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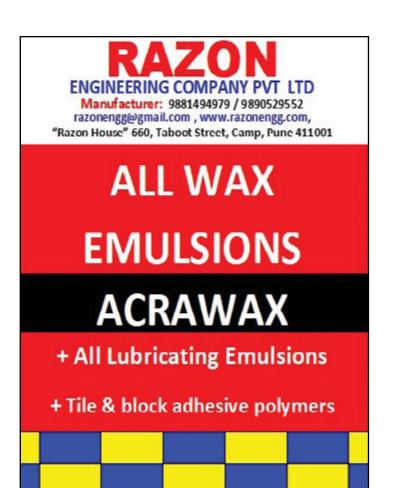
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Carboxylic Acid [5CTA]	108-42-9
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• 2-Amino-4-methoxy-6-methy	-
1,3,5-triazine [AMT]	66309-83-9
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Hydantoin [DBH]	1668-54-8
5-tert-Butyl-m-Xylene	98-19-1
1-Chlor-2-methoxy	
naphthalene	13101-92-3
<ul> <li>2-Bromo-6-methoxy</li> </ul>	

	one [EMPO)	766-36-9
	Acetonitrile	75-05-8
	<ul> <li>4-Fluorophenol</li> </ul>	371-41-5
7	Benzethonium Chloride (BTC)	121-54-0
	2-Amino-5-chlorobenzoic Acid [ACBA)	635-21-2
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Bromo Benzene

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

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



# KRISHNA SOLVECHEM LTD.

CHEMISTRY WITH COMMITMENT

B/503, Sahayog, S. V. Road, Kandivali (W), Mumbai 400 067. INDIA

Tel.: +91-22-6123 0222 • Fax : +91-22-2862 4110 Email : atul@kscl.co.in / days@kscl.co.in

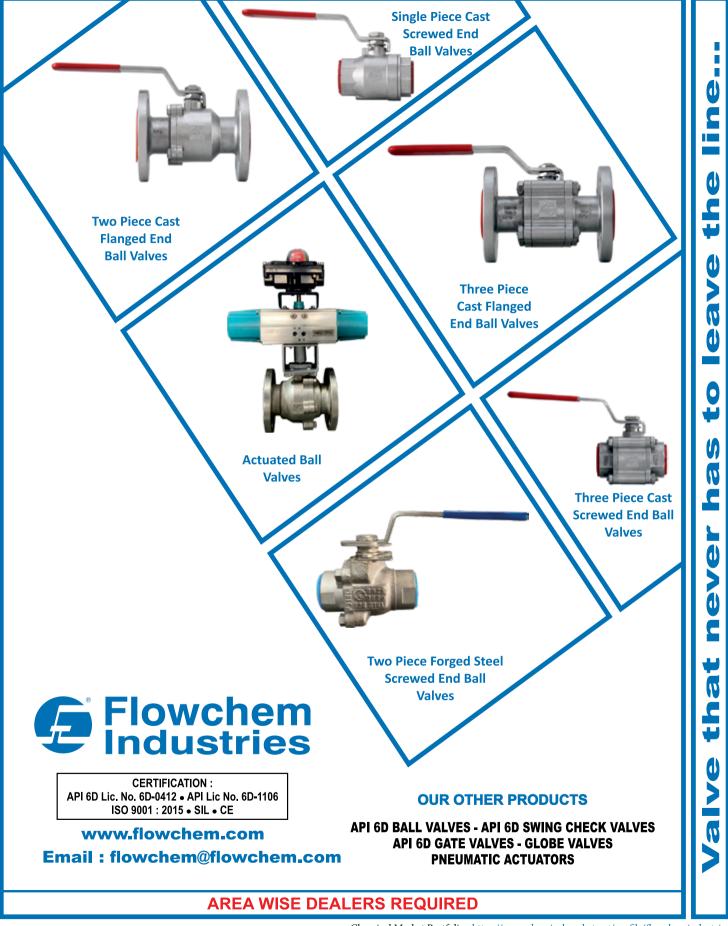
Website: www.kscl.co.in

 $Chemical\ Market\ Portfolio: \underline{https://www.chemicalmarket.net/profile/krishnasolvechem}$ 









Chemical Market Portfolio: https://www.chemicalmarket.net/profile/flowchemindustries









An ISO 9001:2015 Certified Company

Manufacturers, Exporter & Importer

# **Industrial Salt**

**Application:** Detergent, Soda Ash, Dyeing, Textile, Other Chemicals

# **Edible Refine Salt**

**Application:** Edible Refinery, Soda Ash Refinery, Pharma & Chemical

# Raw Salt/Crystal/Coarse Salt

**Application:** Edible Refinery, Soda Ash Refinery, Pharma and Other Raw Material for Chemical

# Sodium Chloride NACL 99% (Above 94% to 99.5)

# Sodium Sulphate by Product

# **Tablet Salt** (Use for Water Softening)

# Head Office: SKC INDUSTRIES LLP

13,1st Floor, SwamiNarayan Mandir Bulding, Plot No.37, Sec-9, Opp Jai Residency, Gandhidham-Kutch 370201 Gujarat-India.

Email: naran@skcind.com

Web: www.skcsalt.com, www.skcexport.com

**Logistics Marking:** 

Nearest Sea Port: Kandla and Mundra(Gujrat-India)

Airport: Ahmedabad-(Gujarat-India)

For information & Inquiry:

Email: marketing@skcind.com

**Product Inquiry:** 

Cell No: +91-9825788223 (Whatsapp)

Cell No: +91-9081099950









# **Buy Enquiries**

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

Details : Required Rate with MSDS and Other Certificate

Swapnil Salunke - Zen Engineering

Plot # A-269, Road # 33 A, Wagle Industrial Estate,

Near ESIS Hospital, Thane (West)-400604.

Maharashtra, INDIA

Web: www.zenengineering.net

Email: <u>purchase@zenengineering.in</u> Switchboard.: +91-989-283-1911

Product Name	Qty	Grade
ISO Propyl Alcohol	1 Tonnes	Industrial

Details: Need Quote for IPA. Please reply via email/phone.

Rajkumar Mandal

Boisar, Maharashtra, India Email : <u>info@myteepol.com</u>

Mobile: 9967800437

<b>Product Name</b>	Qty	Grade
Strontium carbonate powder imported	1000 Kgs	Industrial
Metaldehyde	100 Kgs	Technical
Azidotetrazole	100 Kgs	Technical
Strontium carbonate	1000 Kgs	Technical
phenolic resins	1000 Kgs	Technical

Details: we are interested to buy strontium carbonate powder imported solvay material pl contact 9443164779 pyrocheme@gmail.com

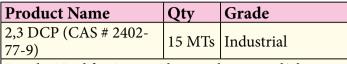
we are interested to buy metaldhyde and Azidotetrazole in bulk for industrial applications pl contact 9443164779 we are interested to buy strontium carbonate powder imported

Sunairaja. t

Sivakasi, Tamil Nadu, India

E-mail: pyrocheme@gmail.com Mobile: 9443164779





Details: Need for August. Please reply via email/phone.

Dr. Deepak Birewar

Inventys Research Company Email: <u>dBirewar@Inventys.in</u> Mobile: +91-961-966-6333

<b>Product Name</b>	Qty	Grade
Detergent and Home Care Product	Contain- er Truck load	

Details: Prefer direct manufacturer or exporters only.

Jagdish Thakral

Shri Hariram Export Pvt. Ltd.

Email: jthakral@kailashgroup.com (preferred)

Phone: 0712-273-4041

<b>Product Name</b>	Qty	Grade
Pharma Intermediates	ı	

Details : **Arnish** 

Chemox Chemopharma Industries Email: <u>vekariya.arnish@ymail.com</u> Mobile: +91-990-908-3070 (preferred)

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

Details: No recycled or recovered Acetonitrile, only

fresh material please.

Mr Kunal Kamat (Procurement Agent)

**Kunal Chemicals Trading** 

Email: kunalchemicaltrading@gmail.com

Mobile: +91-932-001-3358

<b>Product Name</b>	Qty	Grade
CAS NO 60-00-4 - EDTA Acid	1 Tonnes	Industrial

Details: Please reply via email/phone

**Parthiv** 

**Shiv Chem Industries** 

Email: chelateshivchem@yahoo.co.in

Tel.: 079-2282-3447

<b>Product Name</b>	Qty	Grade
Sofosbuvir and Daclatasvir		
371 D . 1		

Nirav Patel

Indamed Pharmaceuticals Pvt. Ltd. Email: <u>indamedpharma@yahoo.co.in</u> Mobile: +91-968-787-7922 (Prefered)





# **Buy Enquiries**

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<b>Product Name</b>	Qty	Grade
Nigrosine Black Dyes	1 Can	Industrial

Details : Gary Brent

Auckland, New Zealand

Email: gary.brent@washtech.co.nz

Mobile: +64-2195-5732

<b>Product Name</b>	Qty	Grade
n Butyllithium 23%	5 T	Chemical

Details:

**Sook Young Yoon** 

Gyeonggi-do, South Korea Email: <a href="mailto:syyun@jtcs.co.kr">syyun@jtcs.co.kr</a> Mobile: +82-318-016-8258

<b>Product Name</b>	Qty	Grade
Potassium iodide-IP-BP- USP	1KG	Virgin Pure

Deepak Kala

Hyderabad, Telangana, India Email : <u>deepak.kala@vbshilpa.com</u>

Mobile: +91-706-055-5929

<b>Product Name</b>	Qty	Grade
CAS NO 112-12-7 FISCHER'S BASE	2000 Litres	Any

Details: Required on regular basis. Min Qty 2000 Ltr.

Mr. Jitendra Bhalgat

Ahmednagar, Maharashtra, India Email: jbhalgat11@gmail.com

Tel.: 9422220871

<b>Product Name</b>	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

<b>Product Name</b>	Qty	Grade	
Toulene	5000 Kgs	Industrial	
Details: Kindly arrange to send us quotations			

Santosh Taksale

Pune, MH Mobile: 9028843799

Email:santosh.taksale@manikchandpackaging.com

<b>Product Name</b>	Qty	Grade
Triethylsilane 98%	500 gms	Industrial
- 11	_	

Details:

**Honest Traders (India)** 

Email: <a href="mailto:honestchem3@gmail.com">honestchem3@gmail.com</a>
Mobile: +91-635-177-0203

<b>Product Name</b>	Qty	Grade
Naphthalene Powder	1	
Para Di Chloro Benzene		
Powder		
Camphor Powder		

Details : **Xavi** 

Gabhri Pharma (Manufacturer)

E-mail: fragrancevalley1992@gmail.com

Mobile: 9847687718

<b>Product Name</b>	Qty	Grade
Resorcinol	-	
Triethyl amine		
Paraformaldehyde		
Formaldehyde		

Details:

**Ashok Patil (Manufacturer)** 

DD Patil Chemicals, Amalner Dist Jalgoan

Email: ddchemicalsales@gmail.com

Mobile: +91-735-022-6099

Product Name	Qty	Grade
Pine Oil	-	
Emulsifier Alfox200		
various TOP		

Details: I need total raw materials for mfg. of Detergent

powders, Floor cleaning Liquid etc.

Arvindbhai Vadhadia

NewCera Minechem (Manufacturer) Email: newceraminechem62@yahoo.com

Mobile: +91-9429460123

Product Name	Qty	Grade
caustic soda flakes 98% sodium hydroxide	500 Kgs	Chemical

Details: Need this 5 Tonnes.

EMEL KILINÇ Gaziantep, Türkiye

Email: <u>satinalma@toren.com.tr</u>
Mobile: +90-535-454-0331





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luct Name Qty Grade

<b>Product Name</b>	Qty	Grade
CAS NO 112-12-7	2000 Ltr	Any
FISCHER'S BASE	2000 Lt1	Ally

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

Jitendra Bhalgat

Ahmednagar, Maharashtra, India Email: jbhalgat11@gmail.com

Mobile: 9422220871

Product Name	Qty	Grade
Sodium Hypochlorite	500 Kgs	Industrial

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

Rajshree Varshney Mumbai, Mh

Mobile: + 917520945076

Email: rajshree.varshney@gmail.com

Product Name	Qty	Grade
Tera Hydrofurin (thf)	-	

Details: We are Trader and Deal in api and solvents

Rajiv Kapoor

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**Global Enterprises (Traders)** 

Mobile: 8866506582

Email: globalenterprisespurchase@gmail.com

Product Name	Qty	Grade
Modified Starch	1 Tonnes	Technical

Details: for our won purpose

Purushotham M

Salem, Tamil Nadu, India Mobile: +919443326055

Email: sreestarch@gmail.com

<b>Product Name</b>	Qty	Grade
Trifluoromethyl benzene	300 Kgs	Industrial
(CAS 98-08-8)	Juu Kgs	maustriai

Details: for our won purpose

Chetan Lakhpati

Thane, Maharashtra, India

Mobile: 9920337763 Email: clakhpati@gmail.com



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<b>Product Name</b>	Qty	Grade
QUARTASEPT (CMD 14-005)	500 Kgs	Chemical

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

**Kishor at Moglix** 

Noida

Mobile: 96503-64721

Email: Kishor.tarafdar@moglix.com

<b>Product Name</b>	Qty	Grade
DIRECT BLUE-71	200Kgs	Industrial

Can blue 71 pass EN71 certification? How much does it cost?

Email: steven@chifra.com.tw Mobile: +88-691-352-0913

<b>Product Name</b>	Qty	Grade
Fast Red KD Base (HS Code	2 t every month	
- 29225014)	2 t every month	
Napthol AS-LC ( HS Code -		
32041929)		
Napthol ASIRG ( HS Code -	500 kg every	
29242990)	month	
Dimethylsuccinylo Succi-		
nate (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
D-4-11-		•

Details:

**Pravin Iyer** 

AT Pigments (Manufacturer)

Email: pravin.iyer@atpigments.com

Mobile: 9898507767

<b>Product Name</b>	Qty	Grade
Sulphur Granules	30 Tonnes	Industrial

Details:

**DERRICK MWANSA** 

Chingola Central, Chingola, Zambia

Mobile: +26-097-759-2183

Email: derrick.mwansa@rgpm-group.com





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# **Buy Enquiries**

Product Name Qty Grade
Titanium dioxide

Details: P. DO. SHAH

**SEMITONE INDIA (Manufacturer)** 

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

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

Product Name	Qty	Grade
Glacial Acetic Acid	30 Kgs	

Details: Please send us the below information of this product with COA / spec If you have any query then feel free to contact me directly. Thank you in advance, and look forward to receive the requested information from you. Abhishek Iha (Executive Purchase)

Abhishek Jha

Valsad, Gujarat, India

Email: pur5@triveniinterchem.com

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# **Sales Enquiries**

<b>Product Name</b>	Qty	Grade
Barium Titanate		
Calcium Titanate		
Lead Titanate		
Lithium Titanate		

Details:

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P. DO. SHAH

**SEMITONE INDIA (Manufacturer)** 

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

<b>Product Name</b>	Qty	Grade
Industrial Label Gum		
38051010		

Details : **Janardhan** 

Katyayani Polymers (Manufacturer) Email: <u>katyayanipolymers@gmail.com</u>

Mobile: +91-995-990-0375

<b>Product Name</b>	Qty	Grade
Purified Terephthalic Acid	-	Trader

Details:

Rakesh Bachani

**Royal Chemicals (India)** 

Email: info@royalchemindia.com

Mobile: +91-922-150-3305

Product Name	Qty	Grade
Toluene c9 and solvents	-	Trader

Details: We are Trader and Deal in api and solvents

Rajiv Kapoor

**Global Enterprises (Traders)** 

Mobile: 8866506582

Email: globalenterprisespurchase@gmail.com

Product Name	Qty	Grade
Reactive Dyes	Bulk	Distributor
Ramazoles		
Vat Dyes		

Details:

M/s Diamond Dyes Industries Pvt. Ltd.

102, Nain Krupa, 1st Floor, 118/112, Kazi Sayed

Street, Masjid (West), Mumbai - 400 003

Tel: 022-2340-2754

Mobile: (Bharat Bhai) 093241-36095

Dilip: 093242-48986

Email: bharatd18@gmail.com

<b>Product Name</b>	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 Di-		
rect Green		
Solophenyl Blue BL 200		
Chemicals		
3 C 1 3 C 1		

Mitesh Modi

Contact : 9830090208, 9339459367 Email : <u>amritdyes1952@gmail.com</u>

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<b>Product Name</b>	Qty	Grade
Alfa Napthols		
Diethyl Meta Toluidine		
2 Nitro Di Methyl Tere-		
phthalate		
5 Nitro 2 Amino Phenol		
Aceto Acetanilide		
Meta Phenylene Di-		
amine		
Ortho & Para Anisidine		
Dye Intermediates		Broker
Chemicals		Broker
Dataila		_

Details

M/s H. Rameshkumar

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

Tel: 022-2344-4365 Mobile: +91-93231-36833

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

Details : **Ashok Patil** 

DD Patil Chemicals, Amalner Dist Jalgoan

Email: ddchemicalsales@gmail.com

Mobile: +91-735-022-6099

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

Details:

Dinesh Gupta

HARESH ENTERPRISES (Wholeseller)

Email: <a href="mailto:setuenter@yahoo.co.in">setuenter@yahoo.co.in</a>
Mobile: +91-9824200441

<b>Product Name</b>	Qty	Grade	
Ammonium Sulphate			
caprolactum grade			
Details:			
36 11			

Manish

SM Dharani Chem Pvt Ltd( Manufacturer)

Email: manish@smdcpl.in Mobile: 9879408765

<b>Product Name</b>	Qty	Grade
Sodium Bi Sulphate	-	-
	•	^

Details:

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

Email: nitish2846@gmail.com

<b>Product Name</b>	Qty	Grade
Plastic Bottles	•	
Carboys		
M.S. Capsules		
Bungs		

All Types of Sealing Machines

Details:

M/s Samir Brothers

Ashok Niwas, 2nd Floor, Daulat Nagar, Road No. 3,

Borivali (East), Mumbai - 400 066. Tel: 022-2808-1542 / 022-2805-9475 /

022-2855-8035 (R)

Contact For: Plastic Bottles, Carboys, M.S. Capsules, Bungs & All Types of

**Sealing Machines** 

5 0 Walling 11 2 Wolfman 12 Wolf 12 Wo		
Product Name	Qty	Grade
Red 195	-	-
Red 196		
Red cd		
Orange me2rl		
Orange 72		
Fast Magenta		
Yellow FG		
Blue me2rl		
Blue gg		
Blue me2gl		
Blue 222		
Yellow ME4GL		
Yellow H7GL		
Yellow 95(P6GS)		
Yellow 37(GL)		
Yellow HE6G		
Red (P4BN)		
Red HE88		
Red HE7B		
Details:		
Jitendrabhai		







Mobile: +91-9904063662

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# **Sales Enquiries**

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Qty	Grade
	Qty

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

**Pravin Iyer** 

AT Pigments (Manufacturer)

Email: pravin.iyer@atpigments.com

Mobile: 9898507767

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

Details: R P Agrawal

Texochem Industries (Manufacturer)

Email: info@texochem.com Mobile: 919820217042

Product Name	Qty	Grade
Glycerine	12 Tons	Manufacturer

Details:

Tajinder Goyal Softex Surgial

Email: Tajinder.goyal@gmail.com

Ph: +91-980-555-6667

<b>Product Name</b>	Qty	Grade
Pharma Intermediates	-	
Details ·		

Arnish

**Chemox Chemopharma Industries (Manufacturer)** 

Email: vekariya.arnish@ymail.com

Mobile: +91-990-908-3070

<b>Product Name</b>	Qty	Grade
KAILASH brand deter-		
gent paste		
detergent round tablet		
home care products for		
cleaning purpose		

Details:

**Jagdish Thakral** 

Shri Hariram Export Pvt. Ltd. (Manufacturer)

Email: jthakral@kailashgroup.com

Phone: 07122734041

<b>Product Name</b>	Qty	Grade
Polyacrylamide		
Hydrochloric Acid		
Indutrial Safety Mask		

Details: Bulk requirement

**Amit Dave** 

Amit International (Distributor) Email: amitintl@zoho.com Mobile: 9821323563

<b>Product Name</b>	Qty	Grade
Hydrazine Hydrate 80%		

Details: we have stock of our own imports

Anamika soni

Punjab Chemicals & Crop Protection Ltd

(Manufacturer)

Email: anamika@punjabchemicals.com

Mobile: 9867724805

<b>Product Name</b>	Qty	Grade
EDTA Tetra Sodium		
Liquid	_	

Details: Parthiv

Shiv Chem Industries (Manufacturer) Email: chelateshivchem@yahoo.co.in

Tel.: 079-2282-3447

Diflubenzurone 250 Kg 500 Kg	Grade
300 Kg	

Details:

**CHANDRESH HAPANI** ANIMED (Distributor) Email: animed6@yahoo.co.in

Mobile: 9830175616







Grade

# **Sales Enquiries**

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Qty

Product Name	Qty	Grade
Sulphur Powder		
Sulphur Roll		

Details: we are manufactuers of Sulphur powder and

Sulphur roll Adesh

J.K.Industries, Deoband (Trader) Email: jkind.dbd@gmail.com Mobile: 9412113914

Product Name	Qty	Grade
Mercuric Chloride	-	

Details:

Surendra Agrawal

**Ankur Chemicals (Manufacturer)** Email: ankurchemical@yahoo.com

Mobile: 09352500959

<b>Product Name</b>	Qty	Grade
Personal Care		
Home Care		
Detergent raw materials		
APG		
Decyl glucoside		
Coco Glucoside		
Lauryl Glucoside		
Saurasoft 612 (Lipid Layer		
Enhancer)		
MES Liquid (Methyl Ester		
Sulphonate)		
PEG 400		
Defoamer		
Emusifier		
Wetting Agent		
Buffering agent - pH		
stabiliser		
Klenz B - Disinfectant		
Cleaner		
FW 351 - Glucoside based		
fruit and vegetable wash		
Saurawash 201 (Concen-		
trated Glucoside based		
antimicrobial Hand		
Wash)		
Details:		
Prashant Satpute		

Sauradip Chemical Industries Pvt. Ltd. (Manufacturer)





Details: **Prakash Patel** 

**Product Name** 

Solvent Dyes (solvent yellow 82 & orange 62)

NAVDURGA DYES & CHEMICAL (Manufacturer)

E-mail: navdurgadyes@gmail.com

Mobile: 9022673905

Product Name	Qty	Grade
Sanitizing Alcohol Swabs 70 percent IPA / 67-63-0 / 3005 / Isopro- pyl Alcohol / 70 percent / Medical		Medical

Details:

Sameer Makhija

Mak Medicals Private Limited (Manufacturer)

Email: makmedicalsltd@gmail.com

Mobile: +91-987-140-8777

Product Name	Qty	Grade
Inorganic Salts		

Details:

Santosh Thakre

S S Fine Chem Laboratories (Manufacturer) Email: ssfinechemlaboratories@gmail.com

Mobile: +91-986-777-4142

<b>Product Name</b>	Qty	Grade
Borax	Bulk	

Details:

Sandip Agarwal (Distributor) Supreme Borochem Private Ltd

E-mail: sandip@sbpl.co.in Mobile: +91-983-100-1334

<b>Product Name</b>	Qty	Grade
General Tablets and		
Liquid Syrup		
NSAIDs		
Cough syrup		
Narcotics formulation		
Antibiotics		

Details:

**Niray Patel** 

Indamed Pharmaceuticals Pvt. Ltd.

(Manufacturer)

Email: indamedpharma@yahoo.co.in

Mobile: +91-968-787-7922

Mobile: 09769015004

Email: prashant.satpute@sauradip.com

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Editor:	Online Subscription:		Malad (West), Mumbai 400064.						
Rajiv Parikh	www.chemicalmarket.net/magaz	rine/subscribe	Mobile: 91-87798-30330						
Content:	<b>Leads Platform Subscription</b>								
Pranisha P. Jadhav	www.chemicalmarket.net/leadsp	<u>olatform</u>	DCM Media Office Address:						
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Pranisha P. Jadhav	Contact Information:								
a.mona i i jaanur	Tel: 91-981-9644-048								
	91-877-9830-330								
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Email: info@chemicalmarket.net





info@chemicalmarket.net

# **CHEMICAL MARKET**

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

# It's the festive season all around and then there is market turmoil and rising dollar!

Hello everyone, this time around we have an early festive season and things are brutal at some parts of the world like the war torn Ukraine and the Wall Street turmoil. We being in India are striving hard to make sure we don't get affected by all of this however the rising dollar does make things difficult for importers. The South American country leader's claims that the government in the US is responsible for the rising inflation and the declining of the world economy. They are

causing the world economy to tumble by increasing the interest rates in the US which causes more pain and rising dollar value with the rest of the world currencies. They also blame that the US is responsible for the war in Ukraine. Well The US always is at the forefront of each controversy, argument or the world disorder and the only reason is because they control the world currency.

Hope things get

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back to normal with time but as per my understanding this will take a little longer than expected.

We have been trying to connect with all of you since the past couple of months and trying to bring you all, on our global LEADS PLATFORM. We have also released a few festive offers where you can advertise in our magazine (a quarter page ad) completely FREE. Usually there is no free lunch however in this case it is actually FREE for 6 months for the first 100 customers. However, the only condition is to either signup for

our magazine subscription using our online mode of payment which is only Rs. 600/- or \$11.99 per year or Upload your products on our LEADS PLATFORM. I think, if you advertise a quarter page ad in our magazine for free for the first 6 months, it is ok to pay at least Rs. 600/- per year as magazine subscription cost and also if you want the full benefit of the ad, it is recommended to upload all your products on our LEADS Platform. You pay for the Leads Platform membership only after

you get any leads/ enquiries on our portal for any of your products. So, please upload your products online on our Leads Platform. It's like if you want to win the race, you need to take part in the race.

On another note, we are also bringing you the much awaited Social Media Platform for the chemical industry called #Interactions. This will allow you to send messages to someone of the

Leads Platform with a @ tag. You can share images and pdfs on the same post by commenting on the post. More details will be released in a few weeks.

-Rajiv Parikh





# **Research Reports Abstracts**

# **Global Lithium Iron Phosphate Battery Market to Reach \$15.09 Billion by 2030**

UBLIN, Sept. 21, 2022 /PRNewswire - The global lithium iron phosphate battery market size is expected to reach USD 15.09 Billion in 2030 and register a revenue CAGR of 5.3% over the forecast period, according to latest report. The market is anticipated to be driven by the growth in demand for these batteries from various end-use industries, such as marine, automotive, and healthcare.

The batteries are used extensively in electric vehicles due to their durability and safety features. Additionally, firms are investing substantially in research and development activities related to batteries with a view to expand their product portfolios. The rising focus on research and development is expected to create growth opportunities for market players operating in the space.

High demand for lithium iron phosphate batteries in energy storage devices and electric vehicles is projected to propel the growth of the lithium iron phosphate battery market. The continuous research and development activities undertaken by key manufacturers to develop advanced batteries are also expected to fuel the demand for these batteries in the next few years.

In recent years, the adoption of electric vehicles has been on the rise globally as countries look to reduce their dependence on fossil fuels and curb emissions. This has resulted in increased demand for batteries, with lithium-ion batteries being the most popular type. Lithium iron phosphate (LFP) batteries are a type of lithium-ion batteries that have several advantages over other types, such as longer life span and higher safety.

The increase in global investments in renewable energy projects is one of the major factors driving the growth of the lithium iron phosphate battery market. The governments of various countries are promoting the use of renewable energy sources to reduce dependency on

fossil fuels. This is expected to result in increased demand for lithium iron phosphate batteries from the renewable energy sector.

In 2020, Asia-Pacific accounted for the largest revenue share of approximately 45.2% in the global lithium iron phosphate battery market. The robust presence of manufacturing firms and the rise in demand from end-use industries are some of the major factors driving the market in the region. Additionally, the Asia-Pacific is anticipated to be the fastest-growing regional market over the forecast period owing to the expanding automotive industry and growing demand for electric vehicles in countries. such as China and India.

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

If you want your report abstract to be published please contact info@chemicalmarket.net

# Spray Adhesives Market valuation is Poised to Exceed USD 6.38 Billion by 2029, Bolstered by High Growth in Transportation and Construction Industry, the Market is All Set to Achieve Significant Growth Rates -**Exactitude Consultancy**

The growing acceptance of spray adhesives over conventional glues and tapes has increased the research and development activity for spray adhesives in the market. High demand of spray adhesives in the end-use industries is responsible for driving global spray adhesives market.

PUNE, India, Sept. 21, 2022 /PRNewswire/ -- Spray adhesives, also known as sprayable adhesives, are adherents provided in the aerosol form. These adhesives provide good adhesion with fast and aggressive tack. Spraying increases the speed of application with minimum wastage due to controlled spray mechanism. The spray adhesives market in







the furniture industry is estimated to witness the fastest growth during the forecast period.

The global Spray adhesives market size stood at USD 3.22 billion in 2021. The market could surge to USD 6.38 billion by 2029 at 4.8% CAGR during the forecast period.

The demand for spray adhesives has increased owing to growing technological advancements and increasing demand from applications, namely, architectural, appliances, automotive, furniture, agriculture, construction, and earthmoving equipment, general industrial and others.

Partnerships, Collaborations and Agreements

On February 2021, Henkel Corporation and FREEDM Systems Engineering Research Center announced

- a new partnership agreement designed to study the impact of materials technology on power electronics applications.
- On June 2021, H.B. Fuller announced a distribution agreement with Jubilant Agri and Consumer Products Ltd., a 100% subsidiary of Jubilant Industries, to address the growing demand for adhesive applications in the B2B woodworking segment. JACPL will now serve as a national channel partner of H.B. Fuller

Growing furniture industry to drive the spray adhesives market

The spray adhesives market in the furniture industry is estimated to witness the fastest growth during the forecast period. The growth of the furniture industry is attributed to the growing construction industry and improving standards of living. New constructions will

increase the demand for housing and/ or office furniture. This is expected to be observed mainly in developing economies such as China, India, Brazil, and South Africa.

Asia-Pacific is projected to be the fastest-growing market for spray adhesives during the forecast period

The markets in developing economies such as China and India are experiencing high growth due to increasing purchasing power of the middle class and growing urbanization. The spray adhesives market in India is projected to witness the highest CAGR during the forecast period.

Read the full report : <a href="https://www.re-searchandmarkets.com/r/509cw2">https://www.re-searchandmarkets.com/r/509cw2</a>

If you want your report abstract to be published please contact <a href="mailto:info@chemicalmarket.net">info@chemicalmarket.net</a>

# Renewable Methanol Market Size to Reach US\$ 373.5 Mn by the end of 2032 Due to Emergence of Bio-Methanol a Superior Liquid Motor Fuel for Transportation, Future Market Insights Inc.

The demand in China Renewable Methanol market is expected to increase by 8.9% CAGR between 2022 and 2032 on value basis. Over 1/4th of Renewable Methanol Sales to be Accounted by Formaldehyde. India Renewable Methanol Market to Benefit from Stringent Regulations to Reduce Carbon Emission.

NEWARK, Del., Sept. 21, 2022 / PRNewswire/ -- The global renewable methanol market is predicted to create lucrative growth with a CAGR of 6.6% throughout the forecast period from 2022 to 2032. The market is slated to expand at a robust growth by surpassing US\$ 373.5 Mn by the end of 2032. The rising sales of daily items including

plastics, paints, cosmetics, and fuels, will fuel the demand for liquid chemical methanol (CH3OH).

According to Future Market Insights (FMI), demand for renewable methanol grew at a surging CAGR of 6.8% across the historical assessment period from 2016 to 2021. Growth in the market is attributed to the increasing awareness of carbon emissions and environmental protection all over the world. Attributing to the increasing trend of sustainability, recycling, and bio-based chemicals have been witnessing a heavy surge in demand.

Methanol is known as a key blending agent in conventional fuels in order to

reduce their emissions, due to which it is witnessing rapid growth. Renewable methanol produced with the help of renewable feedstocks is expected to gain traction in the market. In addition to that, the rapid implication of strict regulations across emissions from vehicles and industries is anticipated to be the key factor driving the growth in the market.

Read the full report : <a href="https://www.fu-turemarketinsights.com/reports/renew-able-methanol-market">https://www.fu-turemarketinsights.com/reports/renew-able-methanol-market</a>

If you want your report abstract to be published please contact <a href="mailto:info@chemicalmarket.net">info@chemicalmarket.net</a>





# Clariant Highlights its Full Range of Natural **Ingredients, from Active Ingredients to Oils & Butters, for Sustainable Beauty at In-Cosmetics Latin America**

- Showcasing one of the largest ingredient portfolios of natural actives, oils, butters, and clays in the industry
- At Booth D40 explore Clariant's co-developed products with Beraca, focused on sustainable sourcing

UTTENZ, September 15, 2022  $^{\prime}\mathbf{1}$ - Delight in the largest range of naturally derived ingredients for Personal Care at the Clariant Actives & Natural Origins' booth at in-cosmetics Latin America under the motto "The science of sustainable beauty". And find responsibly sourced innovations and inspiration to create more sustainable and efficient products to address consumer care needs, experience desires and format trends in the region (Booth D40, September 21-22).

"With the integration of our long-term partner Beraca, Clariant now offers a full range of naturals, from oils to high tech actives, for the cosmetic market to support greater sustainability in the industry. We not only apply science to the best nature has to offer, but also increasingly pay attention to how ingredients are sourced, and by whom. We're continuing and building on Beraca's ethical sourcing commitments in close collaboration with local communities to make sure natural environments are kept intact, while brands also benefit from the transparency and traceability from plant to ingredient," comments Samy El-Khoury, Head of Clariant Actives & Natural Origins.

Making its official debut at the São Paulo tradeshow, Clariant's new product line boosts access for formulators and brands to responsibly collected and extracted ingredients offering proven efficacy and science-backed claims for skin, hair, and body care. Appreciation for using natural products and "clean beauty" is growing fast among Latin America's beauty consumers, and visitors are invited to explore the widest range of

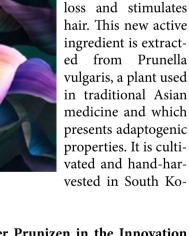
vegetable oils and butters, extracts, and inspiring formulations - all part of Clariant's wider mission to support the industry shift towards more accessible, responsible beauty.

Head to the Natural Oil Bar to test out an extensive collection, a fusion of

over 20 years' experience in natural oils designed to capture the senses. Unlock welcome relief for compromised skin with award-winning active ingredient Ethience® Protect. Clariant and Beraca's co-developed barrier function balancer is already supporting formulators with proven efficacy on key consumer concerns and eco-conscious production. The innovative Brazil nut extract rebuilds and strengthens skin's natural protective shield, leading to better hydrated, less sensitive, healthier-looking skin.

To help the industry translate ingredient benefits into trend-focused products, Clariant brings the active's protective qualities to Forest Therapy Essence, one of three Beauty Wizard inspirational well-being rituals with outstanding sensorial properties. The formulation concept features several actives introduced to the industry in 2022, including Prunizen™ a highlight natural ingredient within the Scalpific Relaxing

> Massage potion. Prunizen tackles psychoemotional stress-induced hair loss and stimulates ingredient is extractin traditional Asian medicine and which properties. It is cultivated and hand-harvested in South Ko-



Discover Prunizen in the Innovation Zone at in-cosmetics Latin America as well as at the Clariant booth D40. Plus ask the team about the skin resilience-boosting benefits of our biomimetic-inspired active, Galactinol Advanced, and explore the Berashades™ line of multifunctional clays for skin hydrating and firming cosmetics based on minimalist and sustainable formulations.

Source: Press Release Finder







# **ASCEND BRINGING NEW MATERIALS TO BATTERY SHOW**

HOUSTON – September 14, 2022 – At The Battery Show North America, Ascend Performance Materials will feature its new flame-retardant nylons for EV safety applications and its Trinohex® Ultra electrolyte additive, which improves lithium-ion battery safety, extends cycle life and boosts performance.

# Safer, higher-performance battery chemistry

Ascend, a fully integrated producer of performance materials, will showcase its Trinohex Ultra electrolyte additive; now REACH-registered in Europe and China.

In third-party testing, Trinohex Ultra demonstrates superior cathode protection across cathode and electrolyte chemistries. This protection has been shown to reduce harmful gas generation,

improve capacity retention and lower impedance growth, especially in extreme conditions.

"Battery safety, performance, cost and material availability are the biggest obstacles to mass adoption of e-mobility and renewable energies," said David Mc-Neece, Ascend's senior product manager for sustainable specialties. "Trinohex Ultra is a drop-in solution to these challenges and can be easily integrated into existing battery chemistries and manufacturing processes."

# High-voltage safety

Ascend will also debut two new polyamide technologies in its Starflam® FR portfolio: X-Protect and color-stable orange.

Starflam X-Protect is a crosslinkable, flame-retardant nylon 6,6 designed to withstand EV battery thermal runaway. Tested in accordance with SAE AS5127 (a test originally designed for aerospace applications), Starflam X-Protect was rated fireproof to 1100°C for 15 minutes.

"In open-flame tests, Starflam X-protect outperforms standard FR nylon and even aluminum," said Ian van Duijvenboode, Ascend's e-mobility director. "In

> the event of a catastrophic battery failure, that added protection provides the time needed to ensure all passengers remain safe."

Additionally, Ascend has developed a color-stable orange for its Starflam 525K for high-voltage connectors and cables. The new orange masterbatch ensures the material retains its color over 5,000 hours of heat aging without sacrificing performance.

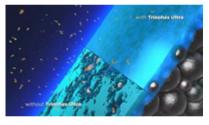
"As EVs become more prevalent and age, the technicians and first responders working on these vehicles need to know where high-voltage systems are," said Mr. van Duijvenboode. "Our orange will stay orange well into the operational life of the vehicle, clearly indicating areas of high-voltage."

Source: Press Release Finder

SABIC SPOTLIGHTS AT THE BATTERY SHOW **NORTH AMERICA ITS BROAD PORTFOLIO** FOR ADVANCING **EV BATTERY** SUSTAINABILITY, **EFFICIENCY & SAFETY** 

NOVI, MICHIGAN, September 13, 2022 - SABIC, a global leader in the chemical industry, is featuring here today at The Battery Show North America 2022 its broad and growing array of thermoplastic materials that are well-suited for electric vehicle (EV) and supply equipment (EVSE) battery applications. At booth #2211, SABIC's Petrochemicals and Specialties businesses are highlighting their latest material solu-tions to address battery requirements, including sustainability, efficiency, safety and reliability. Applications, test samples and videos are on display to illustrate and demonstrate the design, manufacturing and performance advantages of plastic-intensive solutions over traditional materials. In addition, SABIC is spotlighting its new strategic BLUEHERO™ initiative, an expanding ecosystem of materials, solutions and expertise designed to help accelerate the shift to electric power.

"Electric vehicle manufacturers are focusing on higher efficiency to improve range and performance, which are top consumer issues," said Abdullah Al-Otaibi, general manager, ETP & Market Solutions, SABIC's Petrochemicals business. "In addition to exploring higher-voltage batteries, their strategies include replacing traditional battery materials, like metals, with thermoplastics. By reducing weight and expanding









design freedom, SABIC's solutions can help enable long-term efficiency gains. We're making further advancements through our new BLUEHERO ecosystem, which applies systems engineering principles to help customers enhance EV battery design and manufacturing with thermoplastics."

"The global transition to electrification demands continuous innovation in battery materials to realize the full sustainability potential of EVs," said Maureen MacDonald-Stein, director, Growth OEMs and Markets, SABIC's Specialties business. "We combine a broad and diverse portfolio of thermoplastic resins, compounds and copolymers with design, application development and regulatory expertise. These global resources are helping customers reimagine battery design, manufacturing and operation to further enhance environmental benefits and promote circularity. Our high-performance materials can help remove barriers to EV adoption and expand the benefits of clean energy."

SABIC's Petrochemicals Business Highlights Expanding Solutions for EV Battery Needs

Under BLUEHERO, led by the Petrochemicals business, SABIC has been expanding both its portfolio of thermoplastic polymers and its EV expertise to better assist the value chain in addressing challenges, especially the critical safety requirements of batteries exposed to external fires and thermal runaway situations. The business has added a number of flame retardant (FR) materials to its offering, backed by data that demonstrates their potential to withstand high temperatures and pressure loads.

To document these capabilities, the business is presenting at the show, results from rigorous thermal runaway testing based on the new UL 2596 standard for battery enclosure materials. The testing revealed that STAMAX™ FR long glass fiber-reinforced polypropylene resin can meet the new UL standard, having

passed the six test in times succession without any perforation.

Underscoring

the potential of its FR thermoplastics, SABIC is presenting an interactive Virtual Flame Test Lab, which allows show visitors to execute a simulated flame test on samples of aluminum and STAMAX FR resin.

Other exhibit highlights from SABIC's Petrochemicals business include:

- A visual representation of the BLUE-HERO ecosystem, which enables interaction with the value chain across multiple competency areas and product development stages to support solution enhancements
- A Battery Explorer installation allowing visitors to take the virtual battery pack model apart, reassemble it and zoom in to see the specific features and uses of thermoplastics such as FR grades of STAMAX resin and SABIC® polypropylene compounds,

- as well as FR grades of LEXAN™, CY-COLOY™ and VALOX™ resins
- Honda's Silver Edison Award-winning EV battery pack cover that meets stringent fire safety requirements while eliminating thermal blankets and reducing weight by 40 percent vs. a similar design in metal
- An all-plastic prototype EV battery tray with integrated cooling channels and crash protection elements, for up to 12 percent weight savings compared to a tray in an existing aluminum EV battery pack
- A prototype plastic honeycomb structure in XENOY™ HTX resin for possible battery pack side impact

protection, with significant weight and costs savings vs. metals.

SABIC's **Business** Proven **Portfolio**  **Specialties Features** Materials

To help EV manufac-

turers address the demands of higher-voltage batteries, SABIC's Specialties business is featuring its new NORYL™ NHP8000VT3 resin at the show. This high-performance, polyphenylene ether (PPE)-based resin achieves the highest comparative tracking index performance level category (CTI PLC0), provides ultra-thin-wall extrusion and thermoforming capability, and meets the UL94 V0 standard at 0.25 mm with non-brominated, non-chlorinated flame retardance. It is well suited for insulation film used in EV battery modules to help protect against short circuits and fire propagation. The insulation film and a thermoformed part made of NO-RYL NHP8000VT3 resin are on display at SABIC's booth.

Other exhibits and solutions from the Specialties business include:

• A lightweight, laminated sandwich panel with honeycomb structures for







exceptional acoustic, vibration and thermal insulation, as well as superior dimensional stability at reduced weight vs. metals or thermosets

 Next-generation battery pack and module prototypes well suited for enclosures and covers, energy absorbers, cell spacers and cell frames, highlighting multiple Specialties products, including NORYL™ NHP6012 resin, LEXAN™ CX7420 resin and LNP™ KONDUIT™ compound.

To provide low-temperature ductility performance for robust energy absorption in extremely cold climates, the Specialties business has developed a new NORYL GTX™ grade. It is being featured at the booth in a battery side impact rocker protection component that offers high energy absorption and up to 40 percent less weight than metal. This new product, which is in the final stages of commercialization, provides superior property retention over a broad range of temperatures from -40°C to 80°C to address battery requirements such as impact strength and stiffness.

This new NORYL GTX grade can sustain e-coat bake temperatures (≤ 200°C for up to 30 minutes) in the automotive assembly process, thus helping to build multi-material solutions such as metal / plastic hybrids for light-weighting and system cost reduction.

Source: Press Release Finder

# A NEW ARRAY – THE THEME OF BASF'S 2022-2023 AUTOMOTIVE COLOR TRENDS COLLECTION

• BASF explores the spaces in-between

- A reorganization is taking place in people's minds and a new array of values is about to take shape
- Consideration of the growing need for sustainability and functionality

Each year, designers for BASF's Coatings division create a new collection to inspire automotive designers around the globe. The 2022-2023 collection is called NEW ARRAY, providing innovative shades with an increasing focus on sustainability and functionality, while still moving into new and exciting color spaces.

The collection title NEW ARRAY refers to the thoughtful process of ordering values and responding to new needs. Think of it like being on an escalator. It's a mode of transportation that does not belong to the previous nor the next level, taking the rider to a liminal space in-between. This collection immerses itself in that space to look forward at the future of mobility.

# EMEA – The doors of possibility are open

The colors of Europe, Middle East and Africa reach high chromaticity with spectacular new pigments – enabling beautiful and intense new shades.

The darker tones are fine and smooth. Neutral color shades play with a virtual look by adding subtle color information. Effects are there to support the idea and visual impression.

"Overall, identity is shown not only through uniqueness, but also in the ability to subtly extend the already unique character of diverse color positions or effects," said Mark Gutjahr, head of Automotive Color Design, EMEA.

# Asia Pacific - Standing in a liminal space

Standing in a liminal space, the colors of Asia Pacific bring us comfort, happiness,

spice, and solutions reflecting human individuality, which is expanding and gaining importance. They show people how to live gently and vividly with their own narratives.

"AP's colors shape a positive and realistic future. They draw your own story allowing you to align with your colorful identity away from the social pressures," said Chiharu Matsuhara, head of Automotive Design for AP.

# The Americas - Visions of progress

Society is grappling with its directional pull, whether to move in a radically different aesthetic without losing touch with sophisticated appearance and compelling effects. Visions of progress emanate through the Americas colors with depth, texture, and compatibility. Expressions of natural and simplified options beckon both individuals and communities to embrace liminal spaces. "Dealing with a plethora of emotions and conditions associated with both individual and communal identities, one may find solace and acceptance beyond the typical confines of tangible life," said Liz Hoffman, head of Automotive Design for the Americas. "Moving through the liminal uncertainty may ultimately provide grounding and opportunities to see into the future."

Color Expertise of the Coatings division Every year, the designers of BASF's Coatings division study future trends which they use as foundation for the development of surface, texture and color positions. They draw inspiration from industry, fashion, consumer products, nature, technology, and more. This research is shared with BASF's customers, the automotive designers, to drive future mass production plans.

Source: BASF







# **GO ELECTRIC WITH** DOW AT THE BATTERY **SHOW NORTH AMERICA**

Midland, Mich.,-- Date – From September 13-15, 2022, Dow (NYSE: DOW) will be at The Battery Show North America in Novi, Michigan to highlight the full range of MobilityScience™ technologies for electric vehicle (EV) battery systems and power electronics.

"As the transportation industry prepares for a more electric future, we're here to support OEMs and suppliers by providing customizable materials science solutions that drive towards low carbon mobility and enable safer, more reliable and higher performing batteries," said Brian Russell, market manager for Dow Performance Silicones. "Whether it's a material for battery pack assembly, battery fire protection, assembly and protection of battery management systems or power electronic devices, we can work together to identify the best solution to meet your needs within our broad MobilityScience<sup>™</sup> portfolio."

# Technologies to keep you on the move

Dow will be launching six technologies for the North American market at the show:

DOWSIL™ TC-5533 Gap Filler: DOWSIL™ TC-5533 is a two-part (1:1) soft thermally conductive silicone gap filler designed to dissipate heat and relieve stress between the battery modules and the cooling plate to prevent thermal events. This new technology also offers longterm performance stability during temperature and humidity cycling, controlled siloxane volatility, low assembly/disassembly forces and a wide application process range with low abrasion.

- DOWSIL<sup>™</sup> EC-8425 Electrically Conductive Adhesive: DOWSIL™ EC-8425 is an electrically conductive adhesive for grounding, bonding and electromagnetic shielding applications with durable mechanical and conductive properties and reliable performance under high temperatures and vibration. An adhesive with elastomeric characteristic for stress relief, DOWSIL™ EC-8425 can be used in electrical connections and as a solder replacement.
- VORATRON™ Adhesives 8200 Series: The VORATRON™ 8200 series provides optimal bonding power to meet the most demanding performance and quality needs for the many designs of cells and batteries. These high-performing adhesives can be used today to bond cell-tomodules and cell-to-pack and as the product line expands this technology will also enable cell-to-chassis bonding.
- VORATRON™ Gap Filler 1000 Series: VORATRON™ 1000 is a series of two-part (1:1) thermally conductive polyurethane gap fillers designed to achieve very low squeeze force levels and provide safe handling and usage during dispensing and processing. Its low density also helps deliver the added benefit of lightweighting.
- VORATRON™ Pottants EY-708 & **EP-516 Series:** The VORATRON™ EY-708 and EP-516 Series of pottants enable protection for both individual cylindrical cells and the entire battery in the case of a thermal event. These low-density foam pottants attribute to lightweighting in vehicles and are designed to offer fire protection, vibration absorption, thermal insulation and structure to the battery and cells.

Additionally, attendees will be able to learn about Dow's complete portfolio of silicone solutions for battery fire protection, including encapsulants, silicone foam sheets, fire-resistant rubbers and gaskets. These technologies are designed to help prevent thermal propagation and limit the spread of a thermal event in EV batteries by enabling greater flexibility, durability, thermal resistance, and improved lifetime of the battery. "The road ahead for the transportation industry is going to be paved with innovation and it's of the utmost importance that technology for EV batteries is front and center," said Dr. Esther Quintanilla, global market leader for Dow Polyurethanes. "Stop by Booth 1801 during The Battery Show North America to learn more about our range of polyurethane and silicone solutions and how we can collaborate to ensure the EV batteries of the future are more sustainable, safer and made to last."

# **Innovation on Display**

Racing and non-racing fans alike will be able to explore Jaguar TCS Racing's I-TYPE 5 race car at Dow's booth. The all-electric Jaguar I-TYPE 5, which features Dow thermal management solutions within its powertrain, was driven in Season 8 of the ABB FIA Formula E World Championship by Jaguar TCS Racing drivers, Sam Bird and Mitch Evans. As the Official Materials Science Partner of Jaguar TCS Racing, Dow is able to bring its materials science expertise to the Jaguar TCS Racing team, tapping into the power of Formula E as an accelerated feedback loop, a real-world test bed, for the EV technologies that will shape a low-carbon future.

Also on display will be a full battery mockup as well as Dow's interactive MobilityScience™ touchscreen display. The battery mockup will allow attendees to experience first-hand how Dow's technologies perform across different battery designs, including prismatic, pouch and cylindrical cells, while the touchscreen display will bring to life all the ways Dow technology can be incorporated into a vehicle, from the interior and exterior to under the hood.

Source: Dow







# AIRNOV TO EXHIBIT RANGE OF HEALTHCARE PACKAGING SOLUTIONS AT UPCOMING CONNECT IN PHARMA EVENT IN GENEVA

- Pharmaceutical packaging producers based in Europe and globally will be able to explore Airnov's pioneering solutions at key industry event
- Product ranges on display to include EQius® (equilibrium RH stabilizers), OXYNOV® (barrier bottles) and HAT®-B (sustainable vials)
- Connect in Pharma to be held in Geneva, Switzerland on September 14-15, 2022

September 8, 2022

- Airnov Healthcare Packaging, a global leader in controlled atmosphere packaging, will be exhibiting a range of solutions available to customers worldwide at the upcoming Connect in Pharma event, due to be held in Geneva on September 14-15, 2022.

Connect in Pharma is a new feature to the industry calendar. Based in the heart of Europe's pharmaceutical sector, it promises to serve as a one-stop hub for the development, industrialization and contract manufacturing of drug delivery systems and pack and filling technology. Attendees will have the opportunity to discover the latest designs and manufactures in controlled atmosphere packaging from Airnov, solutions which are built to protect healthcare products from humidity and oxygen to maintain drug stability and extend shelf life. In particular, guests are invited to discover three innovations, including: EQius\*: Airnov's equilibrium RH stabilizers are sorbent products that maintain a certain humidity level in pharmaceutical packaging in cases where specific relative humidity conditions are required. These products are specifically of interest to protect dry powder inhalers, gelatine capsules, gummies and marijuana products.

OXYNOV\*: These barrier bottles are engineered with a six-layer structure to block oxygen ingress and provide an excellent barrier against moisture. One of these layers includes Ethylene Vinyl Alcohol (EVOH) – this is especially effectively at inhibiting the oxidation of sensitive drugs.

HAT\*-B: Airnov's latest innovative vial carries numerous sustainable features, which is a key theme being explored at the inaugural Connect in Pharma. HAT\*-B

vials are designed to limit carbon footprint, with an optimized amount of plastic. They contain an adjustable desiccant quantity and incorporate versatile sorbent material to fit stability requirements. The vial, suitable for the pharmaceutical, diagnostic and nutraceutical markets, is available in two sizes and is compatible with filling lines.

Laurent Stoufflet, head of sales EMEA at Airnov commented: "We are tremendously excited about exhibiting at this brand-new event in Switzerland and

look forward to meeting new and existing contacts to discuss how we can support each other. It promises to be a packed two days full of inspiring presentations and products."

Source: Press Release Finder

# BIOIVT LAUNCHES GMP-GRADE VIVOSTART LEUKOPAKS FOR CELL AND GENE THERAPY MANUFACTURING

WESTBURY, N.Y. — VivoSTART GMP-grade leukopaks complement BioIVT's GMP-grade human AB serum, providing a complete solution for advanced therapy development BioIVT, a leading provider of biospecimens, research models and services for drug and diagnostic development, today announced the launch of its Good Manufacturing Practice (GMP-) grade VivoSTART™ leukopaks. Leukopaks contain concentrated white blood cells and are used to research and manufacture cell and gene therapies.

"This GMP-grade leukopak product introduction underscores BioIVT's commitment to being a high quality, global immune cell provider," said BioIVT CEO Dr. Richard Haigh. "BioIVT customers have always been able to scale their research up and out using our global collection network of recallable donors. With the VivoSTART leukopak launch, our customers can now transition seamlessly from research to manu-







facturing without compromising product integrity."

**GMP-compliant Vivo-**START leukopaks will serve as the ideal starting material for allogeneic ex vivo cell therapies and other advanced therapeutic applications. BioIVT's immune cell experts will work with customers to validate donors based on specific demographic criteria, HLAtype, or Fc receptor type, or other desired specifications. BioIVT also offers supply chain security solutions, such as reserving cells from specific donors for specific projects.

Matt Chorley, VP of Quality at BioIVT, explained: "As allogeneic cell and gene therapies continue to show promise, their successful clinical development begins with choosing a vendor for their starting material. Each therapy is unique, so our goal is to work not only as a starting material vendor, but also a quality partner and develop quality specifications that work in their individual research programs."

BioIVT's VivoSTART leukopak product line is supported by its FDA-registered collection site in Johnson City, Tennessee which meets all applicable US GMP/ GTP standards (21 CFR 606, 1271 and 21 CFR part 11 and part 58). BioIVT's GMP leukopaks also comply with all documented sourcing, handling, processing, storage, preserving, packaging, and product distribution procedures.

BioIVT experts will be available to discuss the company's GMP and research use only Immune Cell Portfolio at the Cell & Gene Meeting on the Mesa, which will be held in Carlsbad, CA from October 11-13. BioIVT will also be holding a mixer event for conference attendees on the evening of Monday, October 10. Additional details are available at https:// info.bioivt.com/motm-event-reg.

Source: Biopharma Dive

# **ROCHE LAUNCHES** A DIGITAL PCR **SYSTEM, A POWERFUL NEW DIAGNOSTICS** PLATFORM IN THE FIGHT AGAINST **CANCER AND OTHER DISEASES**

- The Digital LightCycler System is a next-generation digital PCR system that helps clinical researchers better understand the nature of a patient's cancer, genetic disease or infection.
- The new system has the potential to find and quantify ultra-rare, hard to detect mutations, leading to early diagnosis and treatment strategies.
- The Digital LightCycler System is designed for laboratories performing highly sensitive and precise DNA and RNA analysis in areas such as oncology and infectious diseases.

**D** asel, 23 August 2022 - Roche (SIX: **D**RO, ROG; OTCQX: RHHBY) today announced the launch of the Digital LightCycler® System, Roche's first digital polymerase chain reaction ( PCR) system. This next-generation system detects disease and is designed to accurately quantify trace amounts of specific DNA and RNA targets not typically detectable by conventional PCR methods. The Digital LightCycler System will allow clinical researchers to divide DNA and RNA from an already extracted clinical sample into as many as 100,000 microscopic individual reactions. The system can then perform PCR and produce highly sophisticated data analysis on the results.

"Understanding the hidden characteristics of serious diseases is fundamental for ensuring that the most effective treatment is selected for each patient," said Thomas Schinecker, CEO of Roche Diagnostics. "The Digital LightCycler System will support clinical researchers and laboratories in identifying rare and emerging disease mutations. This can be instrumental in early diagnosis and therapy decisions."

For areas like oncology and infectious disease, the system provides new opportunities for researchers bevond what traditional PCR technology can achieve. This includes ultra rare targets, accurately quantifying how much of the target DNA or RNA there is at a molecular level, and other high precision analysis.

Roche has made significant contributions to establish and advance PCR technology over several decades. In 1991, Roche saw the potential in PCR and invested in refining the science for use in molecular diagnostics to detect pathogens and genetic code changes that lead to diseases. The unique capabilities of the Digital LightCycler System complement the Roche suite of widely available PCR solutions. The launch of this new system adds to this PCR ecosystem, and builds on the company's founding legacy in PCR. Both solutions will be offered by Roche, providing a suite of molecular solutions to the healthcare community.

The system will be available in 15 countries worldwide in 2022 with plans to launch into more countries in the near future. It will be CE-marked and has an FDA 510(k) exempt status.

Source: Roche







## SOLVAY PARTNERS WITH INAVENTA SOLAR FOR MORE EFFICIENT SOLAR COLLECTOR DESIGNS

High-heat resistant Ryton® PPS replaces metal to enable weight and cost savings, combined with lower carbon footprint and better aesthetic facility integration

Brussels, September 13, 2022 - Solvay and Inaventa Solar, an innovator in solar thermal collector technology, joined forces in the development of the partner's new BI70 solar collector. The product leverages Solvay's Ryton® PPS[1] to replace metal, which provides significant benefits from greater design flexibility and automated manufacturing to simplified handling, better aesthetic facility integration and a lower carbon footprint.

"The main reason for replacing metals with polymers in our business is linked to the goal of making solar collectors with a lower carbon footprint," explains John Rekstad, CEO of Inaventa Solar. "The smooth and efficient collaboration with Solvay has resulted in a material solution that meets all key design and manufacturing requirements of our new solar collector and has accelerated the time-to-market of this sustainable innovation."

The combination of long-term heat resistance up to 160°C, excellent hydrolytic resistance and processability makes this new impact modified Ryton° PPS compound the preferred solution for the solar collector's thermal absorber sheet, according to Els De Meersman, Solvay Customer Technical Development Engineer. Compared to metals, it

facilitates a more flexible and efficient, automated manufacturing process for lightweight solar panels that save energy even before they are installed, by simplifying transport as well as handling on the construction site. The polymer also helps architects achieve a more seamless and aesthetic integration of the solar collectors into the roofs and façades of buildings, where they can replace other cladding components as active energy providers.

"Our partnership with Inaventa Solar is a great example of how we are supporting a more sustainable economy by enabling a lower carbon footprint along the value chain through material solutions that enable weight reduction and more efficient large-volume production," says Joachim Vercauteren, Key Account Manager for Solvay's Materials segment. "The result of this strong and focused collaboration is a custom-tailored extrusion blend of Ryton® PPS combining high-performance in-use characteristics with cost-effective processability for large structured solar panels."

Following initial installations at farms, schools, commercial and residential buildings in Norway and other Nordic countries, the cost-efficient and environmentally friendly new Inaventa

Solar collector BI70 will be available worldwide. Solvay will showcase the contribution of its Ryton® PPS polymer to the design, manufacturability and sustainability of this solar energy application at the company's Booth C61 in Hall 6 during K 2022 from October 19 to 26 in Düsseldorf, Germany.

Source: Press Release Finder

# TORAY AND A\*STAR COMMENCE JOINT RESEARCH ON ADHESIVE MATERIAL APPLICATIONS FOR POWER SEMICONDUCTORS

Tokyo, Japan, September, 21, 2022 – Toray Industries, Inc. and A\*STAR's Institute of Microelectronics (IME) in Singapore announced that they have commenced joint research to develop practical applications for high heat-dissipating adhesive sheets for silicon carbide (SiC) power semiconductors.

SiC power semiconductors offer significant energy efficiency and carbon neutrality benefits. Prospective applications include automobiles, smart grids, and data centers. In particular, from the viewpoint of further energy conservation, SiC power semiconductors are being applied more extensively for automotive applications. Compared to conventional Si, SiC has superior heat resistance, which leads to significantly improved performance by efficiently dissipating the heat generated.

Development efforts will combine Toray's material and fabrication technologies with IME's design, prototyping







and evaluation technologies. This will improve the simplicity and reliability of processes to apply high-heat-dissipating adhesive sheets and enhance semiconductor quality, dependability, and safety. Toray and IME aim to provide comprehensive solutions to SiC device manufacturers and contribute to the uptake of high-efficiency SiC power semiconductors.

Toray will promote this joint research with support from the new Toray Singapore Research Center (TSRC, a department of Toray International Singapore Pte Ltd.), which opened in Singapore in June of this year.

Toray offers electro-coating materials such as Semicofine<sup>™</sup> non-photosensitive polyimide and Photoneece™ photosensitive polyimide which employ proprietary molecular design technology as well as FALDA™ adhesive film. Semiconductor, electronic component, and display manufacturers rely heavily on these products because of their high reliability.

Since 2016, Toray has participated in several international consortiums on IME's advanced semiconductor packaging, deepening collaboration and achieving results through joint research.

Toray and IME previously collaborated to develop a robust SiC power semiconductor module that incorporates highheat dissipation adhesive sheets from the FALDA™ lineup. General heat-dissipating adhesive materials using grease and solder have a large contact thermal resistance with the cooler, resulting in failure due to inadequate cooling of the semiconductors. Toray and IME resolved these problems by applying Toray's material to create the first prototype of a new SiC power semiconductor module using a heat-dissipating adhesive sheet with a very low contact thermal resistance which is lower than conventional products. Durability tests at high temperatures confirmed that the module lasted for significantly large

number of power cycles.

In this joint research, Toray and IME will continue to prototype and evaluate devices to improve the simplicity and reliability of processes to employ high-heat-dissipating adhesive sheets in the drive for commercialization.

Source: Toray

#### **CHROMATIC ANNOUNCES BREAKTHROUGH SMOOTH-MODE TECHNOLOGY FOR ULTRA-SMOOTH 3D-PRINTED RUBBER PARTS**

TINNEAPOLIS, Sept. 21, 2022 / PRNewswire/ -- Chromatic 3D Materials, a 3D-printing technology provider, has developed breakthrough Smooth-Mode technology for 3D printing of durable rubber parts with ultra-smooth surfaces at commercial volumes. Now, industrial manufacturers can 3D print smooth, high-quality polyurethane parts, such as seals, gaskets,

grommets, bladders and other elastomeric products, with no post processing or surface finishing.

"Sealing requires

smooth surface, but 3D-printed parts have always had layer lines or roughness. We have developed a way to easily and cost-effectively 3D print products that are ultra-smooth without addi-

tional steps. It's a breakthrough for 3D printing those professional applications that must be airtight and watertight," said Dr. Cora Leibig, Chromatic CEO and founder

Parts printed with Smooth-Mode technology have superior aesthetics as well as finer dimensional accuracy. For example, products can be printed with precise uniform thickness at submillimeter scale. Thus, the new technology is suitable for manufacturing rubber bladders and other elastomeric products that expand and contract.

Chromatic's team of additive manufacturing experts first achieved ultra-smooth prints by fine-tuning the viscosity and surface tension of the company's printable thermoset polyurethane materials. "We developed a way to go beyond simply applying our reaction technology to FDM printing. Smooth-Mode uses chemistry to create an ultra-bonded and smooth part. We believe this printing technique delivers the world's smoothest printing along the Z, or height, axis," explained Dr. Bart Engendahl, Chromatic's managing director in Germanv.

Industrial manufacturers can take advantage of Smooth-Mode with Chromatic's RX-AM™ materials and technology platform. A 3-in-1 platform,

> RX-AM™ includes materials, software and hardware for deposition printing with reactive chemistry. RX-AM™, or Reactive Extrusion Additive Manufacturing, uses printable polyurethanes with Shore A hardness ranging from 50 to 90 as well as custom grades with varying colors,

hardnesses and special properties (e.g. antibacterial, static discharge, biocides, etcetera). The platform is designed for printing commercial volumes.

Source: PRNewswire







# THERMOPLASTIC SPECIALTIES LAUNCHES NEW RANGE OF SUPERTOUGH CARBON FIBER COMPOSITES

New XECARB® ST family of carbon fiber reinforced thermoplastic composites combines advanced lightweighting benefits with superior impact strength

Mussolente (VI), Italy, September 15, 2022 – Xenia® Materials, a global leader in thermoplastic specialties, has announced the introduction of XE-CARB® ST, a new family of supertough carbon fiber composites custom-en-

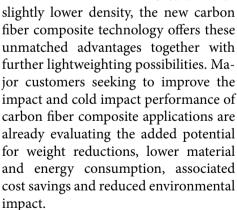
gineered to close a performance gap in the market and provide superior impact strength performance.

"There is a growing demand for lightweight composites in various new markets, such as sustainable mobility and unmanned aerial vehicles (UAVs), where we have identified a need for higher impact resistance than previously offered by carbon fiber reinforced composites," says Cristian Zanchetta, Tech-

nical Manager for R&D at Xenia® Materials. "Our new XECARB® ST family meets these challenges while at the same time opening new opportunities for innovative applications in existing market segments, such as sports equipment, appliances, supercars and even additive manufacturing."

XECARB® ST builds on the proven mechanical strengths of Xenia®'s successful

X E C A R B ° range, but shows significantly higher notched impact resistance, low temperature ductility and tensile elongation at break. With



XECARB® ST thermoplastic composites are based on selected polyamide matrix materials – PA66, PA6, PA11, PA12, PA6.10, PA6.12 and PA4.10 – addressing different mechanical, thermal and physical requirements. Standard carbon fiber content is 30 percent (CF30). The PA6-based composites are also available

as CF20, CF25, CF35 and CF40 grades. In addition, the portfolio includes two high-modulus materials for enhanced flexural strength, and provides a wide engineering window for further customization depending on specific application needs.

"Beyond winter and mountain sports equipment from boots and running shoes to bikes, these new high-impact carbon fiber composites will help us reach into other markets and further expand our customer base in Europe, APAC and North America," adds Enrico Mancinetti, Sales Manager. "Driving this growth, Xenia® Materials will also increase its European sales force with a strong focus on qualified local customer support and service."

Source: Press Release Finder

# CLARIANT OIL SERVICES LAUNCHES D3 PROGRAM TO SUPPORT CARBON REDUCTION AND SUSTAINABILITY IN THE OIL INDUSTRY

- Clariant Oil Services introduces novel program to help customers reduce carbon emissions and enhance safe operations
- The initiative optimizes customers' onshore and offshore operations and introduces more environmentally acceptable formulations as energy demand soars
- The D3 PROGRAM features an exceptional range of proven prod-









ucts. including **FOAMTREAT** WET, PHASETREAT™ WET, and WAXTREAT™ SZ

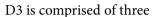
**T**OUSTON, TX, September 13, 2022 - Clariant Oil Services, a leading provider of chemical solutions, has launched the D3 PROGRAM to introduce more sustainable solutions to the oil and gas industry. The initiative lever-

D3 PROGRAM,

oil operations

infinite possibilities for sustainable

ages advances in the oilfield and helps operators reduce carbon emissions and enhance safe operations, while avoiding disruptions to ongoing operations.



key pillars. Decarb utilizes nanotechnology and ingredients from renewable sources to reduce carbon emissions in customers' operations; Densify facilitates logistics improvements and furthers sustainability initiatives through a new application with concentrated products; and Detox incorporates formulations with more environmentally acceptable raw materials.

"The oil and gas industry has taken enormous strides to accelerate sustainable development. In response to mounting environmental regulations around the world, we are collaborating with customers to proactively introduce more environmentally friendly solutions and applications to their portfolio," said Jonathan Wylde, Global Head of Innovation at Clariant Oil Services. "As the energy landscape barrels ahead to meet world energy de-

#### mands, we are nimbly satisfying customer needs, as they provide critical natural resources and reduce their carbon footprint."

Key benefits of the program include simplifying logistics for both transportation

> and storage, introducing concentrated ingredients that require smaller dosage in the application, optimizing onshore and off-

shore operations, introducing more environmentally acceptable formulations, and improving operational safety.

Clariant Oil Services' D3 PROGRAM is a global initiative featuring an exceptional range of proven Clariant products, including:

- FOAMTREAT WET: Eliminates foaming during the primary treatment stage while reducing the carbon footprint;
- PHASETREAT WET: Provides a more efficient separation of oil and water; and,
- WAXTREAT SZ: Inhibits the precipitation of paraffin, ensuring optimum oil flow.

Source: Press Release Finder

#### **MOOG X700 SERIES** 2-WAY SERVO **CARTRIDGE VALVES** WITH SUPERIOR FLOW **PERFORMANCE**

ast Aurora, NY, USA, September East Aurora, 111, 2017, 121, 2022 – Moog's new X700 Series Servo Cartridge Vales serve as robust throttle valves in electrohydraulic flow control systems, especially those requiring quick dynamic responses and high flows. Typical applications include die-casting, metal sheet forming, and presses, as well as other types of heavy industrial equipment.

The X700 Series Servo Cartridge Valves provide users with numerous advantages over other throttle valves. These include a flow-optimized design with a huge leap in flow performance compared to alternative products, and a robust design enabling a maximum main stage operating pressure of 420 bar (6,000 psi). For maximum flexibility, customers can choose between three interface options an analog or fieldbus interface - or both, combined in the same valve –to be prepared for Internet of Things (IoT) requirements.

Three sizes according to ISO 7368 are available: Size 32 (X702), size 40 (X703) and size 50 (X704). All valves are equipped with integrated electronics and closed-loop position control for the main stage cartridge poppet.

"The significantly increased flow performance of our new product family enables customers to reduce valve sizes and save costs and space, which results in a more economical machine design", says development team leader Joerg Wagner. "Combined with the higher dynamics of a smaller sized valve, these products also allow a higher machine performance."

A Moog D636 Direct Drive Valve is used for the pilot stage, offering superior dynamics and high energy efficiency, thanks to its minimal internal leakage. Due to the innovative main stage design, a sleeve alignment in the manifold is not required, providing flexibility in manifold design. For applications with particular safety requirements, fail-safe options are available that ensure a defined, safe main stage position to avoid uncontrolled machine movements.

Source: Press Release Finder







# ORTHEX GROUP MOVES TOWARD MORE SUSTAINABLE RAW MATERIALS IN COOPERATION WITH INEOS STYROLUTION AND BASF

- Orthex Houseware storage products made from INEOS Styrolution's Luran ECO materials
- Biomass balanced styrene as plastic feedstock supplied by BASF
- Certified production processes and materials

T udwigshafen, Frankfurt, Espoo, Sep-Ltember 15, 2022 - Orthex, a leading Nordic producer of household products, has selected a range of INEOS Styrolution's sustainable Luran® ECO raw materials for its range of SmartStoreTM Compact storage products. Luran ECO is a styrene acrylonitrile copolymer (SAN) resulting from a cooperation between INEOS Styrolution and BASF. It is built on BASF's production of styrene monomer derived from renewable feedstock based on a mass balance approach. INEOS Styrolution uses the material as feedstock in its production of new sustainable styrenics solutions. According to an independent third-party assessment, the carbon footprint of the new material is 93% lower compared to the fossil-based Luran version.

Orthex Group is a leading Nordic houseware producer that strives to make consumers' everyday lives easier with its products. The company has long championed sustainability with a focus on long-lasting products and increasing the use of recycled and bio-based materials to replace fossil-based plastic.

As a next step, Orthex's storage solutions brand SmartStore will start using new biomass balance based Luran ECO raw material for the entire SmartStore Compact storage range. Orthex Group's main criteria for selecting this material by INEOS Styrolution are easy processability, compliance with food contact regulations, and a reduced carbon footprint.

Alexander Rosenlew, CEO of Orthex Group, comments: "This new raw material solution will support our long-term carbon neutrality target. INEOS Styrolution and BASF make it possible for us to offer consumers more sustainable products. This supports our target to increase the share of sustainable raw materials in our production to 80% by 2030."

#### Luran ECO with significantly reduced CO2 footprint

BASF's biomass balance (BMB) based styrene is used by INEOS Styrolution in the production of bio-attributed styrenics specialties, mainly transparent styrenics materials such as the company's NAS® family of styrene methyl methacrylate (SMMA) products and the Luran family of SAN products.

The BASF and INEOS Styrolution processes within the end-to-end mass balance based production of the new solution portfolio are certified by ISCC+.

Artur Sokolowski, Director Sales Electronics & Household EMEA at INEOS Styrolution, comments: "Orthex is an innovative and fast-moving company. I am pleased to see that we have been able to provide a solution to Orthex that helps them to reach their ambitious sustainability target."

#### Biomass balanced styrene

To produce styrene BMB, BASF replaces fossil resources like naphtha or natural gas with renewable feedstocks derived from organic waste or vegetable oils. It is one way to produce styrene via a mass balance approach. Mass balance is a chain-of-custody model that keeps track of the total amount (e.g., circular or other alternative) of feedstock throughout the production process and ensures a proper allocation to the finished goods. Raw material and plastic producers like INEOS Styrolution and BASF can thus offer products with a better environmental profile but the same features as those manufactured from fossil feedstock. The allocation process via the mass balance approach as well as the products are certified by independent auditors. Read more about BASF's biomass balance approach (basf.com).

"BMB feedstocks on one side and feedstocks based on chemically recycled plastic waste on the other side, both replacing fossil resources, are a very appealing way to contribute to an improved carbon footprint of subsequent products," says Stefanie Kutscher, Head of Business Management Styrene at BASF's Styrenics Business Europe. "Alternative raw materials already in the economic cycle enable us to produce with less virgin fossil raw materials. So, both mass balance approaches aim to achieve the same."

Source: Press Release Finder

SABIC INTRODUCES

NEW LNP™ ELCRES™

FST COPOLYMER







#### **RESINS FOR RAIL SEATING, COMPLIANT WITH EN45545 STANDARD**

BERGEN OP ZOOM, THE NETH-ERLANDS, September 14, 2022 - SABIC, a global leader in the chemical industry, launched today four new LNP™ ELCRES™ FST copolymer resins that comply with the European railway standard EN45545 R6-HL 2 for train seating. Designers can benefit from these new material solutions, which not only meet the new regulatory requirements but also provide expanded opportunities to create sleek seating designs. Compared to thermosets and aluminum, the new ELCRES resins offer lighter weight and efficient processing without requiring secondary operations. To achieve a seamless aesthetic look in an all-in-one seat unit or a design with a separate back shell without painting, SABIC offers precision color matching for its extrusion grade (LNP ELCRES FST2732E resin) and injection molding grade (LNP ELCRES FST2432 resin). For customers that require more-sustainable solutions, SABIC supplies biobased version of each grade. These new materials, and several other new products, will be spotlighted at InnoTrans 2022 (Hall 5.1, Booth 332), September 20-23 in Berlin, Germany.

"Since the EN45545 standard came into effect, the rail industry has faced challenges in obtaining compliant thermoplastic materials - and SAB-IC has been proactive in providing solutions," noted Brian Rice, Senior Manager, Global Product Management, LNP/NORYL, Specialties, SAB-IC. "With our new LNP ELCRES FST products, we not only met customers' high expectations for compliance, performance, aesthetics and manufacturability, but we also addressed their sustainability goals with biobased versions. With multiple grades to choose from, manufacturers can once again leverage the advantages of thermoplastics in their seating applications."

#### Meeting Customer Requirements for Compliance with Stringent EN 45545 Standard

LNP ELCRES FST copolymers address demands from customers like Monte Meão, a Portuguese rail seating provider, for high-performance thermoplastics that help address the stringent requirements of the harmonized European rail fire protection standard, EN45545.

Fernando Cerqueira, CEO of Monte Meão said, "We needed an injection molding material that complies with the safety requirements set forth in the EN45545 standard for railway seating and offers long-term durability for our customers. SABIC's LNP ELCRES FST2432 copolymer provided a good combination of physical properties and a flexible processing window."

#### **Bio-based Materials Increase Sustain**ability

SABIC's bio-based versions of both the extrusion and injection molding grades were developed to expand the sustainability benefits of the LNP ELCRES FST materials beyond paint elimination and weight reduction. LNP ELCRES FST2732EB (extrusion) and LNP EL-CRES FST2432B (injection molding) products incorporate 55 percent renewable feedstocks from crude tall oil and other waste products. Both are potential drop-in solutions that deliver the same high performance and regulatory compliance as the fossil-based grades. An Intergovernmental Panel on Climate Change (IPCC) carbon dioxide (CO2) equivalent analysis showed these biobased products reduced carbon emissions by 33 percent vs. their fossil-based counterparts.

#### Custom Color and Chemical Resistance Enhance Aesthetics

The new LNP ELCRES FST copolymers offer molded-in color options from a broad palette, including custom colors, to help enable OEMs and railway oper-

ators to brand their seats as part of the interior Molded-in color eliminates the need for secondary painting, thereby reducing cost and CO2 footprint. To maintain the attractive appearance of rail seating over its lifetime, the SAB-IC materials provide excellent chemical resistance that simplifies graffiti removal, and a good balance of stiffness and impact resistance to improve durability and extend useful life. Also, the increased stiffness of the LNP ELCRES FST grades compared to standard PC allows the same part to be manufactured using less material, for potential cost savings. "Our new LNP ELCRES FST copolymers are the result of a major technological breakthrough that helps ensure compliance with stringent fire protection requirements of the European railway standard," commented Luc Govaerts, Director, Formulation & Application, Specialties, SABIC. "By bringing together a proprietary copolymer material and an enhanced additive package, our team delivered the outstanding flame-smoke-toxicity performance that customers are seeking. We took this major development effort one step further by formulating drop-in, bio-based versions of both grades to offer the industry new options for increasing the sustainability of rail seating."

#### New Copolymers to be Featured at InnoTrans

SABIC's Specialties business will feature the new LNP ELCRES FST materials at the company's exhibit at Inno-Trans 2022. Parts to be displayed will include the back of an R6 train seat (injection molded) and a portion of an R6 seat (extruded and thermoformed). The Specialties business will share the booth with SABIC's Functional Forms business. At the show, the company will also be featuring a new pellet-fed additive manufacturing (PFAM) grade that is well-suited for rail seating and other large parts. For more information on this new product, download the press release.

Source: Press Release Finder







## GLOBAL AMINES NEW FATTY AMINES PRODUCTION PLANT NOW ON STREAM

Singapore, September 13, 2022 - Global Amines announces the successful startup of its new fatty amines production plant in Surabaya, Indonesia.

The new plant will supply fatty amines to customers in Southeast Asia and globally, extending the support offered by Global Amines' existing production facilities in China, Europe, and the Americas. The products are used to produce key ingredients in Personal Care and Home Care, such as mild surfactants and co-surfactants for shampoo and

dishwashing liquids, and also as raw materials for diverse industrial applications.

Mr Ernesto Horikoshi,
Group General Manager of
Global Amines, said: "Supplying our customers with
competitive and high-quality fatty amines globally
is our essential purpose,
particularly with demand
growing across markets.
Construction and commissioning under the pandemic restrictions was extremely challenging, but we are
now very happy to have our

new facility on stream to complete our truly global network for fatty amines production. The substantial new capacity and extended footprint enable us to provide our customers with the stability of reliable and competitive supply for their

ever-increasing needs."

Global Amines' new facility is located in the largest integrated oleochemical site in the world, giving proximity to key feedstock supply. This ensures access to RSPO-certified palm oil and its derivatives that meet sustainable palm oil production

standards.

In addition to expanding its capacity for fatty amines, Global Amines is also expanding its product portfolio to further support the Personal Care and Home Care sectors. It announced its acquisition of Clariant's Quats and Esterquats business on August 31, 2022.

Source: Press Release Finder

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

 $B^{
m russels/Salzgitter, 26}$  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 collabo-





rate 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 IV.

"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

Source: Umicore

#### **INTERZERO AND EASTMAN REACH LONG-TERM SUPPLY AGREEMENT FOR** PLANNED MOLECULAR RECYCLING FACILITY **IN FRANCE**

KINGSPORT, Tenn., Sept. 22, 2022 / PRNewswire/ -- Interzero and Eastman ( NYSE: EMN) today announced a long-term supply agreement for Eastman's previously announced molecular recycling facility in Normandy, France. Interzero will provide up to 20,000 metric tonnes per year of hard-to-recycle PET household packaging waste that would otherwise be incinerated.

Interzero Plastics Recycling, as part of Interzero, is an innovation leader in plastics recycling with the largest sorting capacity in Europe and many years of experience. Headquartered in Germany, Interzero is a leading service provider of circular solutions in Europe and is strongly connected to its sister company ALBA Group ASIA both led by Chairman and Shareholder, Dr. Axel Schweitzer. Eastman's planned molecular recycling facility in France will become the world's largest material-to-material molecular recycling plant. Once complete, the facility will recycle approximately 160,000 tonnes of hard-to-recvcle polyester waste annually. The project is expected to be operational in 2025.

"Eastman is a leader in molecular recycling with decades of innovation expertise. Joining forces by combining the leading know how of Eastman and Interzero is the next step in closing the loop with our partners and a step closer towards a world without waste," said lacco de Haas. chief commercial officer at Interzero Plastics Recycling. "The world is facing a plastic

waste crisis with far too little plastic waste being either recvcled. from lack of collection or because it simply cannot be recycled by traditional methods. Eastman's innova-

tive process and this agreement bring a solution to this."

Chemical recycling is a necessary complement to mechanical recycling to keep more raw materials in the loop. Both companies are committed to creating material circularity. Eastman's facility in France will process colored and opaque PET waste that cannot be recycled mechanically to create clear and transparent rPET upon completion.

"Interzero and Eastman are committed to reducing plastic waste and creating circularity through collaboration and innovation," said Brad Lich. Eastman executive vice president and chief commercial officer. "This agreement marks an important milestone towards Eastman's investment in France. We are happy to build a strong collaboration in Europe with Interzero to provide a portion of the feedstock needed to successfully operate our facility. The collaboration reinforces the complementary nature of mechanical and molecular recvcling, and the importance of working together to create true circularitv."

Eastman's proven polyester renewal technology provides true circularity for hard-to-recycle plastic waste that remains in a linear economy today. This material is typically incinerated because it either cannot be mechanically recycled or must be downcycled using existing technology. Eastman's chemical recycling technology allows this hard-to-recycle waste to be broken down into its molecular building blocks and then re-

assembled to become first-quality material without any compromise performance. Eastman's polvester renewal technology enables the potentially infinite value of materials

by keeping them in production, lifecycle after lifecycle. With the technology's inherent efficiencies and the renewable energy sources available in France, materials can be produced with significantly less greenhouse gas emissions than traditional methods.

Source: PRNewswire







#### SABIC to Debut at InnoTrans a New EN45545 Rail-Compliant Additive Manufacturing Solution to Help Advance the Transportation Industry

BERGEN OP ZOOM, THE NETH-ERLANDS, September 13, 2022 - SABIC, a global leader in the chemical industry, will introduce at Inno-Trans 2022 in Berlin, Germany, LNP™ THERMOCOMP™ AM DC0041XA51 compound, a novel carbon fiber-reinforced, flame-retardant (FR) compound well-suited for pellet-fed additive manufacturing (PFAM) that complies with E.U. and U.S. rail fire safety standards. The innovative new compound can help

the rail industry advance from building traditional tools for part production from thermosets to utilizing on demand 3D printing which

can potentially lower system costs by reducing inventory levels of large tools and replacement parts.

At InnoTrans, September 20-23, in Hall 5.1, booth #332, SABIC will be exhibiting a large front-hatch part printed by CAF, a leading multinational supplier of comprehensive transit solutions for major railway networks, using LNP THERMOCOMP AM DC0041XA51 compound. CAF chose the new compound to print large replacement parts quickly, with the goal of minimizing lead times and inventory.

"With our increased focus on 3D printing, we were looking for a material that complies with the stringent safety requirements
set forth in international
standards like NFPA 130
or EN45545," said Lucas
Esteban, operational manager from Digital Manufacturing, CAF. "SABIC's
LNP THERMOCOMP AM
DC0041XA51 compound

has unique features that fit well with industry requirements, including the

appropriate railway certificates. Its non-halogenated flame-retardant system addresses current sustainability trends, and its carbon fiber reinforcement and favorable processing allow us to make larger part geometries with sufficient stiffness and limited warpage. This breakthrough material is an ideal solution for CAF and the entire transportation industry."

Complying with Global Rail Safety

Standards

The new LNP THERMOCOMP AM DC0041XA51 compound is well-suited for printing large or medium-size rail components using PFAM. This compound is one of the first PFAM-capable materials to comply with requirements of the harmonized European EN45545 standard (R1 Hazard Level 3) and the U.S. NFPA-130 standard for interior and exterior parts. The product has been certified compliant with both standards by an independent laboratory.

Combining SABIC's proprietary copolymer resin with additive and reinforcement technology, SABIC experts developed a solution that meets the challenging requirements of these standards, which place strict limits on smoke density and toxicity, heat release and flame spread.

#### **Optimizing PFAM**

The new material offers important performance advantages for printing large parts using PFAM. Firstly, LNP THER-MOCOMP AM DC0041XA51 compound maintains its structural integrity during printing and delivers good dimensional stability with low warpage for the finished part. From a processing standpoint, LNP THERMOCOMP AM DC0041XA51 compound may eliminate the need for additional investment since the product facilitates high printing speeds at relatively moderate temperatures. Potential applications include exterior parts such as bumpers as well as interior cladding components such







#### **VIEWS AND STATEMENTS**



"This project was a natural fit for Arkema. As a leading provider of polyester resin for the solvent free powder coating technology, we are constantly exploring new path, partnerships and scientific research that advance the circularity of our products. We are excited by the long term goals of this project and look forward to sharing more innovation with our customers and partners in the years to come.

- Neil Taria

"SYNAQUA® 9511 acrylic polyol emulsion offers significantly lower VOC capabilities and performs well in 2K or 1K stoving systems. Our goal was to help industrial paint formulators more easily meet their sustainability goals by achieving lower VOC levels with a high-performance waterborne solution."



- Claire Reynier, global marketing and business development manager for industrial coatings, Arkema Coating Solutions.



"Building cross-sector alliances to deliver new clean energy projects continues to be an important pillar of Iberdrola's global strategy, based on electrification through renewables, networks and storage. Businesses are taking a leading role in the energy transition and this major new solar project will deliver significant environmental and economic benefits. We look forward to working with Solvay and to grow our relationship further in the years to come."

- Ignacio Galán, Chairman and CEO of Iberdrola

"Linde is the largest liquid hydrogen producer in the U.S. and this new capacity will increase product availability at a time of growing demand from customers across several end markets, including aerospace, electronics and manufacturing, We will continue investing in green hydrogen projects to help meet growing demand as well as contribute to a more sustainable energy economy."



- Todd Lawson, Vice President East Region, Linde



"As a well-respected producer of masterbatches, compounds and additives in Brazil, Colortech da Amazonia is known for its innovation, service and quality products. We believe Colortech is the ideal partner to advance our business by expanding our footprint and enhancing our product offerings to our customers, We are thrilled to welcome the experienced Colortech team to LyondellBasell."

- Torkel Rhenman, executive vice president of Advanced Polymer Solutions.







#### **VIEWS AND STATEMENTS**



"At our demonstration plant in Germany we have verified the superior quality of the bio-silicates over several years of research and development in a pre-qualification process with Evonik," said Gerhard Bacher, CEO of Pörner Germany. "Our patented process is based on the ash of biomass power plants fired with rice husks, where the Pörner Bio-Silicate Technology intelligently uses the natural filtering ability of the rice plant to produce high-quality sodium silicates for many applications - above all to produce the silica used in the tire industry. Now, through this cooperation, it is possible to produce Bio-Silicates on an industrial scale and significantly reduce the CO2 footprint compared to the conventional processes. We are starting to decarbonize the silicate processing industry worldwide."

- Guosheng Zhang, Global Technical Innovation Manager Feminine Care

"This cooperation is a strategically important first step in the further development of our product portfolio. For the first time, we can offer our customers an ULTRASIL® silica with an improved sustainability profile, thus we can support our customers' carbon reduction and circularity goals, Further measures at other sites in our global production network are also planned to expand our renewables offering to meet global demand more sustainably."







"The MCR production line is another exciting step we have taken to fulfill our commitment toward a circular economy and achieve our goal to become operational climate neutral by 2035, Recycling plastic waste is absolutely essential to the circular economy, and addresses one of the major global challenges we face together as a society. We will continue to invest in expanding and improving our capacity for recycled plastics, and leading the industry to create materials with higher recycled content."

- Sucheta Govil, Chief Commercial Officer of Covestro.

"With a curing time of less than 10 minutes at 150 °C, our new SolvaLite® SF200 Surfacing Film lends prepreg layups for high-class automotive body panels a very smooth cured surface where impeccable flatness is an indispensable prerequisite for painting, The product is based on our latest fast-cure technology and compatible with autoclave curing. It combines a longer outlife than previous surface films with good adhesion to automotive paints and primers, and minimizes the required rework prior to painting."



- Dan Eskelsen, Head of Product and Asset Management Adhesives at Solvay's Composites business unit.







as side panels, partition walls and ducts, and seating backs and shells.

"SABIC is a leader in pellet-fed additive manufacturing materials, and we continue to innovate with specialized solutions that address specific vertical industry challenges," said Luc Govaerts, director, Formulation & Application Development, Specialties Business, SABIC. "We developed our newest LNP THERMOCOMP AM compound to offer the rail industry a regulation-compliant solution that can be used for on-demand printing of large, complex

exterior and interior parts in relatively small build numbers. Pellet fed additive manufacturing avoids the time and costs of creating tooling, helps reduce inventory and offers expanded design freedom. Our successful collaboration with CAF demonstrates the value of all these factors, and we believe many other rail manufacturers can benefit from adopting PFAM and our materials."

#### **Improving on Competitive Materials**

Few thermoplastic compounds can simultaneously meet EN45545 and NFPA

130 standards and work successfully in PFAM systems. High-temperature materials such as polyetheretherketone (PEEK) address stringent fire safety requirements but do not process as easily as the new carbon-filled compound using additive manufacturing.

Compared to thermosets formulated with halogen-based FR additives, SAB-IC's new LNP THERMOCOMP AM DC0041XA51 compound provides expanded design flexibility, facilitates recycling and offers a non-halogenated FR solution.

Source: Press Release Finder

#### INEOS Styrolution Presents Industry Leading Lineup of Uncompromising Sustainable Polystyrene

- Mechanically-recycled polystyrene made from 100% post-consumer waste
- Bio-attributed polystyrene made from ISCC-certified renewable feedstock
- Performance matches that of respective virgin products
- Drop-in solutions: No adjustments, no interruption, no hassle

Frankfurt, September 13, 2022 - IN-EOS Styrolution, the global leader in styrenics, has introduced a lineup of commercially available sustainable polystyrene products that is second to none. The new products provide customers a choice to select the best fit for their application.

The complete lineup introduced today follows initial announcements on mechanically-recycled polystyrene solutions in 2021 [1]. The new "ECO" products offer the performance of the respective virgin products, but with a significantly lower CO2 footprint. All products are drop-in solutions. INEOS Styrolution's polystyrene portfolio includes general purpose polystyrene (GPPS) resins and impact modified polystyrene (HIPS) resins. GPPS resins are transparent polymers suitable for injection molding or extrusion applications. They are typically used for food service, food packaging, refrigerator components, building & construction and healthcare applications. HIPS resins, also suitable for extrusion and injection molding, are typically used for yoghurt cups, food packaging, electronic devices and durable fridge liners.

INEOS Styrolution's portfolio of sustainable polystyrene solutions consists of recycling solutions and bio-attributed polystyrene.

#### **Recycling solutions [2]**

INEOS Styrolution offers today mechanically-recycled polystyrene with properties that make downcycling unnecessary. Products come as drop-in solutions to customers' existing production processes. Thus, investments into new equipment are not needed, processes do not need to be re-evaluated, and no downtime in production is required.

All of INEOS Styrolution's mechanically-recycled polystyrene products for food contact applications contain 100% post-consumer recycled content, and the Styrolution® PS ECO 440FC grade produced from household food packaging waste is available with a food contact statement supplied by INEOS Styrolution.

Louie Mackee, Commercial Product Manager for Sustainable Products, IN-EOS Styrolution says: "This is a major step forward. Food contact applications can be recycled back to the same application through mechanical recycling. After tackling the most demanding food contact applications, we plan to further look into mechanical recycling solutions for the household and construction industries."

#### Bio-attributed polystyrene

INEOS Styrolution's new bio-attributed polystyrene products are made from styrene sourced from renewable ISCC-certified feedstock. Using this new feedstock as a replacement for fossil-based feedstock results in a substantial greenhouse gas saving compared to







conventional polystyrene, and the product carbon footprint of bio-attributed Styrolution® PS ECO is at least carbon neutral or even better (offering a negative carbon footprint). All INEOS Styrolution's bio-attributed polystyrene products are produced according to an ISCC-certified mass balance approach. Bio-attributed polystyrene products can be recognised by the suffix "B100" in their name, where "100" indicates that an amount of ISCC-certified bio-feedstock equivalent to 100% of the product is attributed to the final material. (If desired, customers can achieve a lower bio-attributed content in their final product by mixing the B100 material with an appropriate quantity of conventional polystyrene.)

All of INEOS Styrolution's bio-attributed products have identical physical and

mechanical properties as their fossil-based counterparts, as well as all the same regulatory documents available. Therefore, when switching to INEOS Styrolution's bio-attributed products, no new material approval processes are required. The bio-attributed GPPS product "Styrolution" PS ECO 168N B100", for example, is iden-

tical to the existing "Styrolution" PS 168N" material, but with 100% of the feedstock attributed from ISCC-certified sources.

Mackee continues: "While the mechanical recycling process helps prevent valu-



able feedstock ending up in landfill or being incinerated, ISCC-certified bio-attribution can offer an alternative route to production with a significantly lower product carbon footprint. Early access customers have already successfully started the production

of food contact applications with our new materials."

Source: Press Release Finder

## DSM Engineering Materials Invests in Evansville Facility; Celebrates Grand Opening of Technologyand Sustainability-Driven Plant Expansion

Geleen (NL), 15 September 2022
- DSM Engineering Materials to-day celebrated the opening of its newly upgraded and expanded Evansville, Indiana (USA), facility. The investment, which has resulted in significant technology - and sustainability-focused improvements, will help DSM Engineering Materials to meet growing demand for next-generation high-performance polymers used in a wide range of end-applications and will help drive the shift to a low-carbon, circular economy.

The 40,000-square-foot facility now integrates the latest state-of-the-art production technologies, runs on 100% purchased renewable electricity. The investment will help to meet long-term increased regional demand for high-performance materials, such as Akulon® PA6/PA66, Arnite® PET/PBT, Arnitel® TPC, EcoPaXX® PA410, ForTii® PA4T/PPA and Stanyl® PA46.

The extensive enhancement and expansion of the site is being driven by increasing customer demand for advanced material solutions for vehicle electrification and supporting infrastructure, along with lightweighting technologies in multiple industries.

Enhancements to increase DSM's capability to produce more sustainable bio-based and/or recycled-based material solutions were also a key consideration when planning the project. The company has made a global commitment to producing bio-based and recycled-based alternatives for its entire materials portfolio by 2030.

Together with the transition to using 100% renewable electricity, the project also includes a number of

advanced energy-saving features. The expansion is a well-insulated structure that is ventilated for optimum occupant health and comfort, while emissions are scrubbed to meet stringent environmental and safety standards. Cooling is conducted with the most environmentally-friendly, non-flammable refrigerant. Variable-speed drives are used on all compounding lines to reduce energy consumption, and the optimum facility controls lead







#### to further energy reductions.

"Our investment in the latest production equipment has reduced energy consumption in Evansville and lowered our environmental impact. Through this project, we also aim to strengthen our business partnerships by continuing to invest in key areas of sustainable growth," said Roeland Polet, President of DSM Engineering Materials. "Additionally, this investment reinforces our focus on North America as a key growth market for our business."

Dave Miller, DSM Engineering Materials' Evansville Site Director, adds, "Investing in state-of-the-art technology provides both short- and long-term value. Enabling optimal health and com-

fort for all our colleagues – and increasing capacity – has positive effects we can see today, but this investment also underlines our commitment to sustainability and reducing our environmental impact in the long term. And by producing more bio- and recycled-based materials, we'll be able to help more of our customers do the same.

Source: Press Release Finder

#### Dow to Showcase More Sustainable, High-Performance Facade Systems and Live Introductions with Specialists at Glasstec 2022

- Dow launches the world's first-ever carbon-neutral silicones for building facades verified to PAS 2060.
- Join live sessions from specialists at the Dow booth.

MIDLAND, Michigan – Sep. 16, 2022 – Dow (NYSE: DOW) will introduce silicone and organic sealing systems designed to further enhance performance, safety and long-term durability at glasstec 2022, being held in Düsseldorf, Germany, September 20-23. Exhibiting in Hall 11, B59, our innovation wall will showcase technologies that advance applications for structural glazing, insulating glazing, fire safety, weatherproofing and solar. Also, on display and presented live will be a new

ground-breaking industry service: Dow Carbon-Neutral Silicones for building facades.

"The launch of the first-ever carbon-neutral silicones for building facades represents a significant milestone on our sustainability journey," explained Markus Plettau, Global Marketing Manager Facade for Dow Building & Infrastructure. "This project specific carbon-neutrality service is now available

for structural glazing, insulating glass and weather sealing applications for high performance facades globally. Verified to the internationally recognized PAS 2060 carbon-neutrality standard, selected DOW-SIL™ Silicones can support green building designs, enhance facade sustainability and improve green building ratings."

Source: Dow

## BASF and Ebusbar Charge up the eMobility Market in China with a Concept Supercharging Pile

 BASF's solutions suitable for high-powered electric vehicle chargers

Shanghai, China – September 14, 2022
– In conjunction with the inaugu-

ration of BASF's Engineering Plastics plant at the new Zhanjiang Verbund site, BASF and Ebusbar showcased a concept supercharging pile made with BASF's innovative material solutions. Ultramid® PA, Ultramid® Advanced PPA, Ultra-

dur® PBT, and Elastollan® TPU are used in various components of the concept supercharging pile, including housing of electronic parts, charging guns, breakers, switches, safety components, cables, and a cooling system.







"The materials used in the concept supercharging pile possess excellent mechanical properties, including flame resistance and electrical insulation. Our proprietary simulation technology Ultrasim® also helps to shorten the design cycle," said Marilyn Lye, Vice President, Business Management Industrial, Performance Materials Asia Pacific, BASF. The prerequisites of materials used in high-powered chargers are more demanding since they have to withstand a much higher current and voltage load. As such, these charging piles need to be made with high-performance materials that exhibit excellent mechanical performance at elevated temperatures and possess high dimensional stability.

"The concept supercharging pile is a prime example of how we can meet the growing demand for high-powered chargers that are reliable, durable, and safe," said Mr Lin Guojun, President, Ebusbar.

The stylish design of the concept supercharging pile was also supported by BASF's

"As China is expected to account for about half of the global electric vehicle market by 2025, the charging infrastructure is key in

enabling the widespread
use of electric vehicles. As
such, the construction of
charging piles has accelerated in tandem with market needs and government
investment. High-powered
charging piles, in particular, improve the feasibility
and consumer experience of
charging electric vehicles,"
added Mr Lin.

Source: BASF

## Lithium from Electric Vehicle Batteries: Moving Towards Better Recycling

- Evonik is working on efficient technology for the recovery of lithium
- In view of the trend to electric vehicles, the company's experts expect high interest in the technology
- Recovery should protect the environment and increase reliability of supply

Essen, Germany. Evonik aims to make the recycling of lithium simpler, more cost-effective, and more environmentally friendly. This metal is essential for the batteries used to drive millions of electric vehicles. At present, however, up to 95 percent is not recycled after use. Evonik's researchers have therefore adopted a new approach, focusing highly efficient recycling of lithium using an electrochemical process with a ceramic membrane. The technology is currently being tested on a pilot scale. It is highly efficient and generates high-purity lithium hydroxide that is suitable for the manufacture of new batteries. Following proof of concept in the lab, the technology now needs to be driven forward—and Evonik is working on that at its sites in Hanau and Marl in Germany. Its specialists are confident that the ceramic membrane process will be market-ready in three to five years.

Elisabeth Gorman, lithium recycling expert at Evonik, expects this to coincide with an important milestone: "In a few years, many lithium-ion batteries will be coming to the end of their service life. As a result, there will be a sharp rise in the volume of spent batteries that can be used to recycle lithium. Moreover, new production facilities are being set up in Europe for large-scale production of batteries for electric vehicles. That will generate production waste containing lithium. A third factor is legislation: The EU, in particular, is pressing for valuable raw materials to be re-used in the production cycle. That is already realistic for cobalt and nickel, but the recycling rate for lithium is less than 5 percent at present."

Gorman is responsible for market devel-

opment of lithium recycling at Creavis, Evonik's strategic innovation unit and business incubator, and is familiar with the legal situation: In the EU, it is stipulated that in four years' time at least 35 percent of the lithium from spent batteries will have to be recovered. From 2030, the percentage has to be increased to 70 percent. China and the USA also have government regulations on the recovery of lithium.

The processes currently used to recover metals from spent batteries are based on smelting (pyrometallurgical process), leaching (hydrometallurgical process), or a combination of the two. These processes have proven effective for the recovery of cobalt and nickel. Conventional reprocessing of lithium is also based on hydrometallurgic processes. However, the processes are cost-intensive, require large quantities of energy and water, and involve many interim steps and additional chemicals. There are therefore good reasons to look for better alternatives.







Evonik has taken up this challenge. Experts at this specialty chemicals company are working on the development of a ceramic membrane with selectivity for lithium ions, which forms the heart of an electrochemical process. The aim is selective and efficient recovery of lithium salts from spent batteries—while minimizing the use of energy and chemicals. The starting point is the black mass. This is the term used by experts to refer to what remains of spent lithium-ion batteries when the plastic parts have been removed and the rest has been ground to powder. The black mass contains a mixture of lithium, cobalt, nickel, and manganese. Processing of this black mass results in lithium leachate.

Evonik's research team processes this leachate electrochemically with the aid of a ceramic membrane with selectivity for lithium ions. Selectivity means that the membrane only allows positively charged lithium cations to pass from the

side with the leachate and the positively charged anode to the other side, where there is a negatively charged cathode. Here, the lithium ions are combined with hydroxide to form battery-grade lithium hydroxide with almost 100 percent purity.

this could limit damage to the landscape and greatly reduce dependency on suppliers. Elisabeth Gorman is confident that in a few years

Demand for lithium is set to rise as a result of the ongoing shift from combustion

engines to electric vehicles. Experts predict that in the long term recycling will contribute around 25 percent of the lithium salts required. At the same time,



Evonik's newly developed membrane will facilitate efficient recycling of lithium—and be recognized for its sustainability.

Source: Evonik

#### Pemion™ Hydrocarbon Membrane and Polymer Set to Disrupt Heavy-Duty Fuel Cell Applications

VANCOUVER, BC, Sept. 21, 2022 /PRNewswire/ - Ionomr Innovations Inc. today released its breakthrough Pemion™ hydrocarbon-based proton exchange membrane and polymer, marking a revolutionary advance in materials for green hydrogen fuel cell applications for heavy-duty industry.

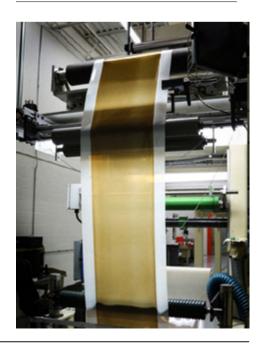
Pemion<sup>™</sup> is used in large fuel cell applications including heavy-duty transport, automotive, and stationary power, offering superior chemical and mechanical stability, conductivity, durability, and efficiency, all of which serve to dramatically reduce the unit cost of the fuel cell.

Pemion<sup>™</sup> is environmentally friendlier than conventional fluorinated membrane and polymer technology, decreasing reliance on these increasingly regulated materials, and enables simplified and lower-cost recycling for the recovery of expensive catalysts at end of life.

Bill Haberlin, Chief Executive Officer of Ionomr, says, "Governments and regulators across Europe, in the U.S., indeed around the world, are rightly calling for the elimination of toxic, perfluorinated materials.

Pemion™ is an ideal replacement for conventional materials, for its environmental benefits and for

its superior performance.
With our Pemion™ materi-









als now produced at scale, our partners can take their fuel cell and other clean energy technologies to market faster, cleaner, and with better performance. Pemion<sup>™</sup> provides a tangible differentiation in the heavy-duty market."

Dr. Matthias Breitwieser, Chief Technology Officer at ionysis GmbH, said: "We have been collaborating with Ionomr for several years, and after working with their Pemion® materials have now achieved a step-change in the performance of fully hydrocarbon membrane-electrode-assemblies (MEAs), rivaling PFSA solutions. Based on this success, we've established our new company, ionysis, to develop high-performance hydrocarbon MEAs as a viable alternative to conventional solutions."

#### Pemion<sup>™</sup> represents a fundamental shift in proton exchange technology

Conventional polymers and membranes are produced using perfluorinated sulfonic acid (PFSA) chemistry. Perfluorinated compounds are known environmental toxins that can leach into water sources, accumulate biologically in living organisms, and are difficult to recy-

Eliminating these widely used substances from all sources is an urgent focus globally. Pemion™ products are

produced using environmentally benign hydrocarbon materials and avoid the environmental problems associated with conventional counterparts, while still achieving maximum durability and performance.

Also, significantly, Pemion™ materials' gains in performance and reductions in gas crossover result in a significant reduction in lifetime hydrogen fuel cell cost. Higher temperatures are possible for higher power stacks with improved cooling and higher efficiency, and the lifetime of the fuel cell is enhanced due to reduced degradation. Pemion boasts one of the highest room temperature conductivities available while maintaining its mechanical stability for improved overall efficiency and longer system life.

Source: PRNewswire

#### Far Eastern New Century won the "Sustainability & Innovation Award" from ITMF Awards 2022 with FENC® TOPGREEN® Bio3

FENC® TOPGREEN® Bio3, World No.1 Fabric made from waste gas reuse technology & N66 solution dye.

AIPEI, Sept. 21, 2022 /PRNewswire/ ■ -- As the pioneer in innovation and sustainability, Far Eastern New Century Corporation (FENC) is able to provide solutions to lower the environmental impact for both Poly and Nylon and our effort, FENC® TOPGREEN® Bio3, is honored to be recognized by International Textile Manufacturers Federation (ITMF) Awards 2022, the world's first fabric made with recycle waste gas PET and combine with our Nylon66 Solution dye technology which is skip dyeing process and makes the whole fabric eco-friendly.

Its lineup of environmental products sets the Company apart from over 45 global material suppliers and won it "Sustainability & Innovation Award"

from ITMF Awards 2022, which recognize sustainable and innovative achievements in the textile industry with focus on innovation, design, development, and production under the strictest standards of sustainability and respect for the environment.

FENC cooperates with biotech company, Lanza-Tech, to utilize bio technology which transforms

industrial waste gas into low carbon ethylene glycol (EG) then utilized in polyester production. Fabrics made from polyester that

capturing carbon emissions and can greatly reduce greenhouse gas (GHG), reduce energy using, reduce water consumption, reduce

> **L** chemical consumption. Not only ensure lower pollution levels in the com-

munity, but also maximizes sustainability in saving energy and water through FENC waterless dyeing technology for our next







#### Price as on September 30, 2022

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

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







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

Name of Chemicals	Pack (Kgs)	Price	Change (Rs./Kg)
Polyvinyl Alc hol (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.

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#### generation.

In 2021, FENC formed collaborations with major international corporations, lululemon, ZARA and other global brands to turn waste gas into apparels by using FENC\* TOPGREEN\* Bio3 technology.

Actions towards net-zero cannot wait, and FENC is answering the call to reach this global vision. With 2020 as the baseline, FENC's production business plans to reduce emissions by 20% by 2025, 40% by 2030 and commits to achieving net zero by 2050. Tackling emissions from the production, fuel,

energy, raw material and transportation fronts, FENC continues its quest for new technology as it forms partnerships with the entire value chain to build green business models, reduce carbon emissions and fulfill its corporate social responsibility.

Source: PRNewswire

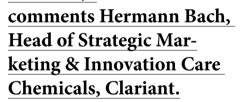
## Clariant Extends Support For Manufacturers of Fully Synthetic Metalworking Fluids

- Head online for a full set of lubricity improvers, extreme pressure/ anti-wear additives, corrosion inhibitors, neutralizing agents & guide formulations for fully synthetic metalworking fluids that increase efficiency at the machine
- Cut formulation complexity and toxicity by using fewer components
- Application-screened solutions offer specific benefits and synergies for high-performing cutting fluids: find out more in our webinar on October 11, 2022

MUTTENZ, September 22, 2022 - Access the full potential of Clariant's additives to develop high lubricity, fully synthetic metalworking fluids. Launched online today, the uniquely comprehensive set of low-foaming, multifunctional additives is now available alongside formulation guidance to support mineral oil-free, more bio-resistant water soluble fluids that boost machining efficiency, productivity and protection with fewer ingredients.

"Fully synthetic metalworking fluids have been used in ferrous grinding operations for some time, but their use in aluminum cutting has increased more recently. We want to make it easier for lubricant manufacturers to adjust more sustainable products to this new area as demand grows for parts

made from lightweight, recyclable metal in industries such as automotive, construction and E&E,"



Clariant has now screened additives from across its whole portfolio, testing them in specific applications to determine their benefits for all kinds of high-performing fully synthetic metalworking fluids. Updated webpages provide manufacturers with a full overview of the properties of each ingredient. This new resource presents the best way of formulating them to access their full potential and the synergies between them.

"We're committed to helping manufacturers find and get the most out of multifunctional ingredients to reduce formulation complexity, optimize fluid performance and use-life, increase corrosion protection and support cleaner operations," Bach continued.

Customers can clearly see what is avail-

able to achieve their needs, from biodegradable additives and Lubricant Substance Classification (LuSC) listed ingredients compatible with environmental labels, to the sup-

port of guide formulations that offer the potential to use less biocide.

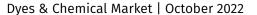
Fully synthetic fluids are an important tool in more sustainable aluminum cutting operations. Clariant's comprehensive set of additives, corrosion inhibitors and agents have no or very low toxicity, with the vast majority being biodegradable and free of health and environmental hazard labels. They include:

Clariant's comprehensive set of additives, corrosion inhibitors and agents, includes:

A broad portfolio of water soluble polyalkylene glycols (PAG) lubricity additives well balanced in lubricity, foam and wetting properties for ease of formulation. Highlights include lubrication and







lubricity additives Genapol® RPF 1720 and 1740, specially designed to be used in fully synthetic fluids. They are resistant to water hardness, acids and alkalis and provide a low surface tension as well as low contact angle on steel.

Extreme pressure / anti-wear additives which are water soluble, low foaming and offer excellent performance under extreme lubrication conditions.

- Multifunctional corrosion inhibitors which act as corrosion inhibitor, hydrotope and lubricant.
- Low odor, low foam neutralizing agents that improve end product odor and also act as a coupling agent to potentially reduce formulation complexity.

Clariant's portfolio also includes those that carry German water hazard class 1

(WGK1) for protection of aquatic life. Alongside the environmental benefits of avoiding mineral oil, the transparent, non-milky compositions of fully synthetic fluids also bring the advantage of improving workpiece and tooling visibility. This supports higher machining rates which can be enhanced further through low-foaming additives.

Source: Chemical Market

### Toray to Increase Prices of Automotive Airbag Yarn and Fabrics

Tokyo, Japan, September 21, 2022 – Toray Industries, Inc., announced today that it intends to lift the prices of nylon 66 yarn and fabric for automotive airbags by up to 35% for shipments from October 1 this year.

This move is because prices have remained high for nylon 66 polymer, a principal material in automotive airbag yarns and fabrics.

This is amid rising demand from a global economic recovery and surging crude oil prices stemming from

supply concerns as a result of the Russian invasion of Ukraine. Another factor is that the company expects the cost of producing yarn and fabrics to keep climbing owing to further price hikes that started last year for such inputs as secondary materials, fuel, and transportation.

The U.S. dollar's sharp appreciation since April this year has driven procurement costs higher for Toray's airbag business, with the impacts of exchange rate fluctuations from the yen's depreciation exacerbating the situation by affecting export prices to Japanese market.

It was against this backdrop that Toray is undertaking a project under Project AP-G 2022, its medium-term management program, to bolster its total cost competitiveness by slashing expenses and streamlining fixed and variable spending.

The company has nonetheless found its savings initiatives unable to offset higher current cost increases. It accordingly has to raise prices to maintain consistent quality and develop and commercialize products that deliver even higher value.

Source: Toray

### **Evonik Increases Additive Capacities for Architectural Paints**

Evonik's Coating Additives business bline is increasing capacities of two additive product groups for architectural paints: TEGO® Phobe hydrophobing agents and TEGO® Viscoplus polyurethane thickeners.

Capacity expansion in Europe for

TEGO® Phobe and TEGO® Viscoplus Increased global supply security supports customer requirements

Essen, Germany. Evonik's Coating Additives business line is increasing capacities of two additive product groups for

architectural paints: TEGO® Phobe hydrophobing agents and TEGO® Viscoplus polyurethane thickeners. The new capacities will be available from October.

"The capacity increase is our response to the increased demand for additives for







architectural paints," says Nadia Lenhardt, head of the Decorative Coatings market segment in EMEA. "The additional capacity in Europe will not only increase European, but also global supply security."

Hydrophobing agents are primarily used to give facade paints a water-repellent finish. Emulsions based on silicone resins such as TEGO® Phobe 1659 are characterized by a particularly efficient reduction in water absorption. Polysiloxanes such as TEGO® Phobe 1409 produce a very

#### good water-beading effect.

The TEGO® Viscoplus product range includes polyurethane thickeners that cover all relevant customer requirements. The TEGO® Viscoplus products are liquid and contain no organic solvents. The different products can be easily combined with each other due to their high compatibility.

Source: Evonik

#### Nippon Paper and Mitsui Chemicals Partner to **Develop Biocomposite**

Tippon Paper Industries Co., Ltd. (Tokyo: 3863; President: NOZA-WA Toru) and Mitsui Chemicals, Inc. (Tokyo: 4183; President & CEO: HASHIMOTO Osamu) are set to partner in the development of a new biocomposite with a high content of cellulose powder, a woody biomass material.

The two companies intend to develop products and bring them to market at the earliest possible opportunity, with

plans to expand into a wide range of fields - including daily necessities, containers, building materials, household appliances and auto parts. Aimed at bringing to market a new biocomposite that offers a high level of industrial stability in terms of both quality and supply, the tieup will see the partners tap into

their stable materials supply chains and leverage the advanced materials manufacturing and development technologies they have cultivated over many years.

#### The new biocomposite

With cellulose powder - a woody biomass material - as its principal ingredient, this new composite will have the same moldability as plastic. Further, the composite's use of woody biomass as its main constituent will help to cut greenhouse gas emissions by minimizing the use of fossil-fuel-derived virgin material when compared to ordinary petrochemical resins. This will in turn assist in achieving a zero-carbon society.

#### Nippon Paper's role and strengths



Nippon Paper has cultivated cellulose powder manufacturing technology and used it to develop a biocomposite with outstanding moldability. Nippon Paper now intends to provide Mitsui Chemicals with a stable supply of high-quality cellulose powder by taking advantage of its powder manufacturing technology, which is in turn underpinned by a diverse array of pulp manufacturing technologies. Under the slogan "Shaping the future with trees," Nippon Paper aims to continue contributing to better living and cultural progress.

#### Mitsui Chemicals' role and strengths

Mitsui Chemicals aims to combine cellulose powder from Nippon Paper with the compounding technologies cultivated by the Mitsui Chemicals Group to de-

velop a new strong, workable readily biocomposite with a high cellulose powder content. Plans are to tap into the existing sales network for Mitsui Chemicals' own compound

resins and use this to offer samples to customers. Mitsui Chemicals will seek to provide solutions to various social challenges generated by accelerating environmental changes, and aims through this to meet its target of achieving carbon neutrality by 2050.

Source: Mitsui Chemicals









CphI - Informa Group				
No	Exibitions	Date	Place	
1	CPhI North America	Apr 25-27, 2023	PHL	
2	CPhI Worldwide Germany	Nov 1-3, 2022	Messe Frankfurt, Germany	
3	CPhI Middle East & Africa 2023	TBD	TBD	
4	CPhI China- Virtual CPhI	Dec 20-22, 2022	Shanghai, China	
5	<u>CPhI Japan</u>	Apr 19-21, 2023	Tokyo, Japan	
6	CPhI Korea	Sept 28-30, 2022	COEX, Seoul, Korea	
7	<u>CPhI India</u>	Nov 29 to Dec 1, 2022	Noida, India	
MECS (Coating Show)				
1	Asia Pacific Coatings Show	Sept 06-08, 2023	Bankok, Thailand	
2	Saudi Arabia Coatings Show	Feb 13-15 2023	Dammam Saudi Arabia	
3	Middle East Coatings Show	June 19-21, 2023	Egypt	
4	Coatings For Africa 2024	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	Dye+Chem Brazil International Expo	TBD	Brazil			
		Red Carpet Events				
1	5th Bangladesh Int'l Dyes, Pigments and Chemicals Expo	TBD	Dhaka, Bangladesh			
	7	Turkey (Arkim Group)				
1	InterDye Textile Printing Eurasia	Nov 24-26, 2022	Istanbul			
2	Paint Istanbul TURKCOAT	TBD	Istanbul			
3	Paint Expo Eurosia	Apr 09-12, 2024	Istanbul			
		Other Exhibitions				
1	Paint India	Mar 02-03, 2023	JIO World Convention Center, Mumbai			
2	Expo Paint and Coating	July 13-15, 2023	New Delhi, India			
3	CIPI	TBD	Mumbai, India			
4	Chemspec Europe	May 24-25, 2023	Messe Basel, Switzerland			
5	ChemUK Expo	May 10-11, 2023	NEC, Birmingham, UK			
6	American Coatings Show	TBD	Indianapolis			
7	China Coat China	Dec 06-08, 2022	China Import and Export Fair Complex, Guangzhou			
8	Interdye China	TBD	China			
9	Paint Expo Germany	Apr 09-12, 2024	Messe Karlsruhe Germany			
10	India Chem 2022	Nov 2-3, 2022	Pragati Maidan, New Delhi			





#### **EVENTS AND CONFERENCES**

#### **CPHI WORLDWIDE GERMANY**

Date: Nov 1-3, 2022

City: Messe Frankfurt

Country: Germany

Website: https://10times.com/cphi-worldwide

#### **Description:** "The World's Largest Pharmaceutical Exhibition"

CPhI Worldwide is the best platform to source, connect and learn within the industry. CPhI Worldwide is considered the go-to event for any pharma professional wanting to stay relevant and up-to-date in a rapidly changing industry. With the entire pharma industry present from across the full supply chain, it is the best place to source, connect and learn exactly what you need to help your business grow.

#### **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: <a href="https://10times.com/interdye-and-printing-eurasia">https://10times.com/interdye-and-printing-eurasia</a>

**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 dyestaff, 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**

#### **INDIA CHEM 2022**

Date: Nov 02 -03, 2022

City: Pragati Maidan, New Delhi

Country: India

Website: hhttps://www.indiachem.in/

**Description:** Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Government of India, jointly with FICCI is organising the 12th Edition of "India Chem 2022" from 02 -03 November 2022 at Pragati Maidan, New Delhi. India Chem, the flagship event of the Department, is one of the largest composite events of the industry in the AsiaPacific region and comprises of an International Conference and Exhibition. India Chem 2022 will showcase tremendous potential and supportive government policy for sustainable growth in the sector and will be a single platform for investors, both domestic and international and other stakeholders to interact and forge alliances, thereby providing immense potential for trade and insvestment, in a mutually beneficial way. The concurrent sessions as part of conference includes Global CEOs Round Table as well as conclaves on different industry segments (e.g., Chemicals, Petrochemical, Agrochemical Industry, Process and machinery) and regional exchanges between India and the counties.

#### **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: http://www.chinacoat.net/?lana=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.





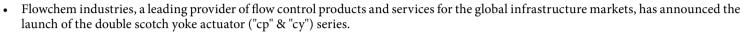
#### **Chemical Technologies on Chemical Market Leads Platform**

#### **ACTUATORS**

**Company Name: Flowchem Industries Designation: Machinery & Equipments** 

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

#### DESCRIPTION



- The "cp" series is for heavy duty and high torque application & "cy" is targeted for smaller size valves. The "cp" & "cy" is ideal where pneumatic motive power is preferred and for services requiring robust design, long service life, high-torque and high-speed operation. It is suitable for on/off, modulating and control applications of quarter-turn valves, offshore environment as well as in general, protective and safety services such as emergency shutdown (esd) or high-integrity pressure protection systems (hipps), up to and including "sil" 3 level in accordance with jec 61508.
- Our actuators are designed to meet or exceed the most current and stringent safety and reliability standards for oil and gas services; it is the modular, pneumatic driven piston-type, scotch voke actuator. Its maintenance interval is up to six years or as prescribed in en 15714 for high-cycle applications and an industry leading, 25 year design life, depending on service conditions, proper installation, operation and maintenance.
- The ruggedly built "cp"/"cy" series actuators delivers up to 63 knm and a maximum allowable working pressure (mawp) of 12 bar (g), with minimal wear and maximum efficiency. The "cp"/"cy" series actuators is available in single acting spring return or double acting configurations for operation in a wide range of standard, low and high temperature environments from -29 c (-20 f) for spring return units and -60 c (-76 f) for double-acting units up to 160 c (320 f). It has been designed and manufactured in accordance with: ip66/ip66m and ip67/ ip67m per en60529 and en 15714-3. It also meets global standards and approvals like ce marking as per atex 2014/34/eu;ped 2014/68/eu, md 2006/42/ec directives and "sil" capable to level 3 as per iec 61508.
- The "cy" series will cover ball valve, butterfly valve and plug valve up to 2000nm torque and "cp" series will cover valves up to 40000nm torque.

#### FORGED 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" - 2" (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:** HAND WHEEL, ACTUATOR **DESIGN:** API 602, BS EN ISO 15761 **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.









#### New Chemical Products Listed on Chemical Market Leads Platform

#### PLASTRETARD / RETARDER FOR GYPSUM BOARDS ( GYPSUM RETARDING AGENTS IN LIQUID FORM) / 38244000 / SICIT GROUP SPA



CAS-Number :- Molecular Formula :- Molecular Weight :- mol/g Available Qty :- Kgs

Package Size :- 1250 Price :- Available on Request

Markets :- Additives | Construction Chemicals

**Description:** Benefits of using Plast Retard L A more exact and predictable hydration point. This means you have superior control on the exact position of the knife point. Since Plast Retard L provides a certain amount of lubricity, you will get a reduction in the quantity of water needed in the pin mill (5 to 10 % reduction). The saving in water directly translates to a proportional saving in the drying cost., reducing water 5 to 10% & increases productivity of 5 to 10%.

#### METOLAT P588 / WETTING AND DISPERSING AGENT / 38244000 / MUNZING CHEMIE GMBH



CAS-Number :- Molecular Formula :- Molecular Weight :- mol/g Available Qty :- Kgs

Package Size :- 15 Kg Price :- Available on Request

Markets :- Additives | Construction Chemicals |

**Description :** METOLAT P 588 is an APEO free wetting agent in powder form. It is added to dry blends, dissolved in water before application. Adding METOLAT P 588 results in an accelerated wetting of all solid particles, including sand, cement and fibres. This results in a more homogeneous mixture of the mass and a more uniform aspect of the surface after drying. In pigmented systems it leads to a faster wetting of the pigment surface and prevents reagglomeration. Colour strength also increases.

#### KELCOCRETE DG / DIUTAN GUM BASED BIO POLYMER / 39139000 / BASF CONSTRUCTION POLYMERS GMBH



CAS-Number :- Molecular Formula :- Molecular Weight :- mol/g Available Qty :- Kgs

Package Size :- 25 Kg Price :- Available on Request

Markets:- Additives | Construction Chemicals

**Description :** High performance viscosity-enhancing agent for cement based materials Kelcocrete DG Diutan gum is a water soluble biopolymer produced by fermentation and supplied in powder form. It hydrates in the mix water and acts as a viscosity enhancing agent with pseudoplastic/shear thinning rheology profile) to prevent bleeding and segregation. Fields of Application Self compacting concrete (SCC) underwater concrete (anti wash-out) pervious concrete pigmented concrete flowable mortars and grouts.





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#### **Newly Registered Companies on Chemical Market Leads Platform**

BROADWAYS CHEMTECH



**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











#### **Videos**

## How Pencils can Help us Understand the Future of Everything Alex Wants A Jetpack Video

WASHINGTON, Sept. 6, 2022 — The chemistry world has been excited about the possibility of buckyballs, graphene and carbon nanotubes for decades. But the science has taken a long time to catch up to the hype. So where are we now, and how far away are we from a carbon-powered jetpack future? <a href="https://youtu.be/BHxn4xP8Inc">https://youtu.be/BHxn4xP8Inc</a>.

Reactions is a video series produced by the American Chemical Society and PBS Digital Studios. Subscribe to Reactions at <a href="http://bit.ly/ACSReactions">http://bit.ly/ACSReactions</a> and follow us on Twitter @ACSReactions.

The American Chemical Society (ACS)

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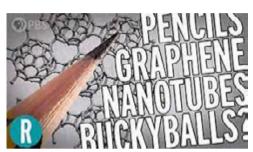
to advance the broader chemistry enterprise and its practitioners for the benefit of Earth and its people. The Society is a global leader in providing access

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 re-

search, discovery and innovation. ACS' main offices are in Washington, D.C., and Columbus. Ohio.

Source: Chemical Market



#### Why Does Salt Change the Taste of Everything?

MASHINGTON, Oct. 3, 2022 — If your coffee is too bitter, add a pinch of salt. If your salad isn't sour enough, add a pinch of salt. If your beer is too bitter, add a pinch of salt. Salt has the seemingly magical ability to enhance good flavors and dampen bad ones. How does it do that??? <a href="https://youtu.be/dWatMuHZIxE">https://youtu.be/dWatMuHZIxE</a>

Reactions is a video series produced by the American Chemical Society and PBS Digital Studios. Subscribe to Reactions at <a href="http://bit.ly/ACSReactions">http://bit.ly/ACSReactions</a> and follow us on Twitter <a href="mailto:@ACSReactions">@ACSReactions</a>.

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advance the broader chemistry enter-

prise and its practitioners for the benefit of Earth and all its people. The Society is a global leader in promoting excellence in science education and providing access to chemistry-re-

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does not conduct chemical research. As a leader in scientific information solutions, its CAS division partners with global innovators to accelerate break-

throughs by curating, connecting and analyzing the world's scientific knowledge. ACS' main offices are in Washington, D.C., and Columbus, Ohio.

Source: ACS







#### **Emerald Innovation NH 500: New Phosphorus Flame Retardant from LANXESS**

- Phosphorus-based, non-halogen flame retardant for engineering plas-
- Efficient chemistry platform
- High thermal stability
- Excellent mechanical properties of end products

merald Innovation NH 500: New L'non-halogen flame retardant from LANXESS. The phosphorus-based additive is designed primarily for use in glass fiber-reinforced plastics used to manufacture products for the electrical and electronics (E&E) industry.

Specialty chemicals company LANXESS has developed a non-halogen flame retardant that will soon be offered under the brand name Emerald Innovation NH 500. The phosphorus-based additive is designed primarily for use in glass fiber-reinforced plastics used to manufacture products for the electrical and electronics (E&E) industry.

#### Outstanding flame retardant properties

The new polymer additive from LANXESS its very good flame retardant ties in combination with other addi-

tives and easily meets the relevant fire safety tests. A glass-fiber-filled PA66 formulated with Emerald Innovation NH 500 passed the UL 94 fire test of the U.S. testing company Underwriters Laboratories Inc. with an outstanding V-0 classification at 0.8 mm test specimen thickness. In glow-wire testing, the highest intended glow-wire flammability Index (GWFI) of 960 °C is achieved without difficulty by a specimen of 3

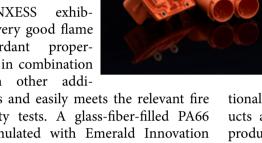
mm thickness. The glow-wire ignition temperature (GWIT) was measured up to 875 °C which is significantly higher than that of the reference (775 °C).

#### Mechanical properties maintained

LANXESS has developed versatile formulations for its new flame retardant. They ensure that the mechanical properties and other func-

tional characteristics of the end products are maintained. In addition, the product can boast excellent thermal stability and a unique morphology. The combination of very good flame retardant properties and high dimensional stability in engineering thermoplastics, such as polyamide 6 and 66 (PA6, PA66), offers compounders and processors promising applications.

Source: Lanxess



#### **Air Products Membrane Solutions to Introduce** PRISM® GreenDry Membrane Separator at RNG **WORKS Technical Workshop & Trade Show Expo**

Air Products (NYSE:APD), the global leader in the production of gas separation and purification membranes, will highlight its new PRISM® GreenDry membrane separator for the biogas industry at the RNG Works Technical Workshop and Trade Expo at the Music City Center, in Nashville, Tennessee, from September 20-22.

"As a leader in membrane technology for 30 years, Air Products is continually working to innovate and provide

the best solutions for our customers. With the addition of PRISM® GreenDry, we are excited to offer a reliable technology in a new application to assist the biogas industry as it continues to



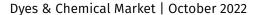
build a more sustainable future," said

Dr. Erin Sorensen, General Manager, Air Products Membrane Solutions.

The PRISM® GreenDry membrane separator provides customers in the biogas industry with a dehydration







solution that will add flexibility to a customer's upgrading system to ultimately produce a clean stream of renewable natural gas.

Air Products Membrane
Solutions specialists will
be on hand at the Air Products' booth #215 to share
information on a range
of solutions available for
the biogas industry. Air

Products Membrane Solutions specializes in the development of hollow fiber membrane separators and systems for onsite gas generation. Air Products designs, engineers, manufactures, and markets a full portfolio of PRISM® Membrane Separators, Marine Systems, and Engi-

neered-to-Order Systems
to protect lives and goods
at sea, on land, and in the
air. Air Products' systems
are also designed to create
more sustainable energy
sources and raise productivity across a variety of
industries and applications.

Source: Air Products

### Lummus Novolen Technology Selected for Polypropylene Plant in China

HOUSTON, Sept. 27, 2022 / PRNewswire/ -- Lummus Technology, a global provider of process technologies and value-driven energy solutions, announced that Lihuayi Weiyuan Chemical Co., Ltd. selected its Novolen PP technology for a new unit in Shandong Province, China. Lummus' scope includes the technology license for the PP unit as well as basic design engineering, training and services.

"We are grateful for Lihuayi Weiyuan's selection of Novolen, and proud to support our customer across the full value stream, from propane feedstock to high-value polypropylene product," said Leon de Bruyn, President and Chief Executive Officer of Lummus Technology. "Our technology has proven to yield our customers significant CAPEX and OPEX advantages, coupled with the ability to produce a comprehensive range of high-performance polymers."

In addition to PP technology, Lummus also licensed its CATOFIN® technology to Lihuayi Weiyuan. In 2021, Lihuayi

Weiyuan selected Lummus as the licensor for its CATOFIN propane dehydrogenation technology for a 600 KTA unit in China.

Lummus Novolen Technology GmbH licenses the industry leading Novolen® polypropylene technology and provides engineering, technical support and advisory services to the refining industry. The Novolen portfolio includes NPM™ advanced process controls system, PPConnect™ digital data analysis platform and Lummus O3S<sup>™</sup> operator training simulator. The Novolen technology includes NEON® low volatile extrusion equipment

and components, Novolen ComPPact® process reactors, which can be used by implementing the proprietary VRC® reactor system, allowing for maximum product range and capacity flexibility. Novolen catalysts are available to licensees to produce high-performance and special polypropylene grades and include Novolen CirPPlus<sup>™</sup> recycled polymers, Novolen Enhance™ performance polymers, PPure<sup>™</sup> polymers and Novocene® metallocene catalysts.

Source : PRNEWSWIRE







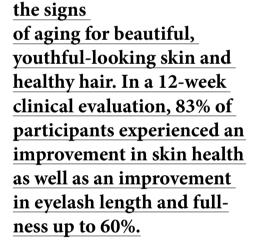
#### Revolutionary Hair and Skin Care Company Gives Away \$100,000 Worth of Product at Denver Startup Week

BOULDER, Colo., Sept. 27, 2022 / PRNewswire/ -- NULASTIN® made a splash at Denver Startup Week this past Friday, giving away \$100,000 worth of product to innovative entrepreneurs. Attendees swarmed around NULAS-TIN'S booth to get their hands on free cutting-edge lash and brow-enhancing serums, a hair growth support treatment, and anti-aging skin care products. Attendees were captivated as the team talked about what makes NULASTIN'S products so different from other beauty brands - its proprietary, bio-evolutionary Elastaplex® Technology that restores "the youth protein" elastin, addressing aging at the root.

"Being an entrepreneur can be difficult and let's be honest, as with any demanding job, it can really exhaust and age you. I wanted to celebrate and give back to the startup community by sharing truly effective products that optimize confidence and vitality." – Leah Garcia, Founder & CEO, NULASTIN

During the aging process bodies naturally produce less elastin, and symptoms of aging like sagging skin and wrinkles start to occur. Based on science originally developed to aid in wound healing and tissue regeneration, the NULASTIN collection has been scientifically proven to help the

body stimulate the replenishment of elastin and reduce



NULASTIN Founder & CEO Leah Garcia, was recently named for The Denver Business Journal's 2022 Outstanding Women in Business award. Leah is also a mentor with The Founder Institute. She is heavily invested in the work of early-stage startup founders and knows first-hand about the hard work and dedication it takes to create a must-watch

company.

NULASTIN, headquartered in Boulder, Colorado is the original, undisputed leader in helping people look and feel their best through novel elastin replenishment. Its line of skin and hair care products incorporate the most recent discoveries in

cell biology, molecular biology, and biomaterials. Female-owned and founded in 2016 in Boulder, Colorado, NULAS-TIN is redefining what it means to be a beauty brand by focusing on performance-driven, scientifically-backed, ethically-derived results. Visit https://nulastin.com/ to see 'before-and-after' photos and get 15% off all NULASTIN products.

Source: PRNewswire

## Arkema Joins Spanish Consortium to Enhance Circularity for Powder Coatings

Arkema, together with a consortium of companies, is exploring and advancing the recyclability of post-consumer PET (from bottles and other plastic items) to regain monomers for reuse

as raw materials for more sustainable polyester powder resins for the coating market.

The project, titled Suschempol ("En-

hancing circularity by using renewable monomers and sustainable chemical strategies of polymer upcycling"), is led by the Spanish Superior Council of Science Research (CSIC) and was founded







by the Spanish Ministerio de Ciencia e Innovación and the Agencia Estatal de Investigación as part of NextGenerationEU Initiative.

"This project was a natural fit for Arkema," said Neil Tariq, global business director for coatiung resins at Arkema. "As a leading provider of polyester resin for the solvent-free powder coating technology, we are constantly exploring new path, partnerships and scientific research that advance the circularity of our products. We are excited by the long-term goals of this project and look forward to

sharing more innovation with our customers and partners in the years to come."

Arkema is a leader in the offering for powder coatings, as part of the company's low volatile organic compounds (VOCs) technologies for the coating industry, together with waterborne, UV/LED/EB and high solid systems.

Powder coatings are very well positioned to further sustainability across many very demanding household and industrial applications, including home appliances and furniture, automobiles, sports

> stadiums and more. This coating process is optimized to produce a high-quality finish while using the minimal energy, minimum waste and time. Additionally, powder that doesn't end up on

the product can be more easily collected and recycled, or even reused.

Source: Coatings World

#### **New Cooperation Enables Evonik to Provide Tire Industry with Silica Made from Biobased Raw Materials**

Evonik has entered a strategic cooperation with the Pörner Group, Austria and Phichit Bio Power Co., Ltd., Thailand, to supply sustainably precipitated ULTRASIL® silica to tire manufacturers.

- CO2footprint reduction of 30% supports tire industry customers achieve sustainability ambitions
- Collaboration is first step towards biobased silica and meeting growing demand for renewable raw materials
- New plant commissioning expected in 2024

 ${f B}$  angkok, Thailand. Evonik, one of the world's leading silica producers, has entered a strategic cooperation with the Pörner Group, Austria and Phichit Bio Power Co., Ltd., Thailand, to supply sustainably precipitated ULTRASIL® silica to tire manufacturers. It is made from

sodium silicate derived from rice husk ash (RHA), that is produced exclusively with biomass energy sources. In this way, the global tire industry is supported in its quest for carbon neutrality.

Silica is the key-ingredient for fuel-efficient tires, reducing the fuel consumption by up to eight percent compared to conventional passenger car tires. With the sustainable ULTRASIL® silica a next step will be taken to reduce the carbon footprint of the silica significantly. The silicate, which is the essential raw material to produce the tire silica will be biobased and made with green energy. The demand for sustainable raw materials in tires is increasing significantly. However, until now only very small quantities of biobased silica are available in the market, which do not meet the rising global demand.

The new collaboration addresses this shortage and the industry's ambition to

increase its use of renewable raw materials. Pörner Group's pioneering process to generate the silicate from RHA uses biomass energy that enables Evonik to deliver a CO2 footprint reduction of up to 30% compared to its standard silica. Phichit Bio Power Co., Ltd. with its existing rice mills and biomass power plants, licenses Pörner Group's technology and will invest in a new RHA sodium silicate plant in Thailand. This operation will allow a reliable supply of biobased water glass for Evonik. This is required to meet the global tire industry's demand for more sustainably produced silica.

"This cooperation is a strategically important first step in the further development of our product portfolio. For the first time,







we can offer our customers an ULTRASIL® silica with an improved sustainability profile, thus we can support our customers' carbon reduction and circularity goals," said Emmanuel Auer, Head of Silica business line. "Further measures at other sites in our global production network are also planned to expand our renewables offering to meet global demand more sustainably."

"At our demonstration plant in Germany we have verified the superior quality of the bio-silicates over several years of research and development in a pre-qualification process with Evonik," said Gerhard Bacher, CEO of Pörner Germany. "Our patented process is based on the ash of biomass power plants fired with rice husks, where the Pörner Bio-Silicate Technology intelligently uses the natural filtering ability of the rice plant to produce high-quality sodium silicates for many applications - above all to produce the silica used in the tire industry. Now, through this cooperation, it is possible to produce Bio-Silicates on an industrial scale and significantly reduce the CO2 footprint compared to the conventional processes. We are starting to decarbonize the silicate processing

industry worldwide."

"The environmental benefits of producing silicate from rice husk ash are clear, but equally as important are the benefits the cooperation brings for our stakeholders in the region. For example, through the creation of new jobs for local communities around the plant, or for farmers who will be able to connect to our electricity generation network," said Banjong Tangjitwattanakul, President of Phichit Bio Power Co., Ltd. "We are proud to play our part in realizing this vision to supply the quantities of silicates from rice husk ash that will support the global silica production market to reduce its carbon footprint and help the planet.

Source : Evonik

### BASF Coatings Inaugurates New Electrocoat Research Center

- The newly built e-coat research center offers BASF Coatings unique technical possibilities worldwide
- With this innovative research center, BASF's Coatings division is making a further contribution to its customers' success
- In addition to quality and efficiency, occupational health and safety were given high priority in planning and construction

BASF Coatings has inaugurated a new research center for electrophoretic dip coating at its headquarters in Münster-Hiltrup, Germany. The electrophoretic or cathodic dip coat (e-coat) protects the surfaces, edges and cavities of a car body against corrosion, and evens out the roughness of the pre-treated metal surfaces, thus providing the optimum basis for the application of the subsequent paint layers.

"We invested 15 million euros in the new building at the Münster site," said Mathias Schöttke, Managing Director BASF Coatings GmbH. "The health and safety of our colleagues is particularly important to us at BASF. This is why, during the planning stage, we have not only given high priority to the quality and efficiency of the coating process, but also to ergonomics and occupational safety right from the start."

Frank Naber, head of the Automotive OEM Coatings Solutions EMEA business unit at BASF Coatings emphasized: "In our new e-coat research center, we can simulate our customers' processes and paint systems. We can coat pre-treated original parts of our customers under the conditions of their individual paint lines in a 2,000-liter dip tank and bake them in a chamber oven. These parts can be doors, fenders or hoods." In addition, the research center has two ultra-filtration and filtration stands with which the quality and stability of new e-coats can be tested under the conditions of the customers already before the tank

is being filled for the first time. "In this way, we can ensure that the coating quality is at a very high level immediately after having changed over to a new e-coat material, and that it meets the customer's specification. Thanks to these technical conditions, we are making another significant contribution to the success of our customers," said Naber.

The center will mainly be used for the CathoGuard\* 800 e-coat technology, which has already been applied to more than 100 million vehicles worldwide. The product does without organic tin compounds and has a very low solvent content. An optimized film thickness distribution permits material to be saved and, at the same time, guarantees protection of the entire body thanks to its good throwing power. The product also contributes to sustainability by reducing wastewater, which in turn reduces the amount of fresh water required for the process.

Source : BASF







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Contact info:

+91-877-9830-330 +91-913-7316-486 info@chemicalmarket.net chemicalmarket.net@gmail.com

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