for high-voltage batteries in electric vehicles proven

- Technology demonstrator passes all important mechanical and thermal tests
- Prototype testing in an electric test vehicle
- Launch of development projects for series production with automotive manufacturers

Technical plastics such as polyamide 6 offer numerous benefits for the design of battery enclosures for electric vehicles – in terms of sustainability, manufacturing costs, weight savings and economical functional integration, for example. However, there were previously lingering doubts as to whether these large and complex components are also able to meet the very demanding requirements in relation to mechanical strength and flame-retardant properties. Kautex Textron and LANXESS have now carried out a comprehensive examination of precisely this using a jointly developed technology demonstrator made from polyamide 6. LANXESS was responsible for the material development and Kautex Textron for the engineering, design and the manufacturing process of the demonstrator.

“The near-series demonstrator passes all mechanical and thermal tests that are relevant for such enclosures. In addition, solutions for the thermal management and leak tightness of the enclosure, for example, have been developed. This all has proven the technical feasibility of these safety components, which are complex and subject to high levels of stress,” explains Dr. Christopher Hoefs, Project Manager e-Powertrain at LANXESS. At the moment, an enclosure prototype is being road tested in a test vehicle to verify its suitability for daily use. “We are currently jointly tackling the first series-production development

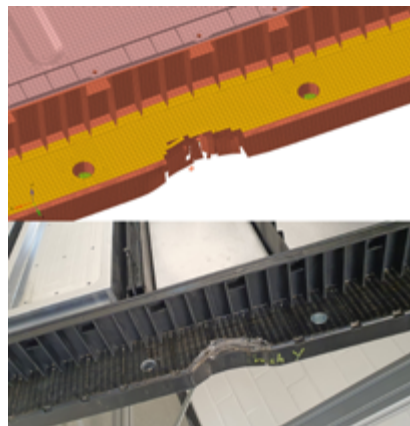
projects with automotive manufacturers in order to implement the new technology in series production,” explains Felix Haas, Director Product Development at Kautex Textron.

### Smaller carbon footprint

“Calculations revealed that the carbon footprint of the plastic enclosure is over 40 percent smaller compared to an aluminum design. The lower energy use in the production of polyamide 6 compared with metal as well as other factors – such as the omission of time-consuming cathodic dip painting to prevent corrosion where steel is used – help to minimize the carbon footprint,” says Hoefs. The thermoplastic component design also makes recycling the enclosure easier compared with thermoset materials such as sheet molding compounds (SMC), for example.

### Highly durable, resistant to external fire sources

The tests on the technology demonstrator were carried out in accordance with internationally recognized standards



for battery-powered electric vehicles such as ECE R100 from the Economic Commission for Europe or the Chinese standard GB 38031. The large-format all-plastic enclosure, which measures around 1,400 millimeters in both length and width,

demonstrated its performance in all relevant tests. For example, it meets the requirements of the mechanical shock test, which is used to examine the component’s behavior in the event of severe shocks, and of the crush test, which the developers use to examine the resistance of the battery enclosure in the event of slow deformation. The results of the drop and vibration tests were also posi-



tive, as were those of the bottom impact test. This test examines the stability of the batteries, which are mostly accommodated in the vehicle floor, in the event of a ground contact of the vehicle structure or of impacts from sizeable stones. "All test results corroborate the previous simulations and calculations. A critical failure of the plastic enclosure would not have occurred in any of the load cases," explains Haas. The demonstrator also proved its resistance to external sources of fire underneath the vehicle in accordance with ECE R100 (external fire).

### Lower weight, lower manufacturing costs

The demonstrator was developed based on the aluminum battery housing of a mid-size electric vehicle and designed for mass production. It is manufactured in a single-stage compression molding process with a molding compound based on the polyamide 6 compound Durethan B24CMH2.0 from LANXESS and does not require any further rework. Crash-relevant areas are specially reinforced with locally placed blanks made from the continuous-fiber-reinforced, polyamide 6-based composite Tepex dynalite 102-RGUD600. Compared with an aluminum design, there is a weight saving of around 10 percent, which is advantageous for the range and therefore the carbon footprint of the vehicle. The integration of functions – such as the fasteners, reinforcing ribs and components for the thermal management – reduces the number of individual components significantly compared with the metal design, which simplifies assembly and logistical effort and reduces manufacturing costs.

Source : Lanxess

## UMICORE AND POWERCO ESTABLISH

## JOINT VENTURE FOR EUROPEAN BATTERY MATERIALS PRODUCTION

Unique cooperation in European automotive industry: Umicore and Volkswagen Group battery company PowerCo to establish large-scale supply chain for sustainable batteries

Joint venture invests € 3 billion and aims to produce battery materials for 2.2 million fully electric cars per year by the end of the decade

Headquartered in Brussels, JV will provide Umicore secured access to important part of European demand for EV cathode materials and cover large part of supply for PowerCo's gigafactories in Europe

### Major milestone to help European Union achieve its Green Deal ambitions

Brussels/Salzgitter, 26 September 2022 – Umicore and PowerCo, the new battery company of the Volkswagen Group, announced today the founding of a joint venture for precursor and cathode material production in Europe. From 2025 onwards, the joint venture will supply PowerCo's European battery cell factories with key materials. The partners aim to produce by the end of the decade cathode materials and their precursors for 160 GWh cell capacity per year, which compares to an annual production capacity capable of powering about 2.2 million full electric vehicles. Cathode active materials are crucial for a successful powertrain transition towards e-mobility as they are the key technological lever for battery performance, as well as the biggest single contributor to overall battery cost.

The long-term partnership includes the production of precursor and cathode

materials in Europe, which are strategically important input materials central to battery value creation. In addition, Umicore and PowerCo will collaborate on the sustainable and responsible sourcing of raw materials, an area in which Umicore is an industry leader. Finally, Umicore will be providing refining services to PowerCo and both partners aim to include, at a later stage, elements of refining and battery recycling based on Umicore's technology and know-how into the scope of the JV.

"This partnership further strengthens and diversifies our exposure to a major player in the EV value chain and marks an important step in the execution of our strategy to set-up value creative partnerships across the battery value.

It is also a strong signal of recognition of our product and process expertise and a testament to the success of our strategy to establish sustainable industrial-scale, closed loop battery materials value chains in key regions.

We are supporting our customers on their path to electrification, right from the start, and are very pleased to partner with PowerCo and support Volkswagen in their fast transformation towards sustainable electric mobility."

### Mathias Miedreich, CEO of Umicore

Thomas Schmall, Group Board Member for Technology at Volkswagen AG and Chairman of the Supervisory Board of PowerCo SE, said at the signing of the JV: "Cathode material is an indispensable strategic resource for battery production, accounting for roughly fifty percent of overall cell value. Immediate and long-term access to extensive capacity is thus a very clear competitive advantage. We are setting up a sustainable, transparent supply chain with high environmental and social standards, localizing value creation here in Europe."

Production at the JV is scheduled to start in 2025 to supply PowerCo's



Salzgitter factory and reaching an annual capacity of 40 GWh in 2026. Both partners target to grow the JV's annual production capacity to 160 GWh by the end of the decade, based on market and demand development. The production site search is still ongoing.

Under the terms of the agreement, both partners will jointly control the JV and will equally share costs, investments, revenues and profits. The JV will give both partners a significant first-mover advantage in the fast-growing e-mobility market in Europe. Together they plan to invest about €3 billion into new materials production capacities.

The partnership will provide Umicore with secured access, through firm take or pay commitments, to an important part of the European demand for EV cathode materials at guaranteed value creative returns. It will provide PowerCo, at a significant scale, secure and cost-competitive access to Umicore's innovative, sustain-

ably sourced and tailored high-performance battery materials for its unified cell strategy in Europe. It will also allow PowerCo to benefit from Umicore's proven production capabilities as well as its upstream expertise.

The JV is designed to meet both partners' profitability and return criteria and will unlock, for each side, significant synergies and economies of scale. Umicore's IP and know-how will be made available through a license agreement to the JV to ensure its leading technology position.



Ralph Kiessling, EVP Energy & Surface Technologies at Umicore: "Through this agreement, we are bringing in our long-standing and proven ex-

pertise in the battery materials value chain, while gaining secured access to substantial sales volumes. Moreover, the JV will unlock significant cost and operational synergies with the Umicore Group, hereby strongly contributing to

Umicore's 2030 Return on Capital Employed ambitions expressed at our recent Capital Markets Day."

PowerCo CEO Frank Blome said at the contract signing: "The availability, cost and technical performance of battery cells are key requirements for the successful ramp-up of e-mobility. By building up substantial production capacities, we are securing the rapidly growing demand for battery-grade materials for our main customer Volkswagen AG in terms of volume and at optimal cost." "At the same time, value creation will be localized here in Europe and a sustainable, transparent supply chain with high environmental and social standards will be created," Blome said.

PowerCo Chief Procurement Officer Jörg Teichmann emphasized, "We are consistently entering the holistic value creation of the battery. A supplier industry for preliminary products on the scale required does not yet exist today. We are changing that through our long-term cooperation with Umicore as global market leader for the key materials used in cell production."

Source : Umicore

## DRUG AND PHARMA

### SILGAN DISPENSING INTRODUCES GEMINI BE NASAL PUMP AT CPHI FRANKFURT

To help pharmaceutical brands deliver faster-to-market nasal spray solutions, Silgan Dispensing, a global leader in the design, development and distribution of highly engineered pumps and sprayers in the pharmaceutical, home and beauty markets, announces the launch of the Gemini™ BE Nasal Pump.

Developed with Silgan Dispensing's

Bioequivalence (BE) Program, the Gemini™ BE Nasal Pump is adaptable to effectively match specific formulations for a perfect performance fit and quick time-to-market. With an extensive five-stage custom process, Gemini™ allows for ultimate customizability with over 40 different spray configurations.

Additional benefits of the Gemini™ BE Nasal Pump include:

- Cleanroom, pharma-grade, and ISO-certified production
- High-dosing accuracy
- Low strokes to prime

- Capability to match existing reference listed drug (RLD) devices across a range of formulations
- Ability to modify spray characteristics like DSD, plume geometry, and spray pattern



“Bioequivalence testing helps our customers overcome regulatory and technical barriers that have previously slowed product commercialization,” said Allan Houston, vice president sales & marketing, healthcare at Silgan Dispensing. “The Gemini™ BE Nasal Pump showcases our BE Program and Silgan Dispensing’s ability to deliver expedited nasal devices that fit our customers’ needs as a replacement or secondary supply chain option.”

Silgan Dispensing’s BE Program is aligned with U.S. FDA and EU methods – providing customers the confidence they require from a healthcare packaging supplier. Additionally, the BE Program is supported by Silgan Dispensing’s regulatory team, utilizing the company’s Nasal Spray Testing cGMP lab and equipment, and partners with accredited, external cGMP lab testing services and CMOs for nasal products.

Source : World Pharma Today

## ASCEND CONTINUES BROAD EXPANSION INTO NEW MARKETS, LAUNCHES HIDURA™ MED PORTFOLIO

Ascend Performance Materials announced a new portfolio of medical grade nylon 6,6 resins and engineered materials for the healthcare market under its HiDura™ brand.

HiDura MED products meet ISO 10993-5 and 10993-10 testing criteria and can be used in a variety of healthcare applications, including:

- Medical durables: Braces, patient support, furniture, mobility aids and other durable equipment.
- Drug delivery: Filtration equipment and membranes, tubing, fluid con-

nectors and auto injectors.

- Surgical instruments: Scalpel handles, dental instruments, forceps and clamps
- Medical equipment: Housings, protective cases, cables, sensors, connectors and wearables.
- Wound care: Sutures, tapes and zip ties.

“Ascend’s nylon 6,6 brands are synonymous with unparalleled quality across multiple industry segments,” said Dhruv Shah, Ascend’s healthcare business manager. “Our HiDura MED portfo-



lio offers the same quality to customers looking for solutions that meet the stringent requirements of the healthcare market, including ISO 10993-5 and 10993-10 biocompatibility testing, an effective change notification policy and operational policies to assure the highest possible standards.”

Shah added that the company is focused on supporting its customers’ growth and will continue to expand its healthcare portfolio, including the introduction of long-chain and amorphous polyamide grades in the future. Ascend is also actively exploring applications in medical durables and wound care using Acteev®, its award-winning, patented technology that incorporates the antimicrobial benefits of active zinc ions into our polyamide to create long-lasting functionality and efficacy in reducing the growth of microbes that can cause some medical products to degrade.

HiDura MED grades are available from Ascend and the company’s distribution

partners.

Source : PRNewswire

## ROBOTIC CAPSULES ARE HERE, ENHANCING THE GUT DRUG DELIVERY

One of the most difficult medical research findings, drug distribution still faces a lot of challenges, including surviving the acidic parts of the stomach, digestive enzymes, and most significantly, the mucus barrier that surrounds the digestive canal. Scientists at the Massachusetts Institute of Technology (MIT) have discovered a fresh approach.

They have created a robotic pill that might be used to orally distribute large protein medications like insulin, which are currently only available as injections and are made of protein or nucleic acids. The RoboCap, created by MIT, has a robotic cap that, once it enters the small intestine, burrows through the mucus layer, allowing the drugs to reach the cells lining the intestine.

In a report published in Science Robotics, Shriya Srinivasan, a research associate at MIT’s Koch Institute for Integrative Cancer Research, provided a thorough description of the pill.

Researchers have demonstrated that the innovative pills are capable of transporting both insulin and the antibiotic peptide vancomycin, which is currently given intravenously. The protective capsule was created by a team to navigate obstacles inside the body by rotating and tunnelling.

She reasoned that they could directly apply the medication to the epithelium if they could burrow through the mucus. According to a statement from Shriya Srinivasan, the concept is to swallow this capsule, allowing the outer layer to disintegrate in the digestive tract and



expose all of the components that start to disintegrate and remove the mucus. The pill is about the size of a multivitamin and has a spinning mechanism on one end and the medication in a small reservoir on the other. The capsule's gelatinous outer layer can be adjusted such that it dissolves only at a certain pH.



the area. The RoboCap capsule is coated with tiny studs to brush the mucus away, and as the capsule dissolves, researchers claim that the change in pH causes a tiny engine inside the RoboCap capsule to start spinning. The medicine is slowly discharged into the digestive system thanks to the spinning motion's aid in eroding the compartment where it is stored.

**The team found that the robotic pill could deliver 20 to 40 times more medication than a similar capsule with-**

**out the tunnelling mechanism when they tried it on animals to deliver both insulin or vancomycin. There haven't been any negative effects reported yet after the medicine is freed from the capsule and it moves naturally through the digestive system. The team is optimistic that by altering the pH at which the gelatin covering dissolves, it may also be used to address the stomach or colon.**

Source : World Pharma Today

## CHEMICAL TECHNOLOGY

### SHIN-ETSU CHEMICAL HAS DEVELOPED A TRANSPARENT, WATER-RESISTANT COATING MATERIAL THAT WILL PROMOTE THE CYCLICAL USE OF PAPER PRODUCTS

Shin-Etsu Chemical Co., Ltd. (Head Office: Tokyo; President: Yasuhiko Saitoh) has developed a new coating material "Sicle™", calls "Sa-I-Ku-Lu" that adds a water-resistance property to paper products such as cardboard and also dramatically facilitates their recyclability.

In order to recycle regular papers treat-

ed with a water-resistant coating material and a water-resistant film, it is necessary to separate these coating materials and films from paper products in consideration of the burden on the environment. However, this new coating material is composed of silicon and oxygen-derived components, and this new material makes possible a recycling process that does not require the separation of these materials, thus contributing to a reduction of the burden on the environment.

In addition, by means of coating paper products such as cardboard with this new material, when the adhesive tape pasted on the cardboard and other types of paper is peeled away, the printing on the cardboard will not be removed. This characteristic will promote the reuse of



cardboard and will also contribute to the reduction of greenhouse gases.

Cardboard that is impregnated and coated with this new coating material "Sicle™" that is made from silicon and oxygen — materials that are plentiful on earth — will produce the following characteristics:

- It has high water-resistance. It will keep its strength even when getting wet from rain and will protect from water damage your unattended important package deliveries left outside.
- Reuse is possible. Costs can be reduced.
- Recycling of cardboard is possible. "Sicle™" is dissolved by caustic soda being used in the wastepaper recycling process



without adversely affecting the environment.

- It is flame retardant, so that when ignited, it will prevent the further fire spreading.

Because cardboard is easy to recycle inasmuch as its main raw materials are used wastepaper, they are used in a wide range of industries as a packaging material that has a gentle environmental footprint, starting with the food and beverage industries.

In recent years, demand for packaging materials has increased along with the expansion of e-commerce, and the demand for cardboard has been strongly growing. Going forward, demand is expected to robustly grow as well.

During disasters the use is expanding of beds made of cardboard being employed in evacuation centers, and furniture made from cardboard such as tables, chairs and storage containers for general household use as well as pallets made from cardboard that are used in logistics are all attracting a great deal of attention.

**“Sicle™,” the new coating material, in each of its applications provides a high water-resistance capability and contributes to making higher functionality cardboard as a packaging material. Furthermore, from the perspective of environmental conservation and materials cycling, this product will promote development of new markets for cardboard.**

Shin-Etsu Chemical will continue to endeavor to enhance our ability to contrib-

ute to the solution of various social and customer issues. We will do so by developing and supplying advanced functional products through making full use of the technological power that Shin-Etsu has nurtured up to now, as we work to further contribute to the realization of the sustainability of society.

These two cardboard boxes were each soaked with water for ten minutes using a high-pressure shower, the box on the left without a Sicle™ coating and the box on the right with a Sicle™ coating.

Source : Shin-Etsu

## DOW LAUNCHES NEW GENERATION OF HIGH-BONDING ADHESIVE FOR EV BATTERIES

**New, innovative thermal elastic high-bonding adhesive solutions improve safety, sustainability and integrated assembly of EV battery packs**

Shanghai, China – November 5, 2022  
S – A new generation of VORATRON™ MA 8200S high-bonding adhesives has been introduced by Dow (NYSE: DOW) at the 5th China International Import Expo (CIIE 2022). The New VORATRON™ MA 8200S high-bonding adhesives significantly enhance the safety, durability, sustainability, integrated assembly and overall performance of electric vehicles battery packs. This breakthrough innovation comes through Dow MobilityScience™, Dow’s innovative solutions for the transportation industry. This new series of adhesives has been successfully applied to the "Magic Cube" batteries used by Shanghai Automotive Industry Corporation (SAIC) MG 4 (MG MULAN).

Across the global transportation industry, there is an increasing demand for smart, automated, electrified and low-carbon solutions, as new generation

of electric vehicles become safer, greener and more innovative. In recent years, the industry’s growth has been fueled by innovations in battery packs and their mass production. Especially SAIC’s "Magic Cube" batteries come along with complex and stringent requirements for material bonding and cell assembly.

**The person who in charge of MG 4 (MG MULAN) 's research and development claims that the company has overcome numerous difficulties in R&D process, particularly with regard to the technical iteration and commercial mass production of Magic Cube batteries, because of the company’s strict requirements for global high quality. Dow and SAIC R&D team collaborated to continuously improve technologies and products during the product research and development period to achieve rapid iteration. This effort eventually led to the creation of the ideal high-standard and high-quality bonding adhesive solution, which resulted in ground-breaking advancement for the project.**

Additionally, Dow’s VORATRON™ MA 8200S high-bonding adhesives comply with the European Union RoHS (Restriction of Hazardous Substances) and REACH (Registration, Evaluation, Authorization and Restriction of Chemicals) regulations, both of which applied to the products to be sold in the EU. Therefore, with the RoHS and REACH certifications, VORATRON™ MA 8200S high-bonding adhesives can also boost the global development of MG 4 (MG MULAN) when combined with Dow’s global layout.

The innovative VORATRON™ MA 8200S high-bonding adhesives are being released primarily for bonding cells with insulating bottom shells, upper cover plates and side plate stiffeners, including electrified E2 platform cells’ bottom high-bonding adhesives, upper cover high-bonding adhesives, and side panel high-bonding adhesives.

Source : DOW



### CLARIANT LAUNCHES NEW ADDITIVES AT K 2022 TO SUPPORT PLASTICS SUSTAINABLE EVOLUTION

- Anti-scratch additive for PP & TPO formulations boost reuse potential of plastics used in consumer applications
- Extend service life of agricultural mulch films with new light stabiliser solution
- Novel bio-based lubrication and nucleation additive for polyesters in E&E and transportation sectors

**M**UTTENZ, October 26, 2022 - K 2022 visitors can look forward to new Clariant additive solutions to progress more sustainable plastics and reduce resource use. New developments give applications greater resilience to support longer use and reuse on the path to circularity. Plus, solve production challenges while achieving better efficiency and lower carbon footprint during compounding and processing (Hall 8a Booth J11).

“By extending a product’s service life and by boosting reuse potential, the plastics industry can contribute positively towards reducing wasteful consumption, and increase circularity in key segments. Adopting ways to reduce material waste and energy use in production brings further sustainability advantages and improves product carbon footprint. With these new additives, including renewable-based solutions, in our portfolios, we’re excited to offer plastic processors and value chains

more support to collaborate and further innovate together,” comments Martin John, Head of Advanced Surface Solutions at Clariant.

#### **New anti-scratch additive to extend the service life of consumer goods**

Surface aesthetics play a crucial role in the perceived quality of consumer goods. Clariant’s new renewable raw material-based anti-scratch additive for polypropylene (PP) and thermoplastic olefins (TPO) formulations – Licowax® AS 100 TP - enables molded plastic goods across a wide range of consumer applications to maintain their original look and feel for longer. This offers significant potential to extend service life and improve properties’ retention and parts’ reuse.

The new additive helps to prevent scratches and mars on the surface of goods during handling, transportation, and end-use. This is particularly beneficial for otherwise scuff-prone applications such as interior automotive parts like dashboards and door panels, household appliance casings, cosmetics packaging, and lightweight luggage.

#### **New light stabilizer supports more sustainable agricultural films**

Mulch films perform an important role in optimizing crop growing conditions, by protecting both crops and soil from contamination and from the loss of moisture and nutrients that could jeopardize yields. New AddWorks® AGC 970, Clariant’s latest light stabilizer solution for polyethylene agricultural films, offers the mulch segment a step up in product durability. Addition of the additive enables converters to extend the service life of their products, in particular by increasing UV resistance and resistance to high levels of agrochemicals. The granular additive can be dosed directly during conversion which sup-

ports more tailored use.

#### **New bio-based wax for reduced cycle times & easier processing of injection molded polyester compounds**

Benefit from a unique combination of lubrication and nucleation in engineering plastics for greater efficiency in compounding and processing. Compared to more conventional products, new bio-based Licocare® RBW 560 TP Vita is able to withstand higher processing temperatures thanks to excellent thermal stability and low volatility, and works more effectively at low dosage. It also has outstanding color stability. The combined benefits make it particularly attractive to formulators of polyester compounds for use in the E&E or transportation industries.

The new additive promotes easier mold release which improves the surface quality. Productivity-wise, it also means fewer polyester parts get stuck in the mold and therefore less injection molding downtime. The risk of short shots and rejects is reduced too. It is possible to produce more parts per machine hour due to faster cycle times driven by shorter cooling cycles. As a result, energy consumption is reduced.

Licocare RBW 560 TP Vita is the latest extension to Clariant’s Licocare range of high-performing additives based on renewable, non-food-competing feedstock. They are derived from crude rice bran wax, a by-product from the production of rice bran oil. Vita designated products use real renewable content of at least 98% Renewable Carbon Index (RCI), thus offering the advantage of a lower carbon footprint compared to state-of-the-art alternatives.

Clariant has submitted an application for FDA food contact approval for its entire range of Licocare RBW additives. This will open up their use by plastics



compounders and masterbatch producers in an even wider range of plastics applications.

**Clariant's additive products and solutions offer exciting opportunities for the plastics industry to strengthen the links between efficiency and sustainability, safety and performance, value and low carbon footprint. For more information on these featured new additives, as well as Clariant's wider support to meet sustainability and circular economy challenges, meet the team at K 2022 Hall 8a Booth J11 or visit [www.clariant.com/K-2022](http://www.clariant.com/K-2022).**

Source : Press Release

## **MONDI AND RECKITT LAUNCH PAPER-BASED PACKAGING FOR FINISH DISHWASHER TABS WITH 75% LESS PLASTIC**

- Mondri and Reckitt created an innovative paper-based packaging solution for Finish dishwasher tablets
- New packaging reduces plastic by 75% and will eliminate more than 2,000 tonnes of plastic each year once roll-out is complete
- Move contributes to Reckitt's ambition to halve the amount of virgin

plastic in its packaging by 2030

October 27, 2022 – Mondri, a global leader in sustainable packaging and paper, has helped Reckitt on its sustainability journey by designing new paper-based packaging for the company's market-leading Finish dishwasher tablets.

Packaging for dishwasher tablets must be sealable, durable and water resistant, so using paper has traditionally been challenging. However, by working closely together along Mondri's EcoSolutions approach, Mondri and Reckitt were able to create a solution that is sustainable by design: the new Finish packaging has successfully replaced 75% of the plastic with responsibly sourced paper. The remaining plastic is used to strengthen the paper structure and provide barrier protection to ensure the quality and safety of the Finish product as well as a re-closable seal.

The new paper-based packaging for Finish will initially launch exclusively with Carrefour in France, where the packaging is recyclable in the existing paper recycling streams. Any adaptations required following the initial market launch will be incorporated before its roll out in other countries over the next few years. Once the launch is complete, Reckitt will be eliminating more than 2,000 tonnes of plastic every year - which is the equivalent of 50 million 1-litre bottles.

**Angela Naef, Chief Research & Development Officer at Reckitt said: "Removing plastic from our products is a priority across all Reckitt's brands. We are always looking at new and innovative ways to improve sustainability in our pack-**

**aging and we are committed to pioneering further packaging innovation. One of Reckitt's sustainability ambitions is to reduce virgin plastic in our packaging by half by 2030. As well as removing plastic, the new packaging is expected to generate 15% less CO2 emissions across the product's lifecycle compared to the previous plastic packaging."**

Gonzalo Balcazar, Global Category Vice President at Finish added: "This latest design represents our commitment to build better future solutions, not just for cleaner dishes but for a cleaner, more sustainable world. The paper-based solution ensures that Finish customers can enjoy the same product they know and love, with the added benefit of doing something for the environment."

Olivier Seux, Head of Global Key Accounts at Mondri said: "With Reckitt, we were able to develop a paper-based packaging solution that reduces plastic usage while still providing the necessary product protection. This project is a great example of using paper where possible, plastic when useful. The packaging



has been designed with sustainability in mind to minimise the impact on the environment. We look forward to working with Reckitt to continue to test and develop solutions that help them achieve their sustainability goals."

Source : Press Release



### INEOS SIGNS AGREEMENT WITH PLASTIC ENERGY FOR ITS LARGEST PLANT TO PRODUCE 100,000 TONNES OF RAW MATERIALS FROM PLASTIC WASTE

- The agreement follows a collaboration between both companies to explore the construction of a commercial scale plant which began in 2020.
- The recycled material has already been successfully converted into virgin-quality polymer through the INEOS cracker at Köln, Germany, and used by selected customers and brands.
- As well as reducing the risk of plastic pollution re-use of 'end of life' plastic will also help to reduce total emissions, supporting the transition to net zero.
- Rob Ingram, CEO INEOS Olefins & Polymers Europe said: "This is further evidence of our commitment to creating a more sustainable future for our industry and in particular developing a circular economy that keeps valuable materials in use and out of the environment."

INEOS Olefins & Polymers Europe and Plastic Energy, have today announced a Memorandum Of Understanding to produce 100,000 tonnes per annum of recycled raw materials from plastic waste. This will be the largest use of Plastic Energy technology on the market. These new raw materials will enable

a circular approach to produce essential plastic items that meet the requirements of demanding food contact and medical applications.

Production will be based in Köln, Germany. Plastic Energy's patented TAC™ recycling technology will turn difficult-to-recycle plastic waste otherwise destined for incineration or landfill, into a valuable raw material TACOIL™, a Plastic Energy product that can be used to create virgin-quality polymers.

INEOS will also invest in technology to process the TACOIL™ further before feeding it to their steam crackers, where it will replace traditional raw materials derived from oil. This use of advanced recycling enables plastic waste to be turned into new, virgin-quality materials that can be used in demanding applications where safety standards require the highest level of product purity and performance.

As well as reducing the risk of plastic pollution and the use of fossil-based raw materials, the circular re-use of 'end of



life' plastic will also help to reduce total emissions, supporting the transition to net zero.

INEOS and Plastic Energy first announced a collaboration to explore the construction of a commercial scale plant in 2020. Working together TACOIL has already been successfully converted

into virgin-quality polymer through the INEOS cracker at Köln, Germany, and used by selected customers and brands to demonstrate the viability and demand for materials from advanced recycling. As a result, INEOS and Plastic Energy are now delighted to announce this extension of their partnership. Production is targeted for the end of 2026.

Rob Ingram, CEO, INEOS O&P Europe North, said: "Advanced recycling is an essential part of the solution for turning plastic waste into materials that can be used for demanding applications. Our position is that advanced recycling has to be done at scale in order to make the process environmentally and commercially viable. I'm therefore delighted to take this first step with Plastic Energy towards building that kind of capability from day one."

"This is further evidence of our commitment to creating a more sustainable future for our industry and in particular developing a circular economy that keeps valuable materials in use and out of the environment."

Carlos Monreal, Founder and CEO of Plastic Energy, said: "We are pleased to announce this project with INEOS to further scale our portfolio of plants in Europe. TACOIL™ from our recycling process has already been used in products that have been commercialised on the European market, and we look forward to working with INEOS to enable the production of more recycled content."

Using a mass balance approach, an independent, third-party organization such as ISCC or RSB will certify that fossil-based feedstocks have been substituted by the new, recycled materials and ensure that recycled benefits are being accounted for correctly. A mass balance approach enables co-processing of

circular and fossil feedstocks, a key step in the transition to a circular economy.

#### **More on INEOS O&P Europe's recycling solutions**

This is further evidence of INEOS O&P Europe's commitment to taking action across the value chain to create a more sustainable future. Advanced recycling solutions are complementary to its Recycl-IN range, which compounds mechanically recycled materials with highly engineered polymers to produce products that enable converters and brand owners to meet consumer demands for an increase in the use of recycled materials, while meeting high performance specifications.

Advanced recycling provides solutions for applications such as food contact and medical, while the Recycl-IN range targets non-food contact uses. The complementary nature of the two approaches is also reflected in the type and qualities of waste used for each.

Source : Ineos

## **EVONIK AND PHATHOM PHARMACEUTICALS PARTNER TO PRODUCE NOVEL ACID-BLOCKER VONOPRAZAN**

- Evonik to produce commercial quantities of the drug substance vonoprazan for use in VOQUEZNA™ TRIPLE PAK™ and DUAL PAK™, and other products containing vonoprazan
- Supply security through production at sites in Europe and North America
- Agreement strengthens Evonik's track record as leading contract development and manufacturing organization (CDMO)

Essen, Germany. Evonik has entered into a long-term supply agreement with Phathom Pharmaceuticals, a U.S. biopharmaceutical company focused on developing and commercializing new treatments for gastric acid-related diseases. Through the agreement Evonik will produce large-scale volumes of vonoprazan at its FDA-inspected manufacturing sites in Tippecanoe, Indiana, USA and Dossenheim, Germany.

"The manufacture of vonoprazan requires multi-step syntheses involving complex chemistries. We are delighted to be able to bring the right mix of technologies and assets to this collaboration," said Thomas Riermeier, head of the Health Care business line at Evonik. "We provide customer-focused CDMO services in combination with excellent quality, enabling our trusted partner Phathom to fight gastrointestinal disorders worldwide."

As one of the world's leading CDMOs for active pharmaceutical ingredients (APIs) and intermediates, Evonik's Health Care business is part of the life science division Nutrition & Care and represents a key growth business for Evonik. The agreement with Phathom builds on the company's track record of delivering complex APIs to meet the clinical and commercial supply needs of biotech and large pharma customers around the world.

"We are excited to partner with Evonik to help us bring novel, first-in-class treatment options to patients suffering with gastrointestinal disorders, said Jay Buchanan, Vice President of Manufacturing and Supply Chain at Phathom Pharmaceuticals. We value Evonik's commitment to quality and expertise with API production and believe our partnership brings us closer to delivering on our mission to improve the lives of patients with gastrointestinal disorders.



"We are proud to work with Phathom. Our fruitful collaboration through the process development, pilot campaign, and validation stages have laid the foundations for a productive partnership for supplying commercial quantities," said Stefan Randl, head of the Drug Substance product line at Evonik's Health Care business.

**To address the specific needs of large or complex projects, Evonik has established a broad portfolio of differentiating technologies which can be combined to support multi-step API and HPAPI synthesis. These technologies include catalytic and biocatalytic reactions, large scale cryogenic chemistry, continuous processing, fermentation, PEGs and mPEGs, catalysts, and polymer APIs. Evonik's expertise in heterogeneous catalysis, in particular, was fundamental to achieving high efficiency and purity of the API used in vonoprazan. In addition to superior technological expertise and an integrated portfolio of services, customers are also attracted by Evonik's reliability and commitment to sustainability.**

Source : Evonik



## CLARIANT OPENS GLOBAL COMPETENCE CENTER FOR DECARBONIZATION MINERALS IN DUBAI

- New laboratory and highly skilled team dedicated to the development of innovative and customized solutions
- CCDM is a core pillar of Clariant's recently launched Decarbonization Minerals Program
- Reinforces Clariant's commitment to sustainability and global decarbonization efforts

**H**OUSTON, TX, October 25, 2022 - Clariant Mining Solutions will open a dedicated global Competence Center for Decarbonization Minerals (CCDM) at the Dubai Science Park in Dubai, United Arab Emirates (UAE) on October 25, 2022. This laboratory is designed to meet the increasing global demand for solutions to process decarbonization minerals more efficiently.

**The decarbonization of the production and transportation of goods and services is a growing megatrend. Mining is one of the key foundational industries enabling decarbonization by delivering the minerals required for these technologies, such as nickel, cobalt, and lithium for batteries for electric vehicles, rare**

**earths for magnets in wind turbines, and alumina for lighter-weight vehicles and solar panels.**



Research activities will include improving metallurgical performance by maximizing recovery and grade, optimizing cost-performance, and creating more sustainable solutions for the processing of decarbonization minerals.

“Our new Competence Center is another important milestone in our purpose-led strategy to become a sustainability leader in mining chemicals,” comments George Nunes, Global Head of Clariant Mining Solutions.

Source : Press Release

## AIR LIQUIDE TO INVEST 500 MILLION EUROS IN THREE NEW PLANTS FOR THE SEMICONDUCTOR SECTOR IN TAIWAN

**A**ir Liquide announces the construction of three plants in Taiwan to supply, in the framework of long-term contracts, two of the world's largest semiconductor manufacturers with large volumes of ultra high purity in-

dustrial gases for their leading edge fabs. Air Liquide Far Eastern, a joint venture between Air Liquide and Far Eastern Group, will invest a total of approximately 500 million euros in these state-of-the-art production units. Contributing to the development of electronics, a key sector for the future, these investments are in line with ADVANCE, the Group's strategic plan.

Located in the proximity of the customers' manufacturing sites, these plants, leveraging the Group's most advanced technologies, will produce a total of up to 2 billion Nm<sup>3</sup> per year of ultra pure nitrogen, as well as oxygen and argon. The first plant is expected to be operational in 2024.

With these investments, Air Liquide strengthens its presence in the area and reinforces its partnership with two long term leading players in the Electronics industry. Air Liquide Far Eastern has already invested over 400 million euros in Taiwan between 2019 and 2021, to provide ultra pure gases to its electronics customers.

François Abrial, Member of the Air Liquide Group's Executive Committee supervising Asia Pacific, said:

**“We are pleased to further strengthen our collaboration with these semiconductor leaders, with whom we have been partners for more than 30 years. These contracts demonstrate Air Liquide's customers' trust in our capacity to provide innovative, reliable ultra-high purity industrial gas production solutions.**



**Buoyed by the digital revolution, Electronics is among the most dynamic growth drivers which will contribute to Air Liquide's strategic plan ADVANCE."**

Source : Air Liquide

## ASCENT ACQUIRES CIRCULAR POLYMERS FOR LOW-CARBON POLYAMIDES

HOUSTON, US: Ascend Performance Materials purchased a majority stake in Circular Polymers giving Ascend a more consistent supply of PCR (Polymerase Chain Reaction).

Circular Polymers, a California recycler of post-consumer polymers, including polyamide 6 and 66, polypropylene and polyester (PET). The move secures a consistent supply material for high quality post-consumer resins for Ascend's ReDefyne sustainable polyamides, launched at K 2022.

Circular Polymers by Ascend, reclaims and processes postconsumer carpet via a unique technology and has redirected approximately 85 million pounds of material from landfills into new goods since 2018.

**"We are focused on helping our customers reach their sustainability goals and Circular Polymers by Ascend provides materials that offer strong performance with a considerably smaller environmental footprint, compared with**

**other technologies like pyrolysis," said Phil McDivitt, president and CEO of Ascend.**

"Since we launched ReDefyne, the demand for our circular products has been significant across all segments of our business, including automotive, consumer, electronics and high-performance fibres and textiles," added McDivitt.

Ascend has committed to reducing its greenhouse gas emissions by 80 percent by 2030 and recently announced two new efforts to reduce the carbon footprint of its products.

"Having Ascend on board will accelerate our growth and ensure these materials go back into new long-term, high-performance applications," said David Bender, founder, and CEO of Circular Polymers.

"Since 2018, we have focused on improving the sourcing and processing of postconsumer high-performance polymers," Bender says.

Source : World of Chemicals

## ASCEND BUYS MAJORITY STAKE IN RECYCLER CIRCULAR POLYMERS

HOUSTON – November 8, 2022 – Ascend Performance Materials has purchased a majority stake in California-based Circular Polymers, a recycler of post-consumer, high-performance polymers including polyamide 6 and 66, polypropylene and polyester (PET). The deal provides Ascend with a consistent supply of high-quality PCR materials for its ReDefyne™ sustainable polyamides,

launched at K 2022.

Circular Polymers, which as part of the deal is renamed Circular Polymers by Ascend, reclaims and processes post-consumer carpet via a unique technology and has redirected approximately 85 million pounds of waste from landfills into new goods since 2018.

**"We are focused on helping our customers reach their sustainability goals and Circular Polymers by Ascend provides materials that offer strong performance with a considerably smaller environmental footprint, compared to other technologies like pyrolysis," said Phil McDivitt, president and CEO of Ascend. "Since we launched ReDefyne, the demand for our circular products has been significant across all segments of our business, including automotive, consumer, electronics and high-performance fibers and textiles."**

Ascend, a fully integrated producer of durable materials, has a sustainability strategy based on three pillars: empowering people, innovating solutions and operating without compromise.

Ascend has committed to reducing its greenhouse gas emissions by 80% by 2030 and recently announced two new efforts to reduce the carbon footprint of its products.

David Bender, founder and CEO of Circular Polymers, will hold the remaining equity and stay on as CEO of the company.

"Since 2018, we have focused on improving the sourcing and processing of post-consumer high-performance polymers," said Mr. Bender. "Having Ascend on board will accelerate our growth and ensure these materials go back into new long-term, high-performance applications."

Source : Press Release



### Continue from Pg 30

announced that Actizone® F5, which was successfully launched in the EU and approved by the Environmental Protection Agency (EPA) in November 2021, has now completed registrations with-in all fifty US states. This ready-to-use broad-spectrum disinfectant for hard surfaces[1] with revolutionary 24-hour antimicrobial sanitization[2], is now therefore available in the United States\*.

“Actizone® F5 is an important step forward for consumers, businesses, and institutions in helping them maintain health standards and offer protection against a wide range of bacteria and viruses, including cold and flu viruses, monkeypox and Ebola viruses[3], and variants of SARS-CoV-2[4]” said Oliver Hufer, Executive Vice President and General Manager, Actizone®. “We are delighted to know that it is now available for customers in the United States

to help protect them during their daily personal and professional lives.”

Actizone® F5, a residue-free 24-hour sanitizing technology, is designed specifically to combine efficient cleaning performance together with the one-step disinfection of harmful bacteria and viruses. This infection-prevention product kills 99.9% of harmful bacteria and viruses, including rotaviruses, while eliminating 99.9% of bacteria for 24 hours. Now, thanks to this breakthrough technology, US customers can join people around the globe who enjoy peace of mind and feel more confident.

\* The United States Environmental Protection Agency (EPA) has approved the registration of Actizone® F5 (EPA Reg. No 4564-27). Any sale of Actizone® F5 in a particular country or local jurisdiction shall be solely on the basis of approved registration(s), and any claims regarding Actizone® F5 in a particular jurisdiction shall be addressed solely by the laws and approval of Actizone® F5 in that jurisdiction. This is not intended to promote, sell or recommend the sale or use of Actizone® F5 in countries in which it is not registered yet, including Canada. Successful Actizone® product registration in any jurisdiction, including with EPA, does not constitute endorsement by EPA or any other competent authority.

Source : Chemical Market



## Clariant Unveils Top Ingredients for Beauty Products at Leading Trade Events in Asia

- Water soluble Eclipsogen® SX offers new generation of carefree UVA protection for daily sun care
- Natural and active ingredient Prunizen™ promotes hair and scalp well-being by regulating cortisol production
- ISO 16128 compliant natural formula calculator sheds light on natural content percentage of formulation

**S**INGAPORE, October 31, 2022 - Whether it's skincare or haircare products that have the consumers' heads turned at the post-COVID era, Clariant's dedicated lines of active and sustainable ingredients are bringing the

most out of beauty formulations for hair and scalp well-being. Visitors to the upcoming Indonesia Cosmetic Ingredients (ICI) and in-cosmetics Asia exhibitions held on October 25-27 in Jakarta and November 1-3 in Bangkok respectively will get the chance to learn how Clariant's leading ingredients will help their formulations achieve outstanding results.

Following dampened demand on

skin and scalp care products due to COVID-induced lockdowns and social distancing, the industry is now ready to bounce back as consumers are once again actively seeking products for healthy skin and hair. At the two upcoming industry events in Asia, Clariant will demonstrate their industry-leading beauty solutions and how they can make formulations work better to tap into the next consumer trend.



## VIEWS AND STATEMENTS



"We have achieved a number of innovative breakthroughs and outstanding achievements through our deep collaboration with SAIC, All these have been possible due to our unwavering pursuit of quality excellence and strict adherence to high standards. The successful application of VORATRON™ MA 8200S high-bonding adhesives to MG MULAN not only represents Dow's promise to be "customer-centric," but also demonstrates Dow's commitment to promoting innovation and development in the electric vehicles industry."

**- Dr. Weiguang Yao, Chief Technology Officer, Dow Asia Pacific**

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"Our novel polyurethane systems solution provides superior aesthetic properties and better industrial hygiene profile vs incumbent resins in use, our new Light RTM application is compatible with MVP's Fast Flow Light RTM using a new 3-component system designed to meter/mix and dispense low to high volumes of resin."



**- Francesca Pignagnoli, Commercial Director Industrial Markets Europe, Dow Polyurethanes.**

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"Advanced recycling is an essential part of the solution for turning plastic waste into materials that can be used for demanding applications. Our position is that advanced recycling has to be done at scale in order to make the process environmentally and commercially viable. I'm therefore delighted to take this first step with Plastic Energy towards building that kind of capability from day one."

**- Rob Ingram, CEO, INEOS O&P Europe North**

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"Earlier this year, INEOS and Pacific Gas launched the two largest VLECs in the world: the Pacific INEOS Belstaff, and the Pacific INEOS Grenadier. Today's signing marks the next stage of our cooperation with Pacific Gas, and we look forward to working with them and the other valuable stakeholders in this exciting project."



**- David Thompson, CEO of INEOS Trading & Shipping**

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"The circular economy will increasingly develop into a critical part of the plastic value chain in India, requiring solutions across the value chain to develop a sustainable world of plastic recycling. As we move towards becoming a value player in the circular economy, we will continue to seek opportunities for future growth. Together with LyondellBasell, we will be on the forefront in India taking significant steps to recycle rigid plastic waste which supports the government initiative to reuse recycled plastic in packaging applications."

**- Rahul V. Podaar, Managing Director of Shakti Plastic Industries**

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## VIEWS AND STATEMENTS



"We are pleased to further strengthen our collaboration with these semiconductor leaders, with whom we have been partners for more than 30 years. These contracts demonstrate Air Liquide's customers' trust in our capacity to provide innovative, reliable ultra-high purity industrial gas production solutions. Buoyed by the digital revolution, Electronics is among the most dynamic growth drivers which will contribute to Air Liquide's strategic plan ADVANCE."

**- François Abrial, Member of the Air Liquide Group's Executive Committee supervising Asia Pacific**



"The ion exchange resin accounts for by far the biggest proportion of the mass of these cartridges. The high level of sustainability of the Scopeblue resins therefore has a major impact on the sustainability performance of consumer-oriented end products such as the aforementioned cartridges. "The new exchange resins help our customers to achieve their own sustainability targets. In addition, this enhanced sustainability can be leveraged as a competitive advantage or advertised as added value,"

**- Neufeind**



"Packaging made from recycled plastic is playing an increasingly important role in cosmetic products. But for us and our peers to push on and achieve the target of viable, fully circular solutions, it is vital to consider the entire lifecycle when creating a new design. This includes polymer production, polymer additivation, printing and design, alongside sorting and recycling. By bringing the expertise of all four partners to the table, the team has successfully created a blueprint for the rest of the industry that enables fast adoption and scale up. We're honored to have its potential recognized with the Sustainable Packaging Award,"

**- Stefan Rüster, a Packaging Sustainability Expert at Beiersdorf on behalf of the collaboration team**



"As we all look for ways to reduce our environmental impact, transparency on product carbon footprints is more important than ever before, The launch of «CliMate» puts us among the forerunners in responding to our customers' growing need for footprint calculations to support their decarbonization goals. «CliMate» will play a fundamental role in Clariant's efforts to increase the climate resilience of its product portfolio. It marks an important step in our sustainability journey and reflects our full commitment to delivering solutions to enable the transition to a climate-neutral economy."

**- Richard Haldimann, Chief Technology & Sustainability Officer, Clariant**



For formulations with a strong emphasis on skin protection, a key attribute to benefit from increased activities following lifting of travel restrictions, Clariant's Eclipsogen series will certainly be key ingredients to look out for. Eclipsogen SX offers unique high UVA protection. Being water-soluble, it is easy to spread on and gives a non-greasy skin feel. Its high compatibility with most cosmetic ingredients and cold processability give formulators the added advantage of easy formulation.

**During the pandemic, many suffered from isolation that led to a poor mood, which is one of the reasons for hair loss. At the trade shows, Clariant will highlight its Prunizen natural active ingredient tailor made for hair and scalp caring. Made from an extract of Prunella vulgaris that is widely used**

**in traditional Asian medicine, the ingredient tackles psychoemotional stress-induced hair loss and stimulates hair, thus helping to restore personal self-esteem and emotional well-being. Prunizen is capable of delivering strong anti-stress effects by inhibiting cortisol production and increasing oxytocin levels, hormones that provide potent physiological anti-stress effects.**

"Our team at Clariant is really excited to be able to present our leading solutions at these two key beauty product industry events, where we could meet our customers face-to-face again. Despite the challenges presented by the pandemic, we have never slowed down our pace of delivering powerful formulation solutions especially those derived from natural resources. Our recent full acquisition of the Brazilian personal care spe-

cialties company Beraca is a solid proof of our commitment to this sector of our business," said Vipul Bhatt, Clariant's Head of Sales & Application Personal Care & Home Care, APAC.

As the trend of adopting natural ingredients in skin care formulations gets ever more popular, finding out about the exact proportion of ingredients may present a challenge for formulators. As such Clariant has introduced the groundbreaking natural formula calculator to help formulators make informed choices on their products. The intuitive digital tool, based on ISO 16128 method, is powered by data from the Natural Origin & Renewable Carbon Indexes of over 800 Clariant and non-Clariant ingredients. It will be one of the highlights of Clariant at the upcoming exhibitions.

Clariant is exhibiting at booths F21-22, F27-28 at the ICI show and booth R48 at in-cosmetics Asia. Visitors are welcome to drop by to learn more about the latest formulation solutions available at Clariant.

Source : Press Release

## BASF Breaks Ground on New Polyurethane Application Development Laboratory in Mumbai

- Strengthen product development capabilities; better meet customer needs with fast and advanced technical service
- Lab housing state-of-the-art application equipment to be inaugurated in 1H 2024
- Focus on local research and development for high-growth industries, including appliances, construction, footwear, furniture, and transportation

**M**umbai, India – October 13, 2022 – BASF broke ground on its new Polyurethane Application Development Laboratory in Mumbai, India. The new lab will house state-of-the-art applications equipment in an approximately 2,000 sq meter space. To be inaugurated in 2024, the lab will strengthen collaboration with Indian customers from high-growth industries, including consumer appliances, construction, footwear, furniture, and transportation. It will offer improved customer support services ranging from troubleshooting to customized formulations, line trials,

and customer training sessions. This will help drive innovation with customers alongside the Creation Center, located at BASF's Innovation Campus in Mumbai.

"As a part of the global innovation network, the lab will enable global and regional BASF teams to work closely with local customers in testing and formulation optimization," said Andy Postlethwaite, Senior Vice President, Performance Materials Asia Pacific. "BASF has been providing technical services to customers, enabling the co-creation of innovative product solutions with its



high-performance materials. With our strength in innovation and comprehensive range of high-quality solutions, we help our customers meet increasingly stringent regulatory standards and optimize product properties for their specific needs at an early stage.”

**“India is one of the fastest growing markets for BASF in the Asia Pacific. The new lab reinforces our commitment to strengthening our product development**

**capabilities and providing fast and advanced technical service for our customers. The investment will enable us better address customer needs for a diverse range of industries,” said Krishnamohan Narayan, Managing Director, BASF India Limited and Head, BASF Group Companies in India.**

Polyurethanes are used extensively in automotive, construction, and consumer applications and in collaboration with leading brands. For example, molded flexible polyurethane foam is the backbone of automotive seating and an essential component of user experience in modern vehicles. Manufacturers of molded polyurethane foam need high-quality products, constant innovation, and access to a broad selection of raw materials to meet the stringent requirements of OEMs. Our lab help tests these foams for comfort, performance, emission reduction, and productivity.

Source : BASF

## Dow Launches the World’s First Recyclable Silicone Self-Sealing Tire Solution

Midland, Mich., – October 26, 2022– Dow (NYSE: DOW) today announced its launch of the world’s first recyclable silicone self-sealing tire solution. The solution has been successfully utilized in Bridgestone’s newly released B-SEALS, a recyclable tire sealant technology. With its new SiLASTIC™ SST-2650 Self-sealing Silicone, Dow is meeting self-sealing tire manufacturers’ demands for high performance and sustainability, while providing drivers and passengers with a lighter-weight, safer, and more durable solution.

“Dow is dedicated to leveraging its long-standing expertise in materials science to improve manufacturer and customer experiences in mobility – and this includes the emerging technology of self-sealing tires, which provide enhanced safety, convenience, and weight-efficiency,” said Jeroen Bello, Global Marketing Director for Mobility and Transportation, Dow Consumer Solutions. “With a growing consumer and enterprise awareness of environmental protection, especially among customers of premium brands, we saw the demand for a more sustainable,

higher-performing solution. Through our collaboration with Bridgestone, Dow has developed a new self-sealing silicone and successfully applied it to B-SEALS. Embracing the philosophy of Seek Together™ and our commitment to sustainability, Dow is looking forward to working with more innovative partners to explore further possibilities of self-sealing tire solutions.”

### **Sustainable Industry Trends Drive New Market Demand**

With growing demands for material circularity and sustainability in the global automotive industry, self-sealing tires are becoming a new solution which enable lighter-weight vehicles. The new silicone sealant technology is designed to form a self-sealing layer on the inner surface of a tire. It provides outstanding sealing performance following puncture, allowing driving long distances without loss of tire pressure.

The sustainability attributes of conventional self-sealing tires is severely limited, resulting in non-recyclable tires, causing extra burden and inhibiting

industrial sustainable development. In addition, the complex high temperature application process and need for extensive laser cleaning of the tire surface prior to coating increase energy consumption and environmental impact during production.

As a global leader in silicone technology, Dow leveraged its material expertise to develop SiLASTIC™ Self-sealing Silicone, which provides customers with a lighter-weight, safer, and more durable solution.

### **Upgraded Performance and Processes Enable Enhanced Sustainability**

Unlike most of the conventional sealants on the market, SiLASTIC™ Self-sealing Silicone sealants can be separated from tires at the end of life, enabling further recyclability of both tires and silicone. Meanwhile, it also removes the need for spare tires, thus reducing vehicle weight, improving vehicle range and fuel efficiency, and enabling more design freedom. With Dow’s innovative technology, SiLASTIC™ Self-sealing Silicone is leading the industry’s transition to a



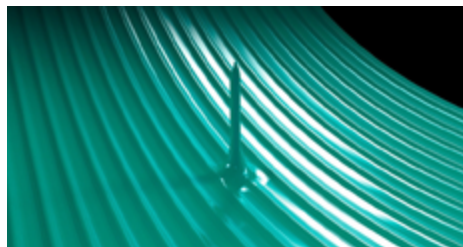
more sustainable future.

**Benefitting from the unique advantages of silicone materials, only a thin layer of silicone sealant is required to achieve puncture resistance, long-term stability and airtightness. Through Dow's exclusive material technology, the sealant's processability is enhanced with reduced cycle time and less processing costs. Tires using SiLASTIC™ Self-sealing Silicone sealants can be easily and quickly manufactured with standard equipment at**

**room temperature without pre-cleaning and pre-compounding.**

**Sustainable Solutions for Low Carbon Mobility**

With SiLASTIC™ Self-sealing Silicone, Dow continues to showcase its commitment to meeting the needs for low-carbon mobility through cutting-edge materials science technologies, and close collaboration with



partners. Dow has implemented a companywide commitment to reduce its net annual carbon emissions. By 2030, Dow will reduce its net annual carbon emissions by 5 million metric tons versus its 2020 baseline, a 15 percent reduction. By 2050, Dow intends to achieve carbon neutrality (Scopes 1+2+3 plus product benefits).

Source : DOW

## Hohenstein India Inauguration of New Leather and Footwear Laboratory

**G**URUGRAM (ivs) How can economic success be linked with product responsibility and more sustainability? More than 300 players and Hohenstein customers in the Indian textile industry accepted Hohenstein India's invitation to attend the Global Sustainability Conference in Gurugram, India, on November 10, 2022, and to obtain possible solutions to this question. The following day, numerous invited guests gathered at the Hohenstein laboratory site in Gurugram for the ceremonial inauguration of a new leather & footwear laboratory, the first of its kind in the global Hohenstein Competence Network.

**True to the motto Local by Global, the agenda of the Global Sustainability Conference was perfectly tailored to the needs of the Indian textile industry. "This event is a great opportunity for the Indian textile industry to benefit from the global expertise of Hohenstein, OEKO-TEX® and Industry experts (from Landmark Group, Colourtex Industries, Shahi Exports, Resil Chemicals and German Environment agency) to optimize their products and processes, and ultimately**

**achieve their sustainability goals in global competition," said a delighted host Vinod Kumar, Managing Director of Hohenstein India & SL. Prof. Dr. Stefan Mecheels, CEO and owner of the testing service provider Hohenstein, welcomed the participants in his opening speech and referred to upheavals: "Times are changing rapidly in the global textile industry - sustainable products and processes are the order of the day. I'm sure you can take away a few things today that will support them in their efforts to become more sustainable." The event focused on the modular OEKO-TEX® system, which provides solutions for the practical implementation of all aspects of sustainable business, presented by Hohenstein experts and specialists from the OEKO-TEX® Association.**

With the ceremonial opening by Prof. Dr. Mecheels, Dr. Christof Mading-

er, COO Hohenstein HTTI and Dr. Helmut Krause, Hohenstein Technical Director Softlines & Shoes, the starting signal was given for the new leather & footwear laboratory at the laboratory site in Gurugram on November 11, 2022. During tours, visitors were able to get a personal impression of the future focus of work on site: testing for harmful substances in accordance with the LEATHER STANDARD RSL and the subsequent certification of leather and footwear products in accordance with the OEKO-TEX® LEATHER STANDARD will in future ensure a lower market risk for brands, retailers and suppliers and comprehensive and reliable safety for consumers.

Source : Chemical Market



# DSM Engineering Materials Launches Breakthrough Online Access to Materials Science Expertise

Gleen (NL), 20 October 2022 - at K2022, DSM Engineering Materials announces the launch of an industry-leading suite of digital tools and online services that provide customers and industry partners with instant or express access to materials science expertise. This broad range of digital-driven solutions, developed through close collaboration with customers, will allow users to accelerate innovation and design processes and is on show at the DSM Engineering Materials Hall 6 Booth B11.

More than ever, material engineers are faced with pivotal technological transitions and shortening product life cycles along with increasing regulatory and sustainability target pressures. As such, the need for timely materials science and application expertise, design support, and technical consultancy has never been greater. Research by DSM Engineering Materials involving over 300 design and material engineers underlines a strong and growing preference for online self-service and instant access to information and data.

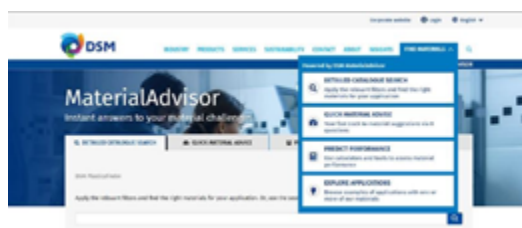
To help its customers and industry partners address their evolving industrial landscapes, DSM Engineering Materials has developed an industry-leading range of intuitive digital tools and services, called the DSM MaterialAdvisor. They were developed through close external partnerships with field experts and customers and evaluated by a review board of over 100 engineers from a range of companies across industries. The key elements of the DSM MaterialAdvisor include:

- Material performance calculators for e.g., stress-strain, creep, fatigue, thermal expansion, moisture diffusion, chemical resistance, and heat aging. An online Failure Modes Advisor also creates awareness of

potential failures and provides mitigation actions. The majority of these tools will be launched at the K-fair; some shortly after.

- ExpertFinder, enabling eligible customers to directly connect with a DSM expert of choice for a consultation. After login, users will be able to select the materials expertise they need and schedule an online intake meeting with the desired expert, or get in touch via email. As such, the ExpertFinder lets customers have in-depth materials expertise as and when they require it.

- Quick-Advisor, providing an initial, quick online material assessment



in the early stages of a design process, based on the answers to eight questions. The tool exists alongside DSM's well-known, data-rich, and property-based product catalog, PlasticsFinder.

- Sridhar Mukthineni, Predictive Engineering Manager at Molex: "For me and my colleagues, this innovative range of digital self-service tools and services of DSM is a game-changer in helping us to select first-time-right materials and test future-proof designs. In a world where innovation cycles continue to accelerate, having in-depth materials expertise and data at our fingertips is crucial. This new digital ecosystem takes online customer centricity to an exciting new level. I eagerly look forward to seeing what comes next!"

Han Nabben, Global Head of Digital

Marketing & Marketing Communications at DSM Engineering Materials, explains: "Our digitization journey started five years ago with the ambition to provide our customers with industry-leading online solutions for materials science and expertise, data and information. This new suite of digital tools and services is our latest step on this journey. In 2023, we plan to expand our suite of material- and part-performance prediction tools further and launch various other exciting digital propositions that will make materials engineering easier, faster, and more effective for our customers."

**Krijn Dijkstra,  
Vice President  
of Research &  
Technology at  
DSM Engineer-  
ing Materials:**

**"More than ever, our industry is stepping on the accelerator pedal of innovation. With a suite of brand-new digital tools, our digital ecosystem will turbocharge our customers' research and development capabilities. These tools, however, will not only facilitate self-service; personal interaction with our top R&T experts is simplified as well. Our new ExpertFinder, which we are currently finalizing, allows customers to easily identify our top experts for each**



given materials-engineering-related challenge, and instantly book an online meeting with them. This hybrid mode of interaction – digital combined with

personal or online combined with offline – allows engineers to interact with us in exciting new ways, to find instant answers to their questions.”

DSM is looking forward to connecting with its customers and partners at K 2022 to share its exciting new innovations in e-mobility, sustainability, and digitalization. Visitors can find DSM Engineering Materials at Hall 6, Booth B11.

Source : Chemical Market

## Clariant Announces Further Investment in New China Flame Retardants Facility for E-Mobility and E and E Applications

- CHF 40 million investment in second line for patent-protected halogen-free Exolit® OP flame retardants at future Daya Bay plant
- Will support rapidly growing demands from China- and Asian-based component manufacturers for innovative & sustainable fire protection in E-mobility, E&E, transportation, 5G communications, infrastructure, and appliances
- Reinforces Clariant's commitment to putting flame retardant production & local teams with technical expertise close to customers' operations

MUTTENZ, October 20, 2022 - Clariant will create a second production line at its new CHF 60 million state of the art facility for Exolit OP halogen-free flame retardants currently under construction in Daya Bay, China. This additional CHF 40 million investment will further expand access to innovative and sustainable fire protection solutions and related technical expertise to support the significant growth of engineering plastics applications in E-mobility and electrical & electronic segments.

“Brands and equipment manufacturers are increas-

ingly switching to non-halogenated flame retardants to meet rising electrification needs and sustainability claims. And we see this in the rapidly growing demand for our Exolit OP flame retardants in China and other Asian markets. Offering local production and the support of technical experts at Daya Bay, alongside the development capabilities at the One Clariant Campus laboratories in Shanghai, will enable us to respond faster to local, regional and global supply needs and also work more closely with our customers to fulfill increasing safety regulations and technical performance requirements in E-mobility,

5G communications, transportation and beyond,”  
comments Jochen Ahrens, Clariant's head of flame retardants business.



The new Daya Bay flame retardant plant will supplement the capacity of Clariant's two Exolit OP plants in Knapsack, Germany and is beneficial to the global customer base. Despite the external challenges of COVID, logistical and supply chain issues, Clariant is still targeting its original timeline, i.e. commencing production in Daya Bay around mid-2023, with the second line due to come on stream within 2024.

Clariant will produce its global range of patent-protected organophosphorus flame retardants on site. The team at the Shanghai One Clariant Campus will support customers in the joint development and in-application testing of flame retarded solutions.

Having closer proximity to component and parts manufacturers is part of a wid-



er commitment to product innovation and addressing sustainability challenges through value chain collaborations. Some Exolit OP products support a Circular Economy for plastics, considering their favorable properties for recycling.

Both new flame retardant production lines will share infrastructure and built-up capabilities in place at Clariant's Daya Bay site. Local resources are being used for the facility, with a high focus on safety. All 500,000-man hours worked

since construction began have been accident free.

Source : Chemical Market

## Advanced Silicone Ink from Dow Addresses Growing Demand for Improved Performance in Textile Applications

**M**IDLAND, Michigan - October 27, 2022 – With the continued global growth of the apparel market, the use of polyester, nylon and blends of these materials with elastane is also on the rise, especially in sportswear and lounge-wear. To support this higher demand for synthetic textiles, Dow (NYSE: DOW) is launching a patented silicone ink – SILASTIC™ LCF 9600 M Textile Printing Ink Base – that can be used for printing on synthetic and cotton fabrics, particularly highly elastic garments.

The increased use of synthetic yarns in recent years has resulted in greater performance requirements on ink chemistries such as durability, elongation and ease of use in highly elastic sportswear. To address these needs, Dow leveraged the exceptional benefits of silicone ink bases with products such as SILASTIC™ LCF 9600 Textile Printing Ink Base and SILASTIC™ 9601 Textile Printing Ink Base.

“At Dow, we continue to support apparel manufacturers in their next performance challenges,” said Isabelle Riff, Dow Global Marketing Leader for Textiles. “Our latest solution, SILASTIC™ LCF 9600 M Textile Printing Ink Base, builds on the strength of Dow’s existing product offerings and is a testament to our dedication to continued innovation for the textile industry.”

**Designed for an increased matte effect and improved hand feel, the patented SILASTIC™ LCF 9600 M offers excellent wash durability, high elongation, very soft low tack touch and avoids the “orange peel effect” on cotton substrates. Additionally, SILASTIC™**

**LCF 9600 M enables safer textile development with its ability to be formulated without the use of PVC, phthalates, solvents, organotins and formaldehyde.**

For those interested in learning more about Dow’s portfolio of silicone inks, including the specifications and performance benefits of SILASTIC™ LCF 9600 M Textile Printing Ink Base, Dow’s Benoit Henault, Technical Service & Development Senior Scientist, will lead a webinar moderated by Isabelle Riff on November 16, 2022 at 11:00 a.m. CET / 3:30 pm IST titled “Advanced silicone printing inks for better performance and textile regulatory compliance.” Registration information can be found here.

Source : Dow

## First All-In-One for All-In-Ones New Surfactant Genapol® Complete Ticks All the Boxes for Automatic Dishwashing Tabs

- Shiny dishware, good drying & low carbon footprint, all from a vegetal origin surfactant
- No more fatty residues – Genapol Complete minimizes a key machine

cleanliness issue with best-in-class All-in-One formats

- High formulation flexibility for environmental label criteria: greater environmental-compatibility with no

aquatox. label

**M**UTTENZ, October 18, 2022 - Clariant introduces a much-needed surfactant boost to the All-in-One automatic dishwashing (ADW) segment



## Price as on October 30, 2022

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

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



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

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



### 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](#)



as brands look to take their highly convenient tablets in a more environmentally-compatible direction. Launched today, vegetal-origin Genapol Complete is the first environmental label-compatible surfactant capable of achieving excellent rinse and very good overall drying performance, cleaner machines and CO<sub>2</sub> product footprint savings.

“The automatic dishwasher segment is responding to shifting consumer preference for products with a lower environmental impact. But, in the absence of high-performing, environmentally-compatible ingredients, the focus has been primarily restricted to packaging-related choices for All-in-One tabs,” comments Hermann Bach, Head of Strategic Marketing and Innovation, Clariant Business Unit Care Chemicals. “Until now, New Genapol Complete can help brands make significant headway on the ingredient front too, to create formulations with excellent cleaning performance and clear sustainability claims. We’re proud to fill this significant gap with this exceptional all-round package.”

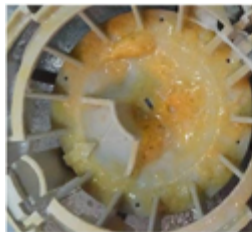
Genapol Complete is derived from coconut oil and is readily biodegradable. It successfully combines a unique set of benefits which will enable formulators and brand owners to achieve high-performing, highly differentiated future All-in-One formats, whether pursuing partial natural origin, compatibility with environmental labels, or lowering the carbon footprint of their final prod-

ucts.

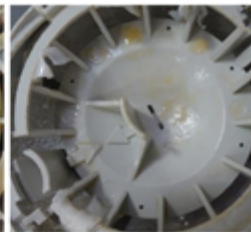
The vegetal-based surfactant delivers excellent rinse performance and very good overall drying performance to formulations, at levels comparable to the current fossil-based surfactant market benchmark and exceeding renewable-based alternatives. At the same time, it stands out for its proven ability to minimize fatty residue deposits in the machine, tackling what is often a major issue when using this particular format.

The differentiation continues into sustainability performance. Genapol Complete targets an area of key consideration in formulating modern Home Care formats – CO<sub>2</sub> reduction in final products. The natural origin of Genapol Complete ensures a substantially lower carbon product footprint for final formulations than is possible with standard surfactants. It achieves CO<sub>2</sub> savings of 30% compared to the best in class benchmark, with no loss in rinse performance, thus providing brands with a significant differentiating advantage for their products.

**Genapol Complete also offers higher flexibility for achieving environmental**



Thick grease build-up in machine sieve after six cycles with best-in-class benchmark (modified fatty alcohol alkoxylate)



Virtually no residues on sieve after six cycles with Genapol® Complete

**label-certified formulations as it has no aqua toxicity label and a lower Critical Dilution Volume (CDV). CDV is one of the main criteria in the evaluation of leading environmental labels. Genapol Complete has a CDV which is 60 times lower than standard surfactants**

**and 3 times lower than the best-in-class benchmark. Clariant's new surfactant therefore has better compatibility with EU Ecolabel, Nordic Swan, Blue Angel and Safer Choice, which sets it apart from benchmark vegetal and non-vegetal origin surfactants.**

Clariant has awarded its EcoTain® label to Genapol Complete in recognition of the surfactant's outstanding sustainability and performance benefits.

Source : Chemical Market

## Evonik to Introduce Next Generation Plastic Solutions at K-Fair 2022

- Sustainable high-performance polymers based on renewable raw materials
  - Performance additives that save resources, improve production efficiency, and protect applications
  - Novel business models to grow the circular plastics market and ensure a better world for future generations
- E**vonik will present its latest sustainable solutions for the plastics and rubber industry during K 2022, 19-26

October in Dusseldorf, Germany. Using examples from its team's children under its novel, 'Next Generation Plastic Solutions' concept, the specialty chemicals company's experts will highlight how they are taking responsibility to ensure a better world for tomorrow's generations



by improving the performance, sustainability, and recyclability of Evonik's products and enabling circular solutions for plastics.

"We sit at the center of so many different industry value chains, so our goal is to help transform these into smooth running circular economies to leave a sustainable world for future generations," said Lauren Kjeldsen, Head of the Smart Materials Division, Evonik who will be a keynote speaker at a kunststoffland NRW event being held as a prelude to K 2022. Evonik's investment commitment of €3 billion by 2030 for the transformation of its portfolio to Next Generation solutions will enable, among other initiatives, more sustainable processes and new business models that pave the way to a fully circular plastics economy.

The world's leading event for the plastics and rubber industry provides the perfect platform to launch several of Evonik's Next Generation Solutions and its "Global Circular Plastics Program". In addition to showcasing its new sustainable high-performance polymers, specialty flame retardant additives, resource saving and eco-friendly silicas and silane solutions. Evonik will also present its advanced solutions for several plastics recycling technologies and the company's development work into new sustainable business models.

**"Demand for circular plastics is now growing faster than the market for virgin plastics, so it was vital for us to leverage our expertise to develop new solutions like our eCO grade products based on circular feedstocks," said Ralf Düssel, Head of the High Performance Polymers business line. "With our Next Generation Solutions, we want to accelerate this growth even further by supporting the development of new business models with our ultimate goal to deliver solutions that increase the circularity of our own products such as for Polyamide 12."**



Evonik established its group wide "Global Circular Plastics Program" to provide a framework to help transform the traditional linear plastics economy, into a fully sustainable circular economy. "The new Center for Circular Plastic Solutions utilizes Evonik's unique position at the center of different value chains to bring together the key stakeholders from governments, universities, industry, consumers and environmental groups to find end-to-end solutions for new sustainable business models", said Patrick Glöckner, Head of "Global Circular Plastics Program".

Another key part of Evonik's toolbox to grow the circular plastics economy is its broad range of solutions for enhancing the recycling of plastics, these include processing additives for defoaming, wetting, de-inking, de-labeling as well as odor control. Evonik's additives and processing aids significantly enhance the cost-effectiveness of mechanical recycling and the quality

of recyclates - enabling high-quality applications to be produced, supporting Evonik's ambition to improve the quality of more than 400,000 metric tons of recyclable plastics by 2025.

Source : Evonik

## Asahi Kasei Demonstrates How Crystal IS UVC Led Technology can be Applied to Achieve Higher Disinfection Efficiency in Water Treatment than Conventional Mercury Lamp Systems

- Klaran™ WR experimental water treatment reactor demonstrated over 75% higher performance than a traditional mercury lamp system in a bacterial performance test.
- The Klaran™ WR reactor provides a

lighter weight, smaller size, longer lasting and safer alternative to mercury lamps.

- Asahi Kasei and Crystal IS advancements in UVC LED technology contribute to sustainability in society

and are an important step towards actualizing a mercury-free world.

Asahi Kasei, a diversified Japanese multinational company, and subsidiary Crystal IS have concluded in a bacterial performance test, an exper-



imental Klaran™ WR water treatment reactor demonstrated over 75% higher performance than a traditional low pressure mercury lamp system using an equivalent power consumption level.

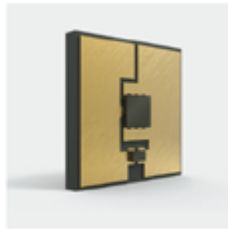
Klaran™ WR is an inline Point of Use (PoU) water treatment reactor (Fig. 1, left) which combines Crystal IS' UVC LEDs based on aluminum nitride (AlN) substrates (Fig. 1, right), with Asahi Kasei's R&D capability in the design and application of optics and fluid-dynamics.

While conventional UV water treatment systems have used mercury lamps as a light source, nations around the world adopted stricter regulations after the Minamata Convention on Mercury became effective in 2017, due to the hazards that mercury poses to health and the environment. UVC LEDs have been developed as a mercury-free light source featuring small size, light weight, and flexibility in design. A key milestone speeding the transition to this modern light source is demonstrating that the disinfection performance, power efficiency and value of the new LED technology can fully meet or exceed the incumbent mercury lamp.

While it is widely understood and accepted that UVC LED's instant on-off capability offers a significant advantage and better alignment with actual consumer use than an "always on" mercury lamp system, a question remained whether an equivalent powered LED system could demonstrate equivalent disinfection performance as a low-pressure mercury lamp system. The experimental Klaran™ WR reactor was developed to demonstrate that UVC LEDs can achieve just this.

A standard Klaran™ WR was enhanced and modified to operate with the same

power consumption level (6 W) as a comparable mercury lamp system (Fig. 2). Both systems were tested using water at a flow rate of 8 liters per minute (2.1 gallons per minute), with a UV transmittance of 97% at 265 nm and dosed



with the addition of approximately 106 CFU/mL of E. coli, a common gram-negative, facultative anaerobic, rod-shaped bacteria, for testing. As there is no

established testing method for this type of comparison, Asahi Kasei devised the testing method and contracted an independent laboratory to perform the evaluation. Water quality samples recorded after 2 minutes steady operation with both systems were compared (Fig. 3), demonstrating how the Klaran™ WR had over 2 LRV (logarithmic reduction value) better performance than the mercury lamp system. Put another way, the Klaran™ WR system reduced E. Coli in the water to 1/100 of the level of the water disinfected by the mercury lamp system.



Fig. 2 The compact Klaran™ WR (right) and a conventional mercury lamp system (left)

Table 1 The experimental Klaran™ water treatment reactor and the mercury lamp system

Product	Power-consumption	Weight	Dia-men-tion

Experi-mental Klaran™ WR	6 W	125 g	φ51 mm × 115 mm
Con-ven-tional mer-cu-ry lamp system	6 W	400 g	φ52 mm × 265 mm

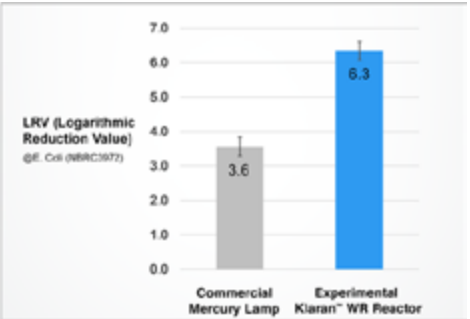


Fig. 3 Disinfection performance of the mercury lamp system (left) and the experimental Klaran™ WR (right)

It is Asahi Kasei's belief that by replacing mercury lamps in water treatment systems with Crystal IS UVC LEDs, it will contribute to the realization of a mercury-free world and meet the global need for energy efficiency and safer water. In addition to water treatment system, Crystal IS will apply the various advantages of UVC LEDs to expand the application of UVC LEDs in surface and air disinfection.

Source : Asahi Kasei



CpHI - Informa Group			
No	Exhibitions	Date	Place
1	<a href="#">CPhI North America</a>	Apr 25-27, 2023	PHL
2	<a href="#">CPhI Worldwide Germany</a>	Oct 24-26, 2023	Messe Frankfurt, Germany
3	CPhI Middle East & Africa 2023	TBD	TBD
4	<a href="#">CPhI China- Virtual CPhI</a>	Dec 20-22, 2022	Shanghai, China
5	<a href="#">CPhI Japan</a>	Apr 19-21, 2023	Tokyo, Japan
6	<a href="#">CPhI Korea</a>	30 Aug - 1 Sept, 2023	COEX, Seoul, Korea
7	<a href="#">CPhI India</a>	TBD	Noida, India
MECS (Coating Show)			
1	<a href="#">Asia Pacific Coatings Show</a>	Sept 06-08, 2023	Bankok, Thailand
2	<a href="#">Saudi Arabia Coatings Show</a>	Feb 13-15 2023	Dammam Saudi Arabia
3	<a href="#">Middle East Coatings Show</a>	June 19-21, 2023	Egypt
4	<a href="#">Coatings For Africa 2024</a>	TBD	Johannesburg, South Africa
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DYE+CHEM			
1	Dye+Chem Morocco International Expo	TBD	Morocco
2	Dye+Chem Sri Lanka International Expo	TBD	Colombo Sri Lanka
3	Dye+Chem Bangladesh International Expo	TBD	Bangladesh
4	<a href="#">Dye+Chem Brazil International Expo</a>	TBD	Brazil
Red Carpet Events			
1	5th Bangladesh Int’l Dyes, Pigments and Chemicals Expo	TBD	Dhaka, Bangladesh
Turkey (Arkim Group)			
1	<a href="#">InterDye Textile Printing Eurasia</a>	Nov 24-26, 2022	Istanbul
2	<a href="#">Paint Istanbul TURKCOAT</a>	Feb 7-9, 2024	Istanbul
3	Paint Expo Eurasia	Apr 09-12, 2024	Istanbul
Other Exhibitions			
1	<a href="#">Paint India</a>	Mar 02-03, 2023	JIO World Convention Center, Mumbai
2	<a href="#">Expo Paint and Coating</a>	July 13-15, 2023	New Delhi, India
3	CIPi	TBD	Mumbai, India
4	<a href="#">Chemspec Europe</a>	May 24-25, 2023	Messe Basel, Switzerland
5	<a href="#">ChemUK Expo</a>	May 10-11, 2023	NEC, Birmingham, UK
6	American Coatings Show	TBD	Indianapolis
7	<a href="#">China Coat China</a>	Dec 06-08, 2022	China Import and Export Fair Complex, Guangzhou
8	Interdye China	TBD	China
9	<a href="#">Paint Expo Germany</a>	Apr 09-12, 2024	Messe Karlsruhe Germany
10	<a href="#">India Chem 2023</a>	TBD	Pragati Maidan, New Delhi



## EVENTS AND CONFERENCES

### SAUDI ARABIA COATINGS SHOW

**Date:** Feb 13-15, 2023

**City:** Dhahran Expo, Dammam

**Country:** Saudi Arabia

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

**Description:** The Saudi Arabia Coatings Show is the only dedicated coatings trade exhibition in Saudi Arabia that brings the coatings industry together. The event creates the perfect environment for manufacturers, raw materials suppliers, distributors, buyers and technical specialists like formulators from the coatings industry to meet face-to-face and do business. That's not all, the event offers the opportunity to gather insight into the latest processes, exchange ideas with industry leaders and build a strong network in the region. For three days, the trade exhibition facilitates serious business and networking opportunities for the coatings community.

### CPHI CHINA - VIRTUAL CPHI

**Date:** Dec 20-22, 2022

**City:** Shanghai New International Expo Center

**Country:** China

**Website:** <https://www.cphi.com/china/en/about.html>

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

### INTERDYE & TEXTILE PRINTING EURASIA

**Date:** Nov 24-26, 2022

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

**Country:** Istanbul

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

**Description:** Interdye & Textile Printing Eurasia has become the new stop of Textile Finishing, Dyeing and Printing Technologies in Eurasia!

InterDye & Textile Printing Eurasia will be open its doors to visitors and exhibitors from all over the world on 24-26 November 2022 at Istanbul Expo Center.

At InterDye & Printing Eurasia that will be gather the industry after 4 years, you will be contact with companies operate in dyestuff, whitening agents, intermediates, auxiliaries, pigments, textile chemicals, instruments & equipment, digital printing technologies, printing and dyeing automation technologies, printing materials, textile printing related patents, technologies and software, etc.



## EVENTS AND CONFERENCES

### PAINT INDIA

**Date:** Mar 02 -03, 2023

**City:** Greater Noida, Delhi – NCR

**Country:** India

**Website:** <https://www.paintindia.in/>

**Description:** PaintIndia is the premier trade fair for the paints, coatings and allied industries in this part of the world, and the third largest show of its kind the world over. It has been in existence for over 25 years now, and has been the fastest growing event globally in this space. It comes from the same lineage as the magazine of the same name, which has been serving the Industry for over 70 years now. More recently, it has been fortified and strengthened globally with the joint ownership between the erstwhile owners and the owners of the European Coatings Show

### CPHI INDIA

**Date:** Nov 29 - Dec 1, 2022

**City:** India Expo Centre, Greater Noida, Delhi NCR

**Country:** India

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

**Description:** India's pharma industry is recognized by its high quality, accessible and cost-effective solutions. The event is known to provide a time efficient and educational environment for buyers and sellers within the Indian pharma ingredients and machinery industry. At CPHI & PMEC India, you will meet the movers and shakers from India's pharma machinery, technology and ingredients industries, giving you a competitive advantage that will help grow your business.

### CHINA COAT CHINA

**Date:** Dec 6 - 8, 2022

**City:** China Import and Export Fair Complex, Guangzhou

**Country:** China

**Website:** <https://www.chinacoat.net/?lang=2&route=homepage>

**Description:** CHINACOAT has been offering a platform for the industry to leverage market potential, pursue business growth and keep abreast of industry trends since 1996. Our 2020 Guangzhou physical exhibition attracted over 22,200 trade visitors from 20 countries/regions, together with over 710 exhibitors from 21 countries/regions. CHINACOAT has also launched an online platform since 2020 due to the pandemic, aiming to bring industry players together and help them to match businesses in an 'Online + Offline' hybrid format. CHINACOAT2022 will be staged in Guangzhou again. Let us partner with the industry to move forward! This year, we continue to offer an Online Show as an additional tool for exhibitors to connect with visitors online, particularly from overseas. It includes all exhibitors who have confirmed to join the Physical Exhibition in Guangzhou this year, as well as companies who are unable to exhibit in Guangzhou and choose to exhibit online only. It will be held alongside the 3-day exhibition in Guangzhou (December 6 – 8, 2022), and will stay online before and after the physical exhibition for a total of 30 days, from November 30 – December 30, 2022.

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



## CAST STEEL GLOBE VALVE

Company Name : Flowchem Industries

Designation : Machinery & Equipments

Address : Survey No. 792, At. Rakanpur, P.O. Santej

### DESCRIPTION (Specification)

SIZE RANGE :	NPS 1/2" - 24" (DN 15mm - 600 mm)
PRESSURE CLASS:	ASME 150 - 2500
END CONNECTION:	FLANGED, WELD
MOC :	CARBON STEEL, STAINLESS STEEL, ALLOY STEEL, NICKEL ALLOY STEEL
OPERATOR :	HAND WHEEL, GEAR, ACTUATOR
DESIGN :	BS1873      TESTING : API 598, BS EN 12266-1



### FEATURES

- A Globe Valve is a type of valve used for regulating flow in a pipeline, consisting of a movable disk-type element and a stationary ring seat in a body. Globe valves are named for their spherical body shape with the two halves of the body being separated by an internal baffle. This has an opening that forms a seat onto which a movable plug can be screwed in to close or shut the valve. The plug is also called a disc. The plug is connected to a stem which is operated by screw action using a hand wheel in manual valves.

## FORGED STEEL LIFT TYPE CHECK VALVE

Company Name : Flowchem Industries

Designation : Machinery & Equipments

Address : Survey No. 792, At. Rakanpur, P.O. Santej

### DESCRIPTION

#### Specification

SIZE RANGE :	NPS 1/2" - 50" (DN 15mm - 50mm)
PRESSURE CLASS:	ASME 800 - 2500
END CONNECTION:	SOCKET, SCREWED, WELD END
MOC :	CARBON STEEL, STAINLESS STEEL, ALLOY STEEL, NICKEL ALLOY STEEL
OPERATOR :	SELF
DESIGN :	API 602, BS EN ISO 15761
TESTING :	API 598, BS EN 12266-1

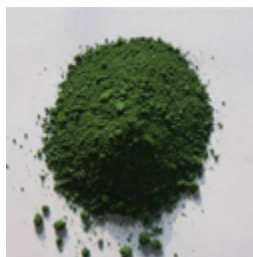


**FEATURES :** • A Non-Return Valve or Check valves are one-way valve normally allows fluid (liquid or gas) to flow through it in only one direction. Check valves are two-port valves, meaning they have two openings in the body, one for fluid to enter and the other for fluid to leave. There are various types of check valves used in a wide variety of applications. Check valves are often part of common household items. Although they are available in a wide range of sizes and costs, check valves generally are very small, simple, or inexpensive. Check valves work automatically and most are not controlled by a person or any external control; accordingly, most do not have any valve handle or stem. • An important concept in check valves is the cracking pressure which is the minimum upstream pressure at which the valve will operate. Typically the check valve is designed for and can therefore be specified for a specific cracking pressure. • A Lift-Check Valve is a check valve in which the disc, sometimes called a lift, can be lifted up off its seat by higher pressure of inlet or upstream fluid to allow flow to the outlet or downstream side. A guide keeps motion of the disc on a vertical line, so the valve can later reseal properly. When the pressure is no longer higher, gravity or higher downstream pressure will cause the disc to lower onto its seat, shutting the valve to stop reverse flow.



## New Chemical Products Listed on Chemical Market Leads Platform

### ACID GREEN 68 / ACID GREEN VCC / 61901-32-4 / 32041216 / VIANA



CAS-Number :- 61901-32-4

Molecular Formula :-

Molecular Weight :- mol/g

Available Qty :- 1000.0000 Kgs

Package Size :- As per customer requirement

Price :- USD 13.0000 / Kgs

Markets :- Dyes and Pigments

**Description:** Apply to wool and poly-amide fiber dyeing, also can be used for leather colour.

### ACID GREEN 20 / ACID GREEN B / 5850-39-5 / 32041216 / VIANA



CAS-Number :- 5850-39-5

Molecular Formula :-  $C_{22}H_{16}N_6Na_2O_7S_2$

Molecular Weight :- 586.51 mol/g

Available Qty :- 1000.0000 Kgs

Package Size :- As per customer requirement

Price :- USD 13.0000 / Kgs

Markets :- Dyes and Pigments

**Description :** This product is suitable for the wool, silk, wool blended fabric, poly-amide fiber of dyeing and printing, also suitable for leather and paper colour.

### ACID GREEN 1 / ACID GREEN PXC / 19381-50-1 / 31051000 / VIANA



CAS-Number :- 19381-50-1

Molecular Formula :-  $C_{30}H_{15}FEN_3NA_3O_{15}S_3$

Molecular Weight :- 878.46 mol/g

Available Qty :- 1000.0000 Kgs

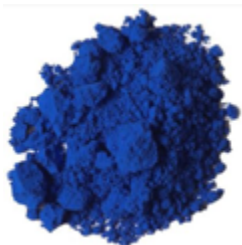
Package Size :- As per customer requirement

Price :- USD 13.0000 / Kgs

Markets :- Dyes and Pigments

**Description :** Mainly used in solar salt industry and wool, silk and nylon fabric dyeing and printing, can also be used for leather dyeing.

### ACID BLUE 193 / ACID NAVY BLUE MTR / 12392-64-2 / 32041215 / VIANA



CAS-Number :- 12392-64-2

Molecular Formula :-  $C_{20}H_{13}N_2NAO_5S$

Molecular Weight :- 416.38 mol/g

Available Qty :- 1000.0000 Kgs

Package Size :- As per customer requirement

Price :- USD 13.0000 / Kgs

Markets :- Dyes and Pigments

**Description :** Used for wool, silk, poly-amide fiber dyeing, also can be used for leather dyeing.



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## Newly Registered Companies on Chemical Market Leads Platform

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**LEMON LUBRICANTS**



**CANGZHOU WANYOU NEW**



**VIANA CHEMICALS**



**VIANA CHEMICALS**



**ARAX CHEMISTRY CO**



**DMRSÜREN CHEMICAL  
IND. TARDE. LTD. CO.**



**HUNAN CHEMFISH  
PHARMACEUTICAL  
SCIENTIFIC CO. LTD**



**JIVIKA CHEM  
INTERNATIONAL LLP**



**DMRSÜREN CHEMICAL  
IND. TARDE. LTD. CO.**

**GULATI ACIDS &  
CHEMICALS**

**INFINIUM PHARMA-  
CHEM PVT LTD**



## Is DNA the Future of Data Storage Video

WASHINGTON, Oct. 31, 2022 — Could the future of data storage be DNA? It's the original format after all, storing the information needed to build every living thing. And it has a handful of qualities that would make it perfect for storing all the digital information in our world. With recent advances in sequencing and printing DNA, it's technically possible, but there are a few obstacles to overcome before this sci-fi-sounding tech can become a household reality. <https://youtu.be/jQOKbkyG1Jg>



Reactions is a video series produced by the American Chemical Society and PBS Digital Studios. Subscribe to Reactions at <http://bit.ly/ACSReactions> and

follow us on Twitter @[ACSReactions](https://twitter.com/ACSReactions).

The American Chemical Society (ACS) is a nonprofit organization

chartered by the U.S. Congress. ACS' mission is to advance the broader chemistry enterprise and its practitioners for the benefit of Earth and its people. The

Society is a global leader in providing access to chemistry-related information and research through its multiple research solutions, peer-reviewed journals, scientific conferences, eBooks and weekly news periodical Chemical & Engineering News. ACS journals are among the most cited, most trusted and most read within the scientific literature; however, ACS itself does not conduct chemical research. As a specialist in scientific information solutions (including SciFinder® and STN®), its CAS division powers global research, discovery and innovation. ACS' main offices are in Washington, D.C., and Columbus, Ohio.

Source : Chemical Market

## Some Sugar-Free Gummy Bears are Laxatives no Really Video

WASHINGTON, Nov. 14, 2022 — Sugar-free gummies are delicious, low on calories and ... technically laxatives? After some Amazon reviews of a major brand's sugar-free gummy bears went viral for all the wrong reasons, the product was discontinued entirely. Reactions producer Andrew dives into the science to figure out how he can make delicious, sugar-free gummies without the uncomfortable side effects. <https://youtu.be/5fCC235Tg-U>



PBS Digital Studios. Subscribe to Reactions at <http://bit.ly/ACSReactions> and follow us on [Twitter @ACSReactions](https://twitter.com/ACSReactions).

The American Chemical Society (ACS) is a nonprofit organization chartered by the U.S. Congress. ACS' mission is to

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to chemistry-related information and research through its multiple research solutions, peer-reviewed journals, scientific conferences, eBooks and weekly news periodical Chemical & Engineering News. ACS journals are among the most cited, most trusted and most read within the scientific literature; however, ACS itself does not conduct chemical research. As a specialist in scientific information solutions (including SciFinder® and STN®), its CAS division powers global research, discovery and innovation. ACS' main offices are in Washington, D.C., and Columbus, Ohio.

Source : Chemical Market



# SK Geo Centric Revealed The World's First "Plastic Waste Recycling Cluster" and New Eco-Friendly Brand "CYCLUS" at K 2022

- Participated in "K 2022," the world's No. 1 trade fair for plastics held in Germany
- Introduced the world's first "plastic waste recycling cluster," targeted for completion in 2025, during the fair
- Launched new eco-friendly brand "CYCLUS" and displayed high value-added products, paper cups made with less plastic, and more
- Supported Busan's bid to host World EXPO 2030 by playing the promotional video and distributing brochures at the fair

SK Geo Centric participated in a global fair for plastics held in Germany, introducing the world's first "plastic waste recycling cluster" to be completed in 2025. The company's new unified brand for eco-friendly products also made its debut.

On October 21, SK Geo Centric announced that it participated in K 2022, the world's largest trade fair for plastics and rubber, which is held in Düsseldorf, Germany, from October 19 to 26. This triennial fair in Germany is known as one of the world's three major fairs for plastics.

Using interactive touchscreen content, SK Geo Centric delivered the information about its recycle cluster in Ulsan to global clients and visitors. SK Geo Centric is currently constructing the world's first comprehensive complex that can utilize three major technologies for the chemical recycling of plastics in one spot.

These three technologies include the extraction of ultra-pure polypropylene by melting waste plastics in solvents, the depolymerization where the polymerized polyethylene terephthalate (PET) is broken down into its original source material, and pyrolysis of waste plastics to refine them into chemical fuel. When the facility is finished, it can dispose about 250,000 tons of waste plastics annually.

At the booth, the company displayed recycled plastic materials in which the technologies of PureCycle Technologies (US) and LOOP Industries (Canada) have been applied. The two companies are in strategic partnerships with SK Geo Centric for the recycling cluster project. Products that were already commercialized, such as L'Occitane's shampoo containers and Evian's water bottles, were also displayed.

Additionally, SK Geo Centric introduced "CYCLUS," which is to serve as both the ESG brand and eco-friendly integrated brand, at the fair. Cyclus means "circulation" in Latin, and it also holds the meaning of "cycle" + "us (or earth)."

The shape of earth in the brand logo means three categories, which are: • Recycled plastic products (Recycle), • Biodegradable materials (Bio), and • Functional materials (Technique). These concepts have also been applied as the three themes for the fair's exhibition. In particular, the company focused on introducing ethylene acrylic acid (EAA), a high-value-added chemical material, at the Technique theme of the exhibition. SK Geo Centric and three to

four other major global chemical manufacturers are responsible for more than 80% of the worldwide supply for EAA, as the material requires high-end technologies for production.

The EAA-coated paper cups showcased by SK Geo Centric at the fair consume only a third of the plastic in their production process compared to the ordinary paper cups coated with low-density polyethylene (LDPE), which means that EAA-coated paper cups could effectively reduce plastic use.

Not only that, but SK Geo Centric also displayed various eco-friendly materials including ethylene acrylate copolymers, the demand for which is expected to increase following the expansion of the recycled plastic market.

In addition, since K 2022 is an international fair that attracts visitors from all over the world, it is a good opportunity to promote Busan's bid to host World EXPO 2030. As a participant of this event, SK Geo Centric played a promotional video and distributed brochures about the bid as an effort to back Busan.

Jang Nam-hun, Head of Packaging Division, SK Geo Centric said, "At this K 2022 fair, we aimed to showcase SK Geo Centric's strong will toward resource circulation, as well as its portfolio of eco-friendly and high value-added products based on the concepts of the new brand, 'CYCLUS.'" He added, "With our technology as the foundation, we will continue to expand our influence and partnerships in the global market."

Source SK Innovation



# SABIC and Japan Steel Works Collaborate on SABIC's TF-BOPE Resin for Flexible Packaging

- Processability of SABIC® LLDPE BX202 resin validated in extensive trials on biax film pilot line at JSW Technology Center in Japan
- SABIC's TF-BOPE resin supports down-gauging and corresponding reductions of up to 50 percent, offering a mono-PE film solution designed for end-of-life recycling in existing recycling streams for flexible packaging

**S**ITTARD, THE NETHERLANDS, November 3, 2022 - SABIC, a global leader in the chemical industry has announced that The Japan Steel Works, Ltd. (JSW) has validated the use of SABIC® LLDPE BX202, a linear low-density polyethylene resin specially developed for processing on tenter frame extrusion equipment for biaxially oriented PE (TF-BOPE) packaging film. The value chain collaboration endorses the use of SABIC's TF-BOPE material on JSW film lines, extends the machine supplier's footprint into the BOPE film market for flexible packaging, and underscores SABIC's role as a forerunner in this market segment.

Sami Al-Osaimi, Executive Vice President Petrochemicals at SABIC commented, "There is a growing market trend and demand for mono-material solutions to facilitate the end-of-life recycling of used packaging products while at the same time supporting the efforts of brand owners and packaging manufacturers to down-gauge their applications and meet ambitious reduction targets.

The partnership with JSW has confirmed our strong commitment to accelerate the implementation of advanced material and equipment solutions for flexible packaging by working with global value chain partners who share our mindset

to reduce, reuse and recycle as we contribute to a circular plastics economy."

Extensive trials with SABIC LLDPE BX202 resin on a pilot film manufacturing line at JSW's Extrusion Technology Center in Hiroshima have demonstrated the excellent performance of the material. As a result, this TF-BOPE grade is currently considered the best-in-class to run on existing tenter frame film lines for BOPE as well as on slightly modified equipment for biaxially oriented polypropylene (BOPP). Toshiyuki Nimomiya, Vice Plant Manager, Hiroshima Plant for JSW explained, "After testing SABIC's LLDPE BX202 material in our Bi-Axial Film Stretching pilot line, we were positively surprised by the performance of it.

Its excellent processability combined with good mechanical properties makes this material a great addition to our recommended materials portfolio for our customers and strengthen our position in the BOPE market. By collaborating with SABIC for use of their overall high-performance

TF-BOPE resin on our advanced film extrusion lines, we are actively promoting the broader implementation of more efficient and sustainable, circular 'mono-materialized' film solutions designed for recycling."

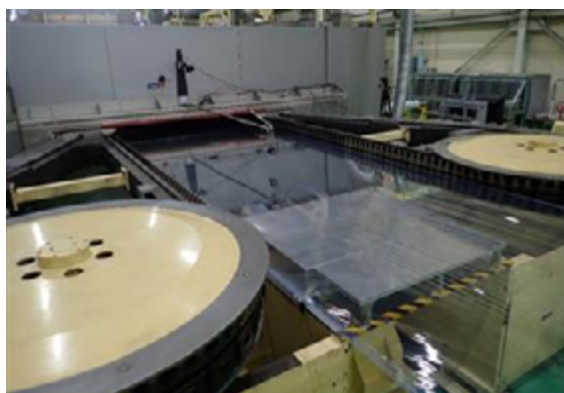
SABIC's LLDPE BX202 material combines outstanding processability with good mechanical and optical properties, including clear transparency and twice the impact strength, puncture

resistance, tensile strength and stiffness compared to conventional blown PE film of equal thickness. This means that SABIC's material offers significant potential for further down-gauging and corresponding reductions in weight, material consumption and carbon emissions. At potential packaging material reductions of up to 50 percent vs. incumbent blown PE film, this also translates into potentially higher line speeds with shorter cooling times, maximizing the productivity of applications.

**Furthermore, the mono-PE material enhances the recyclability of final flexible packaging applications at the end of their lifespan without compromising the integrity of the packaged**

**products such as frozen food, fruit and vegetable packaging applications. SABIC's TF-BOPE**

**polymer is also available in certified circular as well as certified renewable grades from TRUCIRCLE™ portfolio.**



Source : Press Release



# DKSH Strengthens its Healthcare Own Brands Business with the Acquisition of Two Ear Care Brands

**DKSH has signed an agreement to acquire two ear care brands from Noru Pharma for Australia, New Zealand, and selected markets in Asia. The acquisition is in line with DKSH's strategy to grow in higher value-added segments and services and it expands its Healthcare Own Brands business to 14 markets in Asia Pacific.**

Zurich, Switzerland, October 13, 2022 – DKSH has purchased the two ear care brands, Audisol and Audiplugins, from Noru Pharma in Australia, New Zealand, and selected markets in Asia. Audisol's product range addresses daily

needs in ear treatment, while Audiplugins has a complete range of high-quality earplugs in the market. The brands are present in Australia, New Zealand, and Singapore, and DKSH plans to introduce them to other markets over time.

The acquisition is in line with DKSH's strategy of expanding its Healthcare Own Brands business and fits well into previous acquisitions in Australia and New Zealand, strengthening the base for further growth in this region. The acquired portfolio generates net sales of over CHF 2 million and recorded solid growth in past years. DKSH will con-

tinue to outsource production to established manufacturers for this portfolio.

**Bijay Singh, Head Business Unit Healthcare at DKSH, commented: "The acquisition reflects our ambition of further expanding market coverage. Following the acquisition of Hahn Healthcare last year, we are now entering Australia and New Zealand with our Own Brands business. The over-the-counter pharmacy market there shows attractive growth potential."**

Source DKSH

# SANITIZED AG Appoints Dr. Martin Čadek as CTO of its Competence Centre for Technology & Innovation

Burgdorf/CH, 7 November 2022: Swiss-based SANITIZED AG is increasing its innovation expertise by appointing a new CTO, Dr. Martin Čadek, who will oversee global technological activities for the specialist antimicrobial hygiene brand. Dr. Čadek will lead the company's Competence Centre for Technology Innovation and will focus on breaking new ground to develop innovations in sustainability.

Dr. Čadek is a graduate physicist with a master's degree in polymer science with many years' experience in the industry working with polymers, fibres, industrial textiles, and extruded polymers. He is joining SANITIZED AG from his most recent role as Managing Director for German subsidiary the Flint Group. His previous roles include the Global Head of Innovation for Energy and Polymer

Systems at Evonik/Orion, the Head of Extrusion Technology Business Unit in Europe for Emerell AG, and work with the SGL Group.

The Competence Centre for Technology & Innovation

The Competence Centre for Technology & Innovation will provide services to all three of SANITIZED's business units: Textiles, Polymer Additives, and Coatings and Preservation. It will be built on top of SANITIZED's TecCenter for Analytics, Microbiology and Applications and its regulatory department.

Michael Lüthi, CEO of SANITIZED AG, is delighted to welcome such a highly experienced new member of the SANITIZED team: "Martin Čadek understands, lives and breathes our philosophy of thinking and acting with

customers and solutions in mind, where sustainability plays a crucial role."

**Dr. Čadek believes that it is important for SANITIZED's customers to benefit from the company's technological and innovation expertise in more ways than just products. "The team at SANITIZED AG also provides the industry with reliable and expert assistance in using our technologies," explains the new CTO, who places great value on long-term collaboration with customers and partners. Dr. Čadek is also keen to establish fresh long-term relationships with new customers and partners to bring the benefits of working with SANITIZED to a wider market.**

Source : Press Release



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