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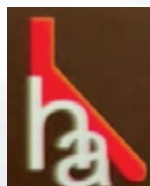
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Ammonium Aluminium Sulphate	7784-25-0
Calcium Acetate	7440-70-2
Calcium Chloride Di Hydrated,	10035-04-8
Copper Sulphate Pentahydrate	7758-99-8
Dicalcium Phosphate Anhydrous	7757-93-9
Dicalcium Phosphate Dihydrate	7789-77-7
Ferrous Sulphate Heptahydrate	7782-63-0
Magnesium Chloride Hexahydrated	7791-18-6
Magnesium Sulphate Heptahydrate	10034-99-8
Potassium Acetate	127-08-2
Potassium Aluminium Sulphate	7784-24-9
Potassium Chloride	7447-40-7
Potassium Sulphate	7778-80-5
Sodium Acetate	127-09-3
Sodium Bicarbonate	144-55-8
Sodium Carbonate Anhydrous	497-19-8
Sodium Chloride	7647-14-5
Tricalcium Phosphate	7785-87-4
Zinc Sulphate Heptahydrate	7446-20-0
Zinc Sulphate Monohydrate	7446-19-7

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Products	CAS
• 3,4-Dimethylpyrazole [DMP]	2820-37-3
• 3,4-Dimethylpyrazole Phosphate	2820-37-3
• Sucralfate	202842-98-6
• Isatoic Anhydride	54182-58-0
• 3-Chloroaniline [MCA]	118-48-9
• 5-Chloro Thiophene-2-Carboxylic Acid [5CTA]	108-42-9
• 2,6-Dimethyl-1-Indanone	24065-33-6
• 2-Amino-4-methoxy-6-methyl-1,3,5-triazine [AMT]	66309-83-9
• Di-Bromo-5-Methyl 5-Phenyl Hydantoin [DBH]	1668-54-8
• 5-tert-Butyl-m-Xylene	98-19-1
• 1-Chlor-2-methoxy naphthalene	13101-92-3
• 2-Bromo-6-methoxy naphthalene	5111-65-9

Products	CAS
• 3-Ethyl-4-methyl-3-pyrrolin-2-one [EMPO]	766-36-9
• Acetonitrile	75-05-8
• 4-Fluorophenol	371-41-5
• Benzethonium Chloride (BTC)	121-54-0
• 2-Amino-5-chlorobenzoic Acid [ACBA]	635-21-2
• Decanenitrile (DCN)	1975-78-6
• 5-Methyl 5-Phenyl Hydantoin [MPH]	6843-49-8

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Product	Cas
Iodophor	39392-86-4
Lauryl Pyridinium Chloride	104-74-5
Benzalkonium Chloride 50% / 80%	8001-54-5
2,4,6-Trichlorophenol-Na Salt	3784-03-0
Chloramine-T	127-65-1
Nonyl Phenoxy Polyethylene Oxy	
Ethanol Iodine Complex	11096-42-7
Linear Alkyl Benzene Sulphonic Acid	
Sodium	27176-87-0

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Mfg.& Exporter of : Dyes Intermediates

PRODUCTS	CAS No.
• 2 Amino Phenol 4 Sulphonamide	98-32-8
• 2 Amino Phenol 4 N Methylsulphonamide	80-23-9
• 2 Amino Phenol 4 Sulphonic Acid	80-20-6
• 2 Amino Phenol 4 Sulphoanilide	98-37-3

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No	Exhibitions	Date	Place
1	<a href="#">CPhI North America</a>	Apr 25-27, 2023	PHL
2	<a href="#">CPhI Worldwide Germany</a>	Oct 24-26, 2023	Messe Frankfurt, Germany
3	CPhI Middle East & Africa 2023	TBD	TBD
4	<a href="#">CPhI China- Virtual CPhI</a>	June 19-21, 2023	Shanghai, China
5	<a href="#">CPhI Japan</a>	Apr 19-21, 2023	Tokyo, Japan
6	<a href="#">CPhI Korea</a>	30 Aug - 1 Sept, 2023	COEX, Seoul, Korea
7	<a href="#">CPhI India</a>	Nov 28-30 2023	Noida, India
MECS (Coating Show)			
1	<a href="#">Asia Pacific Coatings Show</a>	Sept 06-08, 2023	Bankok, Thailand
2	<a href="#">Saudi Arabia Coatings Show</a>	Feb 13-15 2023	Dammam Saudi Arabia
3	<a href="#">Middle East Coatings Show</a>	June 19-21, 2023	Egypt
4	<a href="#">Coatings For Africa 2024</a>	TBD	Johannesburg, South Africa
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DYE+CHEM			
1	Dye+Chem Morocco International Expo	TBD	Morocco
2	Dye+Chem Sri Lanka International Expo	TBD	Colombo Sri Lanka
3	<a href="#">Dye+Chem Bangladesh International Expo</a>	Sept 13-16 2023	Bangladesh
4	<a href="#">Dye+Chem Brazil International Expo</a>	TBD	Brazil
Red Carpet Events			
1	5th Bangladesh Int'l Dyes, Pigments and Chemicals Expo	TBD	Dhaka, Bangladesh
Turkey (Arkim Group)			
1	<a href="#">InterDye Textile Printing Eurasia</a>	TBD	Istanbul
2	<a href="#">Paint Istanbul TURKCOAT</a>	Feb 7-9, 2024	Istanbul
3	Paint Expo Eurasia	Apr 09-12, 2024	Istanbul
Other Exhibitions			
1	<a href="#">Paint India</a>	Mar 02-03, 2023	JIO World Convention Center, Mumbai
2	<a href="#">Expo Paint and Coating</a>	July 13-15, 2023	New Delhi, India
3	CIPI	TBD	Mumbai, India
4	<a href="#">Chemspec Europe</a>	May 24-25, 2023	Messe Basel, Switzerland
5	<a href="#">ChemUK Expo</a>	May 10-11, 2023	NEC, Birmingham, UK
6	American Coatings Show	TBD	Indianapolis
7	<a href="#">China Coat China</a>	Dec 06-08, 2022	China Import and Export Fair Complex, Guangzhou
8	Interdye China	TBD	China
9	<a href="#">Paint Expo Germany</a>	Apr 09-12, 2024	Messe Karlsruhe Germany
10	<a href="#">India Chem 2023</a>	TBD	Pragati Maidan, New Delhi



CHENNAI PRICE TREND – 8.02.2023		
Inorganic Chemicals	No of Units Per Pack	Price (Rs/Kg)
Acid Slurry (Soft)	50 Kgs	138.00
Alum- Ferric	50 Kgs	22.00
Ammonium Bicarbonate	25 Kgs	35.00
Ammonium Bi fluoride [sugar-grade]	50 Kgs	178.00
Ammonium Carbonate	50 Kgs	90.00
Ammonium Chloride	50 Kgs	75.00
Ammonium Nitrate	50 Kgs	30.00
Ammonium Phosphate (Mono)	50 Kgs	135.00
Ammonium Sulphate	50 Kgs	29.00
Antimony Trioxide	50 Kgs	1400.00
Barium Chloride	50 Kgs	58.00
Bleaching Powder (33% Cl)	25 Kgs	19.00
Borax (Granular)	50 Kgs	84.00
Boric Acid (Tech.)	50 Kgs	160.00
Calcium Carbonate ( Activate)	50Kgs	18.00
Calcium Carbonate (Precipitated)	50 Kgs	17.00
Calcium Chloride Lump 70%	50 Kgs	14.00
Calcium Chloride-Anhydrous	50 Kgs	24.00
Camphor Oil	200 Litres	135.00
Caustic Potash (Flakes)	50 Kgs	143.00
Caustic Soda (Flakes)	25 Kgs	54.00
Caustic Soda (Prills)	50 Kgs	98.00
Chromic Acid Flakes	50 Kgs	345.00
Chlorinated Xylene	25 Kgs	85.00
Copper Sulphate	180 Kgs	220.00
Di ammonium Phosphate	50 Kgs	34.00
Diocetylmalite	180 Kgs	82.00
Ferric Chloride (Anhydrous)	Naked	39.00
Ferrous Sulphate – crystals	50 Kgs	16.00
Hydrochloric Acid	Naked	6.00
Hydrogen Peroxide 50%	50 Kgs	39.00
Hyflosupercell	22.7 Kgs	138.00
Litharge	50 Kgs	220.00
Lithopone B301(China)	25 Kgs	112.00
Magnesium Carbonate (Indian)	50 Kgs	130.00
Magnesium Sulphate	50 Kgs	18.00
Mercury	34.5 Kgs	7800.00
Napthaline Balls	50 Kgs	130.00
Nickel Chloride	25 Kgs	725.00
Phosphoric Acid (85% Tech)	50 Kgs	125.00
Potassium Carbonate (Powder)	25 Kgs	178.00
Potassium Carbonate (Granules)	25 Kgs	145.00
Potassium Nitrate	50 Kgs	150.00
Potassium Permanganate [Tech]	50 Kgs	205.00
Potassium Permanganate [Pure]	50 Kgs	245.00
Potassium Phosphate (Di)	50 Kgs	158.00
S.I.E.S	50 Kgs	63.00

Soda Ash Light	50 Kgs	48.00
Sodium Bicarbonate	50 Kgs	42.00
Sodium Bichromate	50 Kgs	190.00
Sodium Bisulphite	50 Kgs	45.00
Sodium Chlorite 50% (India)	50 Kgs	240.00
Sodium Chlorite 80% (India)	50 Kgs	280.00
Sodium Cyanide	50 Kgs	650.00
Sodium Fluoride	50 Kgs	150.00
Sodium Formate	50 Kgs	65.00
Sodium Hexameta Phosphate 68%	50 Kgs	148.00
Sodium Hydrosulphite [China]	50 Kgs	180.00
Sodium Metabisulphite	50 Kgs	48.00
Sodium Nitrate	50 Kgs	92.00
Sodium Nitrite (China)	50 Kgs	90.00
Sodium Silicate	Noted	28.50
Sodium Sulphate (Anhydrous)	50 Kgs	17.00
Sodium Sulphide 50-52% (Flakes)	50 Kgs	58.00
Sodium Sulphide 58-60% (Flakes)	50 Kgs	52.00
Sodium Sulphite 92%	50 Kgs	56.00
Sodium Tri polyphosphate	50 Kgs	112.00
Titanium Dioxide Anatase	25 Kgs	200.00
Titanium Dioxide (Rutile - R-902)	25 Kgs	256.00
Trisodium Phosphate	50 Kgs	42.00
Zinc Chloride Powder (Tech.)	50 Kgs	90.00
Zinc Oxide White Seal	50 Kgs	265.00
Zinc Stearate [Pure]	25 Kgs	220.00
Zinc Sulphate (Tech.)	50 Kgs	58.00
Organic Chemicals	No of Units Per Pack	Price (Rs/Kg)
Acetic Acid Glacial	35 Kgs	66.00
Acetone	160 Kgs	78.00
Benzene	196 Ltrs.	87.00
Benzyl Alcohol	200 Kgs	200.00
Bisphenol-A (Russian)	25 Kgs	180.00
Bisphenol-A (Russian)	170 Kgs	105.00
n-Butyl Acetate	165 Kgs	115.00
Butyl Cellosolve	195 Kgs	115.00
Camphor	25 Kgs	850.00
Cellosolve –Ethyl	195 Kgs	152.00
Chloroform	300 Kgs	55.00
Citric Acid (Anhy)	25 Kgs	90.00
Citric Acid (Mono)	25 Kgs	75.00
Cresote Oil	50 Kgs	64.00
Cyclohexanone	190 Kgs	140.00
D D Turpentine	200 Ltrs.	145.00
Diacetone Alcohol	195 Kgs	135.00
Diethylene Glycol	230 Kgs	84.00
Dimethyl Formamide	195 Kgs	145.00
Diocetyl Phthalate	200 Kgs	142.00
Di-Pentene	200 Kgs	192.00





EDTA Acid	25 Kgs	148.00
EDTA Disodium	25 Kgs	398.00
EDTA Tetrasodium	25 Kgs	348.00
Ethyl Acetate	185 kgs	102.00
Ethylene Dichloride	200 Kgs	65.00
Ethylene Glycol-mono	230 Kgs	67.00
Formaldehyde	65 Kgs	30.00
Formic Acid	35 Kgs	72.00
Formic Acid	250 Kgs	75.00
Hexamine – Tech	50 Kgs	125.00
n-Hexane	160 Litrs	66.00
Hydroquinone (Imported)	25 Kgs	1,150.00
Isopropyl Alcohol	160 Kgs	130.00
Isopropyl Alcohol (Refill)	160 Kgs	108.00
Maleic Anhydride	25 Kgs	125.00
Methyl Ethyl Ketone	166 Kgs	142.00
Methyl Isobutyl Ketone	160 Kgs	158.00
Methyl Isobutyl Ketone (Refill)	160 Kgs	148.00
Methylene Dichloride	250 Kgs	70.00
Methylene Dichloride (Refill)	250 Kgs	62.00
Mineral Turpentine Oil	50 Kgs	120.00
Monochloro Phenol	50 Kgs	120.00
Nitrobenzene	200 Kgs	135.00
Octanol (2-ethylhexanol)	160 Kgs	135.00
Oleic Acid	50 Kgs	140.00
Oxalic Acid (Punjab)	50 Kgs	66.00

Paraffin Wax ( White)	50 Kgs	110.00
Para formaldehyde 91%	25 Kgs	115.00
Perchloroethylene	320 Kgs	165.00
Phenyl Liquid	230 Kgs	115.00
Phthalic anhydride	25 Kgs	120.00
Pine Oil 22%	200 Litrs	110.00
Pine Oil 40%	200 Litrs	190.00
Polyethelene Glycol 400	230 Kgs	122.00
Polyethelene Glycol 600	230 Kgs	140.00
Propylene Glycol	215 Kgs	125.00
Poly Aluminium Chloride	25 Kgs	30.00
Red Lead	50 Kgs	210.00
Renine	180 Kgs	72.00
Rosin	17 Kgs	130.00
Sodium Acetate	50 Kgs	37.00
Sodium Benzoate	50 Kgs	90.00
Sorbitol	250 Kgs	55.00
Stearic Acid ( cosmetic)	50 Kgs	110.00
Styrene Monomer	185 Kgs	125.00
Terpeneol Perfumery	25 Litrs	260.00
Thiourea	25 Kgs	225.00
Toluene	200 Ltrs	108.00
Trichloroethylene	280 Kgs	165.00
Triethanolamine	210 Kgs	125.00
Vinyl Acetate Monomer	185 Kgs	195.00
Xylene Mixed	185 Kgs	108.00
O-Xylene	185 Kgs	140.00

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MUMBAI PRICE TREND – 8.02.2023	
Organic & Inorganic Chemicals	Price (Rs/Kg)
ACRYLIC ACID	115+
DCDA	260+
NBA	104+
BUTYL ACETATE	110+
CAUSTIC POTASH	146+
ACETONE	76+
MDI	165+
BAM	120+
EDC	46+
DA	102.00
IPA	97+
MEK	128.00
OCT	128.00
NPAC	125.00
PG	128.00
CYCLO	137.00
TEA	95+

BC	110+
CL	40+
MPD	185.00
N.PROPANOL	145.00
HEXAMINE	110.00
DMC	100.00
MDI	185.00
THF	220.00
ETHYL ACETATE	93+
FORMAL	20.25+
TOLUENE	94+
GLYCERINE	73+
PINE OIL	118+ INDL
SMBS	36+ KG
P.G TECH	115+
OXYLENE	114+
MEG	58+
DEG	75+
METHANOL	36+
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Product Name	Qty	Grade
Corium Z190 // Corium - ITW	150	Any
Details : Supply of corium Z-190		

Product Name	Qty	Grade
Ethylbenzene LR // 100-41-4 // E03232	1 Litres	Industrial
Details : Ethylbenzene LR / 100-41-4 / E03232, Grade, 0.0000 LTR/2.5LTR		

Product Name	Qty	Grade
Sulphur Granules	30 Tonnes	Industrial
Details : GRANULATED SULPHUR		

Product Name	Qty	Grade
Violet FRL // Disperse Violet 26 // 12217-95-7	1 Kgs	Technical
Details : Please Quote 1 kg of 12217-95-7 including freight to Pasadena, California, USA		

Product Name	Qty	Grade
Phthalimide // 85-41-6	1000 Kgs	Industrial
Details : Pls quote for Phthalimide Acid		

Product Name	Qty	Grade
Ethyl Trifluoroacetate // Ethyl Trifluoroacetate // 383-63-1	3000 Kgs	Technical
Details : please quote price of ETFA for 3000 kgs.		

Product Name	Qty	Grade
Potassium Carbonate Granular	750 Kgs	Industrial
Sodium Nitrate	1500 Kgs	Industrial
Caustic Soda Flakes	2000 Kgs	Industrial
Details : GACL Rayon Grade Potassium Carbonate - Equal to UBID Korea		

Product Name	Qty	Grade
Glycerine	5000 Kgs	Industrial
Details : Please quote your best price		

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Product Name	Qty	Grade
Rangday Beta Blue 604 // PB 15:3	40 Tonnes	Industrial

Details : My name is Milton Ribeiro and I am representing the company Vivacor Indústria de Tintas Brazil and we are looking for new suppliers for organic pigments for printing inks water and solvent based. Vivacor is a very traditional ink producer in Brazil with more than 50 years in the market. Nowadays we are importing pigments from India, around 60 ton/year of PB 15:0 and PB 15:3. If you are interested in starting a business relationship with us, please let me know and we can provide more details about of our needs and consumption. I am looking forward to hearing from you. Best Regards, Milton Ribeiro

Product Name	Qty	Grade
2-Aminobenzotrifluoride / CAS 88-17-5.	500 Kgs	Technical
5-acetylacetamidobenzimidazolone /CAS: 26576-46-5 .	2 Tonnes	Technical
Details : 1) We need 500 kilos for pigment production 2) We need 2 Tonnes		

Product Name	Qty	Grade
Succinic Acid 99%-food grade	80 Tonnes	Chemical
Details : My Client Required Succinic Acid 99%-food grade Please provide me Quotation along with Coa & MSDS Qty: 80MT Delivery Location: Mumbai, INDIA Payment under LUT Make : Imported/Domestic Please do the needful		

Product Name	Qty	Grade
Corium Z202R // Corium - ITW	24 Cans	None
Details : Corium Z202R Package size: 500 ml/ bottle Manufactured by: ITW performance polymer & fluid Korea or China Composition: Synthetic Alkyd Oxidizing Insulating Enamel Appearance: Red liquid spray Odour: Solvent Dielectric strength: 1400 V/ mil Tack free dry: 60 minutes Heat resistance: >72 hrs. at 135 degree centigrade.		

Product Name	Qty	Grade
n-Butyllithium solution 2.5 M in THF // n-Butyllithium solution 2.5 M in THF // 109-72-8 // B016	1 Mililitres	Chemical
Details : Research		







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Product Name	Qty	Grade
Strontium Carbonate Powder Imported	100 Kgs	Industrial
Metaldehyde	100 Kgs	Technical
Azidotetrazole	100 Kgs	Technical
Strontium Carbonate	1000 Kgs	Technical
Phenolic Resins	1000 Kgs	Technical 


Details : 1) We are interested to buy strontium carbonate powder imported solvay material 2) We are interested to buy metaldehyde and Azidotetrazole in bulk for industrial applications 3) we are interested to buy metaldehyde and Azidotetrazole in bulk for industrial applications 4) we are interested to buy strontium carbonate powder imported 5) we are interested to buy phenolic resins


Product Name	Qty	Grade
Epoxy Novolc Resin	200 Kgs	Chemical
N75 Hardner	600 Kgs	Chemical
PGE Epoxy Diluent	400 Kgs	Chemical
Cycloaliphatic Amine Epoxy Hardner	500 Kgs	Chemical
Ancamine 2753	500 Kgs	Chemical 
Epoxy Silane 6040	50 Kgs	Chemical
Details : Require Quotation		


Product Name	Qty	Grade
861229-15-4	1000 Tonnes	Industrial 
Details : This is an additive for waterproofing membrane and purity more than 90%		


Product Name	Qty	Grade
Hydroxyzine HCL // 1244-76-4	1 Grams	Not Applicable 
Details : qty 1 gm; CAS 1244-76-4 for R&D use		


Product Name	Qty	Grade
Violet FRL // Disperse Violet 26 // 12217-95-7	1 Kgs	Technical 
Details : Please quote 1 kg of 12217-95-7 including freight to Pasadena, California, USA		


Product Name	Qty	Grade
Violet FRL // Disperse Violet 26 // 12217-95-7	1 Kgs	Technical 
Details : please quote 1 kg of 12217-95-7 including freight to Pasadena, California, USA		


Product Name	Qty	Grade
861229-15-4	1000 Tonnes	Industrial 
Details : This is an additive for waterproofing membrane and purity more than 90%		


Product Name	Qty	Grade
Hydroxyzine HCL // 1244-76-4	1 Gram	Not Applicable 
Details : qty 1 gm; CAS 1244-76-4 for R&D use		

Product Name	Qty	Grade
Potassium Carbonate Granular	750 Kgs	Industrial
Sodium Nitrate	1500 Kgs	Industrial
Caustic Soda Flakes	2000 Kgs	Industrial 
Details : Require following grade Caustic - GACL Rayon Grade Potassium Carbonate - Equal to UBID Korea		

Product Name	Qty	Grade
CAS NO 112-12-7 FISCHER'S BASE	2000 Litres	Any 
Details : Required On Regular Basis. Min Qty 2000 Ltr.		

Product Name	Qty	Grade
861229-15-4	200 Litres	None 
Details : For construction material		

Product Name	Qty	Grade
Modified starch	1 Tonnes	Technical 
Details : For our won purpose		


Product Name	Qty	Grade
Trifluoromethyl benzene (CAS 98-08-8)	300 Kgs	Industrial 
Details : I Need Trifluoromethyl benzene (CAS 98-08-8) Quantity : 300 KGS		



# Buy Enquiries

Post your BUY Enquiries:

<https://www.chemicalmarket.net/search>

Product Name	Qty	Grade
Adipic Acid LR // 124-04-9 // A06830	1 Kgs	Any 


Details : Reliable producers of Adipic Acid and another chemical products worldwide. Please feel free to contact me in order to see if we could work together

Product Name	Qty	Grade
TRANS, TRANS-2,4-HEXA-DIENYL ACETATE CAS:1516-17-2 HS CODE:29153900	2 Tonnes	Chemical

Calcium Stearate // 29157090 // Broadways Chemtech	10 Tonnes	Any
--	-----------	-----

DEFOAMER // 126-86-3 // 38111900 // LL 9900	10 Tonnes	Any
---	-----------	-----

Details : • 2 tons stock TRANS,TRANS-2,4-HEXADIE-NYL ACETATE CAS:1516-17-2 HS CODE:29153900 10 TONS PER YEAR by partial shipments. need provide MSDS/Packing certificate


• Need CAS:1516-17-2 HSN:29153900 Please contact me if could provide thanks 

• Inquiry CAS:1516-17-2

Product Name	Qty	Grade
MELFLUX 2651 F // Poly-carboxylic Ether - PCE - Powder // 39072090 // BASF CONSTRUCTION POLYMERS GmbH	100 Cans	Industrial


"	150 Drums	Industrial
---	-----------	------------

"	150 Drums	Industrial
---	-----------	------------


Details : 1) We need 150 sets(Part A & B), 500 ML Cans, Corium 4040 

2) Need Corium 4040. Qty-150 sets.

3) We need Curium 4040. Qty-150 sets.

Product Name	Qty	Grade
N-ETHYL ORTHO// PARA TOLUENE SUL-FONAMIDE // 8047-99-2	100 Tonnes	- 

Details : PL SEND MORE DETAILS WITH PRICE

Product Name	Qty	Grade
Pyridine - 3 - Sulfonic Acid // (P3SA) // 636-73-7 Virgin Pure	100 Grams	- 

Details : P3SA High Purity

Product Name	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 : 1) We are interested to buy strontium carbonate powder imported solvay material

2) We are interested to buy metaldehyde and Azido-tetrazole in bulk for industrial applications


3) We are interested to buy metaldehyde and Azido-tetrazole in bulk for industrial

4) We are interested to buy strontium carbonate powder imported 


5) We are interested to buy phenolic resins

Product Name	Qty	Grade
Corium 4040 // Corium - ITW	150 Set	None 


Details : We are interested to buy corium 4040 150 set

Product Name	Qty	Grade
2-Butoxy Ethanol LR // 111-76-2 // B13132	3000Kgs 	Chemical


Details : Share the contact details for take it further

Product Name	Qty	Grade
Poraver // Light Weight Aggregates // 32074085	10 Kgs 	Technical

Details : grain size in mm : 0.1-0.4

Product Name	Qty	Grade
2-Thiophene Ethanol // 5402-55-1	500 Kgs	Technical 

Details : Please offer your best quote, purity & lead time for below. 1) Product Name: Thiophene-2-ethanol CAS No. : 5402-55-1 Qty. : 500 Kgs

Product Name	Qty	Grade
Talc	5 Tonnes	Industrial 

Details : We EXPORTS PARTNER are Buyer Rep. in India for sourcing and shipping all activities in India. Presently Buyer is looking to buy following product PRODUCT : Indian Origin -Purified Talc BP (Pharma Grade ) HS Code NO. : 25262000 Packing : 25KG Nett. Qty Required : 05 Tons. Port of Delivery : Tema Port, Ghana. Quotes Required : US \$/Ton CIF - Tema Port, Ghana.



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# CHEMICAL MARKET

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

## India shining, will it outperform the world economy?

India has been at the center stage of the global economic forum. India is expected to become \$7T economy in seven years, says Chief Economic Advisor, Anantha Nageswaran and it will reach \$3.5T by the end of 2022-23 fiscal. The government had previously said India would become a \$5T economy by 2025.

“Nominal GDP or GDP at Current Prices in the year 2022-23 is estimated at ₹273.08 lakh crore, as against the Provisional Estimate of GDP for the year 2021-22 of ₹236.65 lakh crore, released on 31st May, 2022. The growth in nominal GDP during 2022-23 is estimated at 15.4 per cent as compared to 19.5 per cent in 2021-22,” National Statistics Office (NSOs) statement added.

Based on the recent events and geopolitical tensions including the Ukraine-Russia war, the world economy has suffered and US has been playing its own game in order to dominate the world with its \$ reserves. However, countries have started trading in non-usd currency. How long the USD will remain the world reserve currency is a big question specially when EVs will be replaced with oil and OPEC countries will look forward to revenue from other sources than oil. Also, how will the US debt issue be resolved once \$ will not be used as a global currency. It is just a matter of time before countries will be self-sustaining for energy and will start to use renewal sources of energy. The US is targeting 2050 to be net zero. India has a realistic dream of achieving net zero emission by 2070. The recent India Energy Week was very successful and speaking at the opening ceremony, Prime Minister Modi said: “The energy sector plays a major role in deciding the future of the world in the 21st century. India is one of the strongest voices today in developing new resources of energy and in the energy transition. The country which is also all set to become a developed nation, has unprecedented possibilities for the energy sector.” Also, recently India discovered 5.9 Million Tons of Lithium metal in J&K which is one of the main ingredients in battery manufacturing used in EVs. This discovery has added a ray of hope to achieve automobile emission neutrality earlier than expected.

India's budget had been largely appreciated by most people and organizations and the amount of money India is investing in infrastructure is staggering. The whole landscape has been changed in recent times which will make cargo and personal travel using trains and road infrastructure to an amazing new level.

This includes the Ahmedabad – Mumbai bullet train which will re-

duce the travel time from approx. 12 hours to 8 hours. Remember, this will hugely benefit the chemicals and the pharmaceuticals industry as about 70%-80% of the chemical industry is concentrated within Gujarat. Along with the train infrastructure, the state of Gujarat has the Dahej Port which is a multi-cargo port located in the Gulf of Khambhat and is strategically situated on international maritime routes and provides easy access to the dense industrial hubs of Gujarat, Maharashtra and Madhya Pradesh.

The highway roads infrastructure from Delhi to Mumbai and several highways throughout India are in the works including tourist destinations like Goa. The Indian road network is looking to match the world class standard with wide scale expansions and makeovers. The central government's “Bharatmala” project has helped in building a solid network of roads, highways and expressways. India also plans to build at least 26 green expressways by 2025. One Bank of America report says that the total length of national highways in the country is expected to reach 112000 miles. The report further states that the total road infrastructure build between 1950 and 2015 combined will be built during the decade ending in 2025. No wonder the use of construction chemicals and raw materials used in the cement industry is at an all-time high and probably will be higher with more expansion on the roads infrastructure.

“The government is dedicatedly working towards the development of a national highway network of 2 lakh km length by 2025. It's a big thing”, said Road Minister Mr. Nitin Gadkari.

Recently India was also a part of the World Economic Forum Annual meeting in Davos in Switzerland. Center for Economics and Business Research (CEBR) predicts that by 2035, India will become the third \$10 T economy. Also, as the manufacturing has been moving out of China to India specially in chip manufacturing and digital goods manufacturing like TVs and mobile phones and other electronics, the Indian exports will be increasing to an unprecedented level with time.

In summary, with whatever happens on a global scale, India has been resilient in its growth plans irrespective of the covid19 situation, the war, or the Adani issue which I believe was a target to the Indian economy. The right will be a winner and will flourish. Are you prepared for insane growth in the next 2-5 years?

-Rajiv Parikh



# Univar Solutions and Dow Expand Relationship in Brazil to Include the Homecare and Industrial Cleaning Market

SÃO PAULO, Jan. 25, 2023 /PRNews-wire/ -- Univar Solutions Brasil Ltda., a subsidiary of Univar Solutions Inc. (NYSE: UNVR) ("Univar Solutions" or "the Company"), a leading global solutions provider to users of specialty ingredients and chemicals, today announced an expanded distribution relationship in Brazil with Dow, a material science leader company committed to delivering innovative and sustainable solutions for customers including acrylics and organic products. The new agreement will strengthen Univar Solutions' homecare & industrial cleaning portfolio in Brazil with the addition of cleaning brands ACUSOL™, SupraCare™, and others.

"Our enhanced partnership with Dow represents a major step for our homecare and industrial cleaning business in Brazil. Building on our close collaboration with Dow in North America and Europe, the new agreement will increase the depth and breadth of our portfolio and customer reach in this region, and demonstrates the importance of strong global supplier relationships," said Jorge Buckup, president, Latin America for Univar Solutions.

"We are excited to offer market-leading products and solutions that customers are seeking for more sustainable and innovative formulations," said Aaron Lee, global vice president of homecare & industrial cleaning for Univar Solutions. "Univar Solutions can assist customers with dedicated sales support, product management, an expansive product portfolio, and formulation development in the cleaning space with laundry and detergent dispersant polymers. We be-

lieve the future of the cleaning industry revolves around sustainable cleaning solutions, and using the right chemistry is key."

Univar Solutions' customers in Brazil will have access to Dow brands that are used in home and industrial cleaning applications and products such as dish, laundry, and surface cleaners. ACUSOL™ is used as an anti-redeposition agent for laundry detergents (power, liquid, and pods) and cleaners and as a thickener and opacifier for disinfectants,



fabric softeners, and soaps. SupraCare™ is used as a multi-functional polymer (thickener, foam booster, and for performance increase) for basic cleaning products, provides color protection on fabrics, and is inherently biodegradable.

"Through our current relationship with Univar Solutions, customers have access to the specialty ingredients and formulation expertise needed to innovate and grow their business," said Flávia Venturoli, business commercial director

for Dow Consumer Solutions in Latin America. "With Univar Solutions' technical knowledge and distribution capabilities, we're well-positioned in Brazil to support product innovation in the homecare and industrial cleaning sector. As trends come and go and consumers become more demanding, innovative technologies are needed and we're confident that we found the right partner to help customers navigate these challenges."

Both companies focus on innovation strategies and sustainability programs to help formulators and manufacturers create next generation end-user products. Dow's longtime global partnership with Univar Solutions also includes other specialty ingredients industries such as Coatings, Adhesives, Sealants, & Elastomers (CASE)

and Rubber & Plastic Additives, Lubricants & Metalworking Fluids, Beauty and Personal Care, and many others.

Read the full report : [univarsolutions.com/industries/homecare-industrial-cleaning](https://univarsolutions.com/industries/homecare-industrial-cleaning).

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



# Polyacrylamide Global Market Report 2023: Development Across Textile Industry Drives Growth

DUBLIN, Jan. 16, 2023 /PRNews-wire/ -- The "Polyacrylamide Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type (Anionic, Cationic, Others), By End Use (Water Treatment, Oil & Gas, Pulp & Paper Production, Others), By Region and Competition" report has been added to ResearchAndMarkets.com's offering.

By 2028, the global market for Polyacrylamide is expected to grow impressively due to increasing demand from the water treatment sector. In 2021, Iceland had Europe's highest clean water index score, achieving 86 out of 100.

Over the projected period, demand from the oil and gas industry for enhancement of oil recovery is anticipated to soar due to the product's improved oil recovery efficiency. Additionally, it is a component of drilling muds and additives for hydraulic fracturing fluid. Polyacrylamide can lubricate the drill bit, convey shale particles, change the drilling fluidity, and manage the fluid loss. These factors are expected to drive the demand for polyacrylamide in oil and gas applications.

Additionally, the development of polyacrylamide polymers for producing polyacrylamide gel and powder is expected to create new avenues for the bioscience and pharmaceutical industry in North America, and the increasing coal-washing activities and rising demand for coal production in the U.K. are expected to increase the demand of polyacrylamide polymers, the global

Polyacrylamide market is expected to rise in the forecast period.

## Rising Demand for Water Treatment

When added to treated water, polyacrylamide causes suspended particles to aggregate and precipitate, making it one of the main flocculants or coagulants used to treat municipal and industrial waste-

water treatment chemicals and boost industry growth. Therefore, the water treatment segment will continue dominating the market in the upcoming years.

## Increasing Product Adoption Standards for Sustainable Packaging in Papermaking Applications

Polyacrylamides are used extensively in papermaking to improve filler and fine article retention. The demand for packaging paper and paperboard may be significantly boosted by the growing emphasis on enhancing the quality of FMCG items' packaging. Additionally, the explosive growth of the global e-commerce market and the ensuing increase in demand for paper packaging supplies for logistical and shipping operations will lead to optimistic projections for the statistics of the polyacrylamide sector.

## Development across Textile Industry

For the post-treatment of fibers, polyacrylamide is utilized as a finish in the textile industry. It generates a soft protective layer in the fibers. As the fibers' yarn breaks due to moisture absorption, the polyacrylamide-treated yarn reduces this breakage. In addition, polyacrylamide makes the material resistant to fire and static electricity and provides excellent adhesion and high elasticity. Furthermore, polyacrylamide act as a silicone-free polymer stabilizer. Thus, the demand for polycarbonate will likely grow globally during the forecast period.

Read the full report : <https://www.researchandmarkets.com/r/9gft2k>

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



water.

Anionic polyacrylamide is widely utilized in the de-watering of sludge and the treatment of water. It is commonly used in iron and steel factories, wastewater plants, electroplating wastewater plants, metallurgical wastewater plants, and coal-washing wastewater plants to treat industrial sewage. Due to its high flocculation efficiency, anionic polyacrylamide is commonly employed in water treatment. Due to these factors, the market is growing in the upcoming years.

Another aspect that may significantly impact the market during the forecast years is the strict environmental rules enforced by regional regulatory bodies and the government to handle industrial wastewater. The U.S. Environmental Protection Agency's (EPA) and Safe Drinking Water Act's (SDWA) rules and modifications on wastewater treatment are anticipated to drive up demand for





# Sinopec Publishes "The Sinopec Green and Low-Carbon Development White Paper 2022"

BEIJING, Jan. 16, 2023 /PRNewswire/ -- China Petroleum & Chemical Corporation (HKG: 0386, "Sinopec") published the "The Sinopec Green and Low-carbon Development White Paper 2022" (the "White Paper") on January 13, highlighting its vision and practices across the scopes of a strategic roadmap, institutional mechanism, clean energy initiatives and the economical utilization of resources.

Sinopec was the first Chinese company to publish a "Environmental Protection White Paper" in 2012, which pledged to promote green and low carbon development. Over the last decade, Sinopec has carried out initiatives to improve energy efficiency, build sustainable operations, and contribute to the ecological conservation of the Yangtze River and Yellow River basins. Sinopec has also released an action plan to reach carbon peak emissions by 2030 and been named a "China Low-Carbon Model" for 12 consecutive years.

**"The White Paper reflects Sinopec's endeavors in advancing green and low-carbon develop-**

**ment. It will be the new starting point to anchor our strategies in balancing the development and emission reduction agendas of both short and long term initiatives, coordinate carbon and pollution reduction, green transformation and growth to accelerate green and low-carbon development, strengthen green competitive advantages and make significant contributions to the low-carbon transformation of China's energy and chemical industry and achieve the 'Dual Carbon' goals," said Zhao Dong, President of Sinopec.**

Sinopec is strategizing an industrial layout to develop clean, low-carbon, safe and efficient energy, establish a green and low-carbon vision to promote efficient energy resource recycling, and

pursue a roadmap to achieve scaled clean and low-carbon energy production, energy conservation and emission reduction in reaching net-zero targets.

The company's full-on "Dual Carbon" actions continue to reduce carbon emis-



sion and lower carbon intensity, with strengthened control of methane emission across the industry chain. Sinopec have also pursued carbon asset management and the product carbon footprint in-

depth and established the first carbon whole industrial chain tech company in China.

The clean production initiatives of Sinopec have greatly improved the utilization efficiency of energy, water and land resources – a total of 4,469 energy efficiency improvement projects have saved 7.49 million tons of standard coal, and by end of 2021, the Fuling shale gas field had conserved over 40 hectares of land, the equivalent of 56 football fields.

Source : PRNewswire

# LyondellBasell Selects Executive Vice President of People and Culture

HOUSTON, January 16, 2023 / PRNewswire/ -- LyondellBasell today announced it has selected Trisha Conley as its Executive Vice President, People and Culture. Trisha will be a member of the company's Executive



Committee and will assume the role on Feb. 1, 2023. She will lead LyondellBasell's vision and strategy to enhance

the employee experience, organizational performance, and company culture to be the best and most inspiring in the industry. To support LyondellBasell in its new corporate strategy, the leader for

Continue on Pg 47



## ROYAL PURPLE LAUNCHES NEW MAX-RESTORE HIGH MILEAGE FUEL TREATMENT PRODUCT

PORTER, Texas, Jan. 16, 2023 / PRNewswire/ -- The Royal Purple® brand, maker of premium synthetic oils, has launched their newest innovation: Max-Restore™ High Mileage Fuel Treatment. The Max-Restore™ product is a highly concentrated, high-performance fuel treatment that is specially formulated to solve performance problems typically found in higher-mileage vehicles. Those issues include reduced fuel economy, increased emissions, engine wear and lost performance.

Many older vehicles have reduced fuel economy due to poor combustion, primarily caused by high levels of carbon deposits and wear. The carbon deposits and wear can also create higher emissions that make it difficult for the vehicle to pass emissions testing. This results in more wear on critical parts and loss of performance, including poor acceleration and hard-starting.

"At a time when many Americans are keeping their vehicles for longer than ever before, we felt it was critical to develop a product to help vehicle owners experience better performance and longer life from their older cars and trucks," said Rusty Waples, Director of Brand & Product Marketing for Royal Purple. "Because no matter what drives you and no matter the age of your vehicle, Royal

Purple is always going to offer the best possible performance solutions."

Backed by rigorous testing, the Max-Restore™ High Mileage Fuel Treatment is proven to:

- Restore fuel economy up to 5.9%.
- Lower emissions up to 14.8%.
- Reduce wear by lubricating key fuel system parts and extending engine life.
- Restore injector flow up to 78.5%.

**The product contains a high dose of polyether amine (PEA) and proprietary detergents that quickly clean stubborn, long-term deposits often found clogging injectors and creating buildup on intake valves and ports of higher-mileage vehicles. It also provides a protective barrier to keep new deposits from forming. This optimizes the injector spray pattern and better atomizes fuel as it enters the combustion chamber, resulting in restored power and performance, reduced emissions, smoother idle and quicker/easier starts. The robust formula also utilizes a friction modifier**



**to reduce wear, help extend engine life and improve fuel economy.**

Source : PRNewswire

## ITALVOLT ENTERS STRATEGIC COLLABORATION WITH STOREDOT FOR EXTREMELY FAST CHARGING LITHIUM-ION BATTERY TECHNOLOGY

Italtvolt SpA, the company developing Italy's largest independent battery cell factory, today announced that it has entered into a strategic collaboration with StoreDot, a pioneer and global leader in extreme fast charging and high energy density lithium-ion battery technology.

Under the terms of the agreement, Italtvolt will license StoreDot's Extreme Fast Charging (XFC) technology and intellectual property rights to manufacture XFC lithium-ion batteries at its factory in Italy. The collaboration includes an off-take agreement for StoreDot, allowing the purchase of Italtvolt's batteries for its own company and customers, once production is complete.

The agreement represents an important milestone in Italtvolt's operational ambition to develop large-scale lithium-ion batteries and establishes an accelerated path to market. Specifically, it reflects an alignment of ambition and timeline between the two companies and will allow Italtvolt to increase and improve its battery cell production alongside Store-

Dot's technological advancements.

StoreDot's "100inX" roadmap aims to develop advanced battery cells capable of 100 miles in 5 minutes of charging by 2024, 100 miles in 3 minutes of charging by 2028, and 100 miles in 2 minutes of charge by 2032. 1 StoreDot seeks to drive mass adoption of EVs through the development of batteries with extreme energy density, which offer greater efficiency, longer lasting performance and enable ultra-fast charging.

The collaboration between Italtvolt and its technology partners demonstrates how independent battery manufacturers can efficiently develop advanced lithium-ion battery cells at scale. The Italtvolt battery factory will be technology independent and will use a modular production process. This approach provides the flexibility and capacity needed to develop battery cells, in line with the evolution of advanced technologies, allowing Italtvolt to quickly accelerate its time to market.

Lars Carlstrom, Founder and CEO of Italtvolt, said, "Our collaboration with StoreDot is an inflection point in our journey to deliver high-quality lithium-ion battery cells at scale. Italtvolt's modular and technology-independent approach to production will allow us to stay at the forefront of the industry as battery cell technology advances."

"We are proud to welcome StoreDot as a pickup partner, and together we will accelerate the deployment of Extreme Energy Density Battery Cells, which can support the transition to electric vehicles. »

Doron Myersdorf, CEO of StoreDot, said, " We are delighted to form this strategic collaboration with Italtvolt, a company that shares our ambition for the entire battery ecosystem and which will be crucial in enabling us to secure European manufacturing capacity. This agreement allows us to obtain a captive capacity in order to guarantee the sup-

ply of cells to our future OEM customers. It is extremely important that StoreDot builds these strong relationships as we move rapidly towards mass production of our super fast charging batteries in the coming months. Our advanced 100in5 technologies will help eradicate charging anxiety, which is currently the biggest barrier to widespread EV ownership. »

**The industrial production of XFC lithium-ion batteries will support Italtvolt's vision of creating a modern automotive industry in Italy that generates highly skilled jobs. Italtvolt's lithium-ion battery production will also contribute to the broader goals of green industrialization in Europe, as the adoption of electric vehicles (EV) 2 and battery storage technology becomes more widespread. 3**

Source : Automotive Technology

**THE FUTURE OF  
ELECTRIC VEHICLES:  
AIRFRAME AND  
CHASSIS INTEGRATION  
- NETA AUTO AND CATL  
TO JOINTLY DEVELOP  
CIIC**

On January 10, Neta Auto and CATL Intelligent Technology Co., Ltd, a subsidiary of Contemporary Amperex Technology Co., Ltd. have signed a

CATL Integrated Intelligent Chassis cooperation agreement. Neta Auto will become the first brand of Chinese electric vehicle startups to develop CIIC.

Under the terms of this agreement, Neta Auto and CATL ( Shanghai ) Intelligent Technology will cooperate intensively on the CIIC. Thanks to CTC (Cell to Chassis) technology, key components of the battery and other systems are integrated into the lower part of the vehicle, without the need for separate battery packs. This reduces the cost of acquisition for users and energy consumption, increases the distance per charge and makes more room for passengers.



The strategic cooperation between Neta Auto and CATL dates back to 2021. This time, Neta Auto is not only carrying out full cooperation with CATL in technology R&D and supply chain guarantee, but goes further by jointly studying the ability for vehicles to use the skateboard-style chassis.

**Peng Qingfeng, co-founder of Neta Auto, said, "Cooperation is an essential deployment of both parties in the era of intelligent electric vehicles, as well as an inevitable choice of common values. This cooperation will allow Neta Auto to design more comfortable and powerful smart vehicles, faster and more**





## **economically. This will allow us to more effectively implement the brand value of technological equality around the world. »**

The CIIC will help Neta Auto products achieve a higher level of distance per charge, safety and smart driving, to provide customers with safer, more comfortable and more maneuverable EVs.

The cooperation between Neta Auto and CATL ( Shanghai ) Intelligent Technology on the CIIC is a “powerful alliance”. This cooperation will further improve the ecosystem of the two companies across the entire industrial chain and jointly advance the development of electric and intelligent vehicles in China.

Source : Automotive Technology

### **WHILE WHITE AND BLACK STILL WIN, CHROMATIC COLORS GAIN MARKET SHARE AROUND THE GLOBE**

- Expanding color spaces make the overall rainbow of automotive color broader
- White, black, gray, and silver still dominate for non-commercial vehicles
- Yellow, orange, green, and violet all gain market share

As they have for several years, achromatic colors dominated the automotive market around the globe in 2022. But as BASF's designers found in the company's Color Report for Automotive OEM Coatings, the automotive color rainbow is expanding to allow colors like yellow, orange, green, and violet

to take market share.

Despite the shift in colors, the achromatic colors – white, black, silver, and gray – followed a familiar pattern, coating the majority of the non-commercial vehicles produced in 2022. As it has been for several years, white is still the most popular car color around the world for its classic, timeless beauty, and high resale value.

If buyers didn't choose achromatic colors, they often went for blue or red. While those two color spaces are still very popular, other chromatic colors like yellow, orange, green, and violet are all gaining market share in most regions of the world. This shows that BASF's customers – the automakers – are embracing a wider range of diversity and breadth of color than before.

The data cited throughout the report also shows that automakers produced more vehicles as they bounced back from the effects of the global pandemic and regional supply chain challenges.

#### **EMEA: More colorful, even though its two biggest colors (white and black) also increased**

Europe, Middle East and Africa (EMEA) showed gains for its two most popular colors – white and black – and losses in market share for gray and silver. At the same time, the region got much more colorful.

Blue still has a commanding lead among chromatic colors in EMEA, but both blue and red lost market share. Orange started appearing in car buyers' preferences, and yellow, brown, and green all picked up a few percentage points.

“White and black increased this year, but the bigger story is diversity in the chro-

matic colors,” said Mark Gutjahr, head of Automotive Color Design, EMEA. “When you add the market share of yellow, orange, brown, and green, you can see more hues and diversity, reflecting a more nuanced color palette and a depth and breadth of color that has developed in the last year or two.”

#### **North America: More chromatic colors like violet show up**

North American car buyers have fewer choices for chromatic colors, but that doesn't mean they're choosing fewer chromatic cars, trucks, or SUVs. Blue and red are still dominant, but the region is more colorful than before as green, yellow, violet, and beige show up more often.

Blue is still on top, and the gap between blue and red is widening as blue continues its dominance. Achromatic

colors like black, gray, and silver lost some market share, especially in larger vehicles. That allowed earthy tones like beige, brown, and green to increase, and violet to gain market share as car buyers' tastes change.

“If you look at the heavy hitters among the chromatic colors, blue and red are on top. But with people turning more to nature, natural colors like green, yellow, violet, and beige are making their mark,” said Liz Hoffman, head of design, The Americas. “Car buyers are also looking for a vehicle color that conveys their positivity.”

#### **Asia Pacific: Increase of gray shades boosted the share of achromatic colors**

As BASF's designers saw in other regions of the world, white was also the most popular color in Asia Pacific. The real focus this year is an increase in gray shades, hinting at a new era in the automotive industry, and the changing val-



ues and habits of car buyers.

While the total numbers aren't huge, brown, green, and violet are all consistent in color popularity. It will be a long time before they challenge white for the most popular, but for now, they add to the tremendous diversity of color in Asia Pacific. That's especially true among small vehicles and NEVs, which are selling in a wider range of colors.

**Gray gained about six percentage points in popularity, taking market share from blue, red, gold, and brown.**

"Gray is more attractive and popular than ever. Users never give up pursuing uniqueness and individuality in achromatic colors," said Chiharu Matsuhara, head of design, Asia Pacific. "Some gray shades with blue or violet undertones are working their way into the market, with solid-like effects and also added color pearl effects showing great diversity in the color space."

**South America: The lightest region as white, silver, and beige dominate the market**

Historically, South American car buyers have chosen more traditional, less flashy colors. Like other regions, white is by far the favorite, and gray beats black in market share for the achromatic colors.

For chromatic colors, red and blue were stable, while brown gained some market share. Those colors were most likely chosen for smaller vehicles. Larger cars and SUVs had the highest share of achromatic colors, including new and varied effects for gray featured on larger cars.

**"South America is still a conservative region. Buying a vehicle in SA means you may not have the same variety of colors, but within each color space, there are**

## **some really exciting and different effects," said Marcos Fernandes, Director Regional Business Management, Automotive Coatings South America.**

The BASF Color Report for Automotive OEM Coatings is a data analysis from BASF's Coatings division based on global automotive production and paint application to non-commercial vehicles in 2022.

Source : BASF

## **OPW RETAIL FUELING LAUNCHES 14HC HIGH-FLOW DIESEL- CAPTURE NOZZLE**

DOWNERS GROVE, Ill., Jan. 26, 2023 /PRNewswire/ -- OPW Retail Fueling, part of Dover (NYSE: DOV) and a global leader in fluid-handling solutions, announced that it has launched its new 14HC Series High-Flow Diesel-Capture Nozzle, ideal for high-flow diesel applications found at truck stops and high-volume convenience store truck lanes.

The 14HC nozzle is part of OPW's 14 Series of Clean Fueling Nozzles and is UL and ULc approved for use with diesel blends up to B20. The new nozzle has been designed to deliver a cleaner, greener fueling experience in the forecourt.

"Whether it's a family-owned gas station, convenience store or truck stop pumping a million gallons of diesel a month, retail fueling site owners want to provide a clean, positive fueling experience for their customers. The 14 series nozzle has provided this experience for the past few years through its

innovative dripless spouts for gasoline and fuel re-capture technology for diesel nozzles. We have now introduced that proven technology to our HiFlo diesel nozzles designed specifically for high-speed diesel dispensers found on truck lanes," said Ed Kammerer, Director of Global Product Management for OPW Retail Fueling. "The design of the 14HC nozzle can create high flow rates while protecting the user and forecourt from fuel drippage during and after the refueling process."

The enhancement that distinguishes the 14HC nozzles from the competition is its patented diesel-capture chamber. The diesel-capture technology enables any excess fuel to be drained back into the diesel-capture chamber when the nozzle is returned to the dispenser cradle. The result is a cleaner fueling process that protects the nozzle, dispenser, forecourt surface and drivers from fuel drippage and diesel residue.

**Standard features of the 14HC nozzles include a 1" inlet and spout for maximum flow rate on high-speed dispensers, a FlowLock™ that allows the nozzle to shut off should it fall out of the vehicle or is tipped up; a Precise Flow Control actuator; a Duratuff® lever guard that won't scratch vehicles; a two-piece NEWGARD™ hand insulator, the most comfortable hand insulator in the industry; and a one-finger, hold-open clip that makes it easy to set the desired flow rate.**

Source : PRNewswire



## POSSIBLE BREAKTHROUGH IN CARDIOVASCULAR DISEASE DIAGNOSTICS FOR EUROPE AND THE EUROPEAN UNION

SINGAPORE, Dec. 16, 2022 / SPRNewswire/ -- Neuome Peptides Pte. Ltd., a Singapore-based company has established an assay-development platform, powered by machine learning and novel, patented algorithms for the quantifiable detection of biomarkers.

The company successfully designed specific peptides to bind to pre-established, proven biomarkers for Cardiovascular Diseases and is currently developing effective diagnostic assays. The use of small peptides, conjugated with gold nanoparticles, allows a balance of high specificity and sensitivity, giving highly accurate and fast results.

According to the European Heart Network, each year cardiovascular disease causes 3.9 million deaths in Europe and over 1.8 million deaths in the European Union.

**This is made possible with the product TruHeart™, a point-of-care assay to diagnose Acute Coronary Syndrome that can give quantifiable results within 3-5 minutes, using a fin-**

**ger-prick sample to test for the crucial biomarkers, Troponins I and T, and Myoglobin (eventually expanding to D-Dimer and Brain Natriuretic Peptide). It is in the advanced stages of R&D and progressing to global clinical trials. It will be submitted for FDA approval and then introduced**

**to the market upon approval.**



This product could be a game-changer, allowing patients to affordably screen for

this potentially deadly condition conveniently early, in their own home, achieving quantifiable results without needing a laboratory. This more efficiently guides patients to seek appropriate medical attention; those with prevailing heart conditions may also regularly monitor their condition at home. In comparison to industry standards, it will be uniquely affordable; its peptide-coated cartridges will cost only ~USD\$2, while the quantitative electronic reader will cost ~USD\$80. This is in contrast to existing point-of-care devices also giving quantitative results for cardiac biomarkers, but at device costs of up to USD\$4,500, with cartridges ranging from USD\$18-37.

The company's Scientific Advisory Board includes prominent leaders in this field, such as Padmashri Balram Bhargava, former Director General Indian Council of Medical Research (ICMR).

The company has scheduled clinical trials in five hospitals in India (including the renowned Narayana Hrudayalaya), in the process of securing a large site in the US and five sites in Europe. It is also advanced discussions with A\*Star and Singapore's National Heart Centre. This is only one of many pipeline products made possible by its patented method of peptide-design. The immediate pipeline includes assays for Prostate and Colorectal Cancers, Dengue, Malaria, and more.

Source : PRNewswire

## INEOS STYROLUTION TO DISPLAY INNOVATIVE STYRENIC HEALTHCARE SOLUTIONS AT MD&M WEST 2023 IN ANAHEIM, CALIFORNIA

- Learn about one of the most comprehensive resin portfolios used in medical design
- Meet material experts to discuss innovative and sustainable styrenic solutions for healthcare

INEOS Styrolution, the global leader in styrenics, will highlight its product expertise in styrenic solutions for the healthcare industry at "the world's largest medical design and manufacturing event", MD&M West 2023. Showing in booth #1337, February 7-9, 2023 at the Anaheim Convention Center in Anaheim, California. The company's experts will discuss innovative styrenic solutions for the healthcare industry.

INEOS Styrolution offers a compre-





hensive selection of styrenic materials ideal for use in a wide-range of applications and robust regulatory and technical support. Material resin experts and skilled specialists' knowledgeable in specific medical applications and regulations, will be available to show their wide-reaching proficiency of the medical industry and highlight their support for stakeholders in the healthcare sector at MD&M West 2023

**“With our large portfolio of healthcare resins, our exceptional technical service, and our outstanding regulatory support, we have positioned ourselves as a premier resin supplier to the healthcare industry. We’ve successfully partnered with many medical device manufacturers to bring innovative solutions to the industry,” says Alexander Silvestre, Global Director, Healthcare, INEOS Styrolution.**

Product focus at MD&M West 2023 includes; Lustran® 348 for inhaler housings, auto-injectors and various drug delivery opaque applications, Lustran® SAN for specialty diagnostic and labware applications, Styrolux® for fluid containers and IV set components, and K-Resin® for filters and respiratory devices.

INEOS Styrolution has made a strong commitment to supporting sustainability objectives and a plastics circular economy. Efforts are underway to implement a number of new programs such as use of bio-attributable feedstocks. The company announced the availability of their first ECO healthcare grade Novodur® ECO B in August of 2022. Mass balance

based, bio-circular Novodur ECO HD M203 FC B50 offers a 50% contribution of bio-attributed content and has been designed specifically for electroplating making it a material of choice for various hygienic applications for the medical industry.

Source : Ineos

## **TORAY PARTNER BEGINS SELLING REMITCH® OD TABLETS 2.5 MG FOR PRURITUS TREATMENT IN KOREA**

Tokyo, Japan, January 16, 2023 – Toray Industries, Inc., announced that Korean marketing partner SK Chemicals Co., Ltd., began selling REMITCH® (see note 1) OD Tablets (see note 2) 2.5µg earlier this month. That move comes after Korea’s Ministry of Food and Drug Safety licensed the import of this Toray-developed orally disintegrating pruritus treatment. Toray developed and secured manufacturing and marketing approval in Japan in 2017 for this medication for hemodialysis and chronic liver disease sufferers finding existing pruritus therapies and treatments ineffective.

SK Chemicals began offering REMITCH Capsules 2.5 µg after obtaining an import license on June 14, 2013, for that formulation, which was already on the market in Japan. That license was to assist hemodialysis sufferers whose existing pruritus treatments were insufficiently effica-

cious.

**People can take REMITCH OD Tablets 2.5µg with or without water, making it convenient for elderly and other individuals finding it hard to swallow pills or people with fluid restrictions. This formulation should help improve medication compliance.**

Toray looks for REMITCH OD Tablets 2.5µg to contribute to local hemodialysis sufferers in Korea as a new option for pruritus treatment.

Source : Toray

## **SUN PHARMACEUTICAL LAUNCHES PHENOBARBITAL SODIUM INJECTION IN US**

Sun Pharmaceutical Industries Ltd on Wednesday launched its phenobarbital sodium injection, SEZABY for

treatment of neonatal seizures in the US. SEZABY is the first and only product approved by the US Food and Drug Administration (USFDA) for the treatment of neonatal seizures in term and preterm infants, Sun Pharma said in a regulatory filing.



It is a benzyl alcohol-free and propylene glycol-free formulation of phenobarbi-



tal sodium powder for injection.

"The launch of SEZABY is an exciting addition to our growing portfolio of specialty branded products in the US," Sun Pharma CEO North America Abhay Gandhi said.

**He further said, "As the first and only FDA-approved product for the treatment of seizures in**

**term and preterm infants, SEZABY has the potential to make a meaningful difference in the lives of patients and their families, and we are proud to be able to provide physicians with this new treatment option."**

Sun Pharma SEZABY was granted 'orphan drug' designation by the USFDA

for the treatment of neonatal seizures.

Orphan drug designation is granted by the USFDA to medicine intended Orphan drug designation is granted by the USFDA to medicine intended to treat a condition affecting fewer than 2 lakh persons in the US, or which will not be profitable within seven years following its approval.

Source : The Economic Times

## CHEMICAL TECHNOLOGY

### MOWILEX CREATES INDONESIA'S FIRST RENEWABLE, BIO-BASED PAINT, WHICH IMPROVES INDOOR AIR BY TURNING FORMALDEHYDE INTO WATER VAPOUR

- New Naturalle™ paint by PT Mowilex Indonesia features an innovative, bio-based technology that replaces petroleum-based resins with natural plants.
- In homes and commercial spaces, Naturalle™ permanently removes formaldehyde that's emitted by building materials and other sources.
- The zero-VOC Naturalle™ line is available in modern colours with a luxurious, easy-to-clean, and high-performing matte finish.
- As the first company in Indonesia to launch a bio-based paint, Mowilex

continues to be a leader in environmental sustainability.

JAKARTA, Indonesia, Jan. 16, 2023 / PRNewswire/ -- The new Naturalle™ paint from PT Mowilex Indonesia (Mowilex) features a groundbreaking, bio-based formula that contains 28% renewable raw materials and removes formaldehyde from indoor air. Producing Naturalle™ with plant elements reduces its overall carbon footprint while creating a durable, high-performing matte paint that is low in odour and free of organic compounds (VOCs).

Mowilex is the first manufacturer in Indonesia to formulate a sustainable, bio-based paint. The water-based acrylic binder is made of 28% natural ingredients sourced from existing seeds, stalks and grasses. Using plant-based sources eases pollution by reducing the need for petroleum-derived polymers, and that lowers the product's overall carbon footprint.

By trading petroleum resins for plant-based alternatives, Mowilex has created an extra-low odour, low-emission, zero-VOC paint. The innovative, bio-based technology behind Naturalle™ also actively improves air quality in homes and offices. Building materials, cleaning products, lacquers and other items release formaldehyde, a pollutant that can irritate the eyes and nose, trigger asthma attacks, and increase cancer risk. Naturalle™ absorbs formaldehyde and turns it into water vapour, permanently eliminating the contaminant from indoor air.



Mowilex is applying to certify Naturalle™ through the USDA's BioPreferred® Program. The voluntary series of independent, third-party program tests confirms that products meet or exceed minimum bio-based content requirements.

"Our Naturalle™ paint derives a significant portion of its resins from sustainable, plant-based materials. Using these renewable elements, rather than petroleum-sourced raw materials, lowers the product's carbon footprint. This paint also improves indoor air quality by re-



moving formaldehyde from indoor air, offering a sustainable solution to a common challenge," says Novina Tjahjadi, Mowilex Head of Research and Development.

"PRIMAL™ RN Biobased Acrylic Emulsion and FORMASHIELD™ Technology from Dow Inc. are incorporated in Mowilex Naturalle paint, offering a sustainable solution and healthier environment to meet asthma and allergy standards," says Yena Margono, Southeast Asia Marketing Manager for Dow Coating Materials. "As one of the world's leading materials science companies, Dow Inc. is passionate about discovering innovative, sustainable solutions through joint efforts with our partners."

"Naturalle™ is a renewable, high-performing paint with excellent formaldehyde-abatement properties. We are excited to offer Naturalle™ and further strengthen our position as the environmental and sustainability leader in our market," says Niko Safavi, CEO of PT Mowilex Indonesia.

**With the Naturalle™ launch, Mowilex underscores its commitment to both sustainability and premium product quality. Naturalle™ paint applies easily, spreads smoothly, and hides small surface imperfections. The luxurious matte finish is easy to clean, and the modern paint colours will not fade over time. The anti-fungal, anti-bacterial formula also contains no lead, mercury or other heavy metals.**

Source : PRNewswire

## BRASKEM AND NEXUS CIRCULAR STRENGTHEN RELATIONSHIP THROUGH A LONG-TERM CONTRACT FOR CIRCULAR PLASTIC FEEDSTOCKS FROM NEW ADVANCED RECYCLING FACILITY

PHILADELPHIA--(BUSINESS WIRE)--Nexus Circular and Braskem S.A. (B3: BRKM3, BRKM5, and BRKM6; NYSE: BAK; LATIBEX: XBRK) ("Braskem"), the largest polyolefins producer in the Americas, today announced that they have signed a 10-year definitive commercial agreement for the supply of circular feedstocks from a new advanced recycling facility. Braskem completed a strategic investment in Nexus Circular in January 2022.

The contracted volumes of advanced recycled circular products from Nexus will support Braskem's strategic objective to sell 300 thousand metric tons of products with recycled content by 2025 and 1 million metric tons by 2030. Braskem America's CEO Mark Nikolich said, "We look forward to a long and growing partnership with Nexus to secure high-quality feedstock for the production of Braskem's certified circular PP resins. This supports our corporate initiative to develop a carbon neutral circular economy for plastics while supporting our clients' goals for plastics with recycled content."

This project will add to Braskem America's existing sustainable PP and PE portfolio, which currently consists of nine (9) Post-Consumer Recycled (PCR) products including two PCR PP grades

that can be used in a wide range of U.S. Food and Drug Administration (FDA) food contact applications where PP is used today. Braskem's full range of PCR solutions can be used in a variety of PP and PE applications, including but not limited to consumer packaging, caps and closures, durable goods, automotive, and consumer housewares.

**Nexus Circular is a commercial leader in advanced recycling with proven proprietary technology and a leading process design that converts landfill-bound films and other hard-to-recycle plastics into high-quality feedstocks, which are then used to produce virgin-quality sustainable plastics. Since 2018, Nexus has been consistently supplying commercial volumes of ISCC Plus-certified circular liquid products, having diverted over 8 million pounds of used plastics from landfill.**



Jodie Morgan, Chief Executive Officer at Nexus, confirmed, "This long-term commercial contract builds upon the strong foundation of our growing relationship. We are excited to partner with Braskem to accelerate our impact and ability to address the complex challenges of plastics accumulation in the environment."

Source : businesswire





### STUNNING AND SUSTAINABLE: HEUBACH LAUNCHES HOSTATINT™ SA FOR LUXURIOUS WOOD FINISHES

- Advanced solutions for tinting natural wood stains and oils
- Safe and sustainable with no need for special labeling
- Superior fastness properties compared to traditional dyes

Vienna/Austria; Frankfurt am Main/Germany, January 18, 2023 - The Heubach Group, a leading provider of comprehensive color solutions has launched their latest advanced pigment preparations for luxurious wood finishes. An optimal solution for tinting natural wood stains and oils that are derived from oils such as linseed. As such Hostatint™ SA preparations do not require special labelling, making them perfect to replace traditional dyes.

With low viscosity, advanced sedimentation behavior, high tinting strength and consistent quality, they are easy to handle and restrict migration into waterborne or solvent borne topcoats.

**“Unlike any other material, natural wood can create**

**a warm and beautiful atmosphere. It is extremely versatile and has been described as ‘the new concrete’, used for everything from new building structures and façade cladding to green space fencing and interior decoration. Hostatint SA helps to maintain, preserve and enhance this common building material with your color of choice,” said Alexander Wörndle, Global Technical Marketing Coatings at Heubach.**



porary shades.

The recently re-formulated Hostatint™ UV 100 product range is the next generation of high-performance colorants for UV cured wood coatings. This new version is especially designed for industrial coatings and wood finishes and has been engineered without the inclusion of Hexandioldiacrylate (HDDA); it allows for compliance with requirements of major furniture and consumer goods producers.

Hostafine®, based on non-ionic dispersing and wetting agents and glycol, is de-

signed for water-based wood treatments and dye replacement offering superior fastness and outstanding transparency for furniture and flooring while the water-based Colanyl® 100 offers a huge color range ideal for furniture.

The new Licosperse™ pigment preparations for sustainable wood coatings, polishes, and other oil-or wax-based products were launched in 2021. The portfolio comprises brilliant shades from traditional to eye-catching, is made without the use of heavy metals and resin free, non-toxic and non-flammable. Additionally, the ready-to-use blends help to save time and money in the coloration process.

Heubach's outstanding and innovative wide range of pigment preparations for wood coatings delivers a versatile replacement to traditional dyes suitable for different application fields, helping to protect wood and enhance its natural beauty, providing a variety of ways for manufacturers to achieve the desired light fastness and opacity needs in their wood coatings and decorative stains.

Source : Press Release

### EVONIK LAUNCHES SCIENTIFICALLY PROVEN SYNBIOTIC SOLUTIONS IN VIVO BIOTICS™

- Meets customer demand for science-based synbiotic solutions
- Unique insights support fast-market approach
- Superior expertise in biotechnology and formulation



Evonik has launched a new category of nutraceuticals called IN VIVO BIOTICS™. These next-generation synbiotics combine probiotics – healthy gut bacteria – with other health ingredients. IN VIVO BIOTICS™ are based on scientific understanding of human health with deep knowledge of the market for food ingredients and dietary supplements. Customers working on innovative nutraceuticals and health solutions benefit from Evonik's superior expertise in biotechnology and formulation, as well as reliable delivery, excellent quality standards and scalable production.

“We believe the human microbiome has great potential for maintaining good health. That's why we are thrilled to offer our customers science-based nutraceutical solutions like IN VIVO BIOTICS™,” said Maximillian Yeh, head of Health Solutions at Evonik's Health Care business.

**Evonik offers nutraceutical companies a range of IN VIVO BIOTICS™ solutions such as IN VIVO BIOTICS™ butyrate that supports intrinsic butyrate production, IN VIVO BIOTICS™ resolin and IN VIVO BIOTICS™ gluten tolerance. Customers also benefit from Evonik's offering of unique insights for a fast-market approach by supporting consumer translation, product positioning, consumer awareness and packaging design.**

IN VIVO BIOTICS™ is part of a nutra-



ceuticals portfolio of advanced health ingredients, coatings, formulation services and finished dosage forms offered by Evonik's Health Care business. The Health Care business at Evonik is part of the company's life sciences division, Nutrition & Care, which aims to increase its share of System Solutions from 20 percent today to more than 50 percent by 2030. System Solutions are defined as multicomponent systems tailored to a specific customer need.

Source : Evonik

## SOLVAY LAUNCHES BIO-CIRCULAR SILICA IN EUROPE, WITH EXPANSION PLANS IN NORTH AMERICA

Solvay is investing at its Livorno site, in Italy, to launch the company's first unit of circular highly dispersible silica (HDS), made with bio-based sodium silicate derived from rice husk ash. This new breakthrough silicate process provides a circular solution as it gives a second life to rice husk in a local value chain. Coupled with renewable energy integration at the plant, it will allow Solvay to achieve a 50% reduction in CO2 per ton of silica. This will make the

Livorno site Europe's best in class silica production site in terms of CO2 footprint. Production is expected to start by the end of 2024.

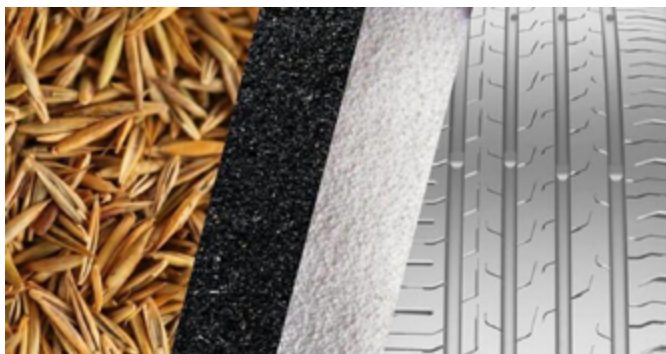
The Group will gradually replace its existing Zeosil® portfolio with circular HDS, providing a circular solution for tires that will contribute both to increasing the use of sustainable raw materials and reducing the tire industry's CO2 footprint. This new generation of precipitated silica will also address the needs of the home & personal care and the feed & food industries.

Solvay, the worldwide innovation leader in highly dispersible silica, is the first company to commit to circular HDS production at a European site within a concrete timeframe and is now focused on building the necessary ecosystem to bring it to market. This involves working with stakeholders across the entire value chain, and Continental is a key partner in this journey. Through the implementation of this competitive rice husk ash (RHA) proprietary process in Europe, the company is able to ensure consistent product quality by leveling out variability of agro feedstocks.

**“Silica is essential for the high performance of our tires. And with Solvay's bio-circular silica, our tires will at the same time become more sustainable. It reduces the overall carbon footprint and increases the share of renewable materials in our tires,” said Claus Petschick, Head of Sustainability at Continental Tires. He added: “Rice husk is an agricultural by-product that was not used for tire production until very re-**



**cently. Soon they will take us one step closer to our goal of 100 percent sustainable materials in our tires by 2050 at the latest".**



Solvay also has plans to build a new plant in North America over the coming years to expand its HDS capacity, which will significantly increase the Group's footprint in the region. This

new facility will be designed for circular raw materials and be aligned with the company's carbon neutrality roadmap.

The Group is also investigating projects on circular HDS in Asia and South America.

"Building on our constant drive for progress and innovation, the launch of our circular HDS in Europe is just the first step in a longer-term project that will enable us to offer a circular solution to tire manufacturers and other industries across the world, as we continue to reinvent progress with our Silica offering," said Ilham Kadri, Solvay CEO.

Source : Solvay

## MERGERS AND ACQUISITIONS

### MONDI SUPPORTS NOEL ALIMENTARIA ON THEIR JOURNEY TO REDUCE PLASTIC IN FRESH FOOD PACKAGING

- Noel Alimentaria and Mondi collaborate to introduce new paper-based food tray for a plant-based and meat food range.
- The rebranded Verday range is packaged in Mondi's paper-based PerFORMing tray.
- Innovative paper tray is designed for recycling and passed the recyclability tests by German institute Papiertechnische Stiftung.

17 January 2023 – Mondi, a global leader in packaging and paper, has partnered with Noel Alimentaria, supporting them and their choice of a paper-based solution for food products that greatly reduces the use of plastic.

Mondi worked closely with Noel Alimentaria to identify the best possible packaging solution for their range of plant-based and meat food. The collaboration resulted in Noel Alimentaria choosing Mondi's PerFORMing paper-based tray to pack its rebranded range of sliced plant-based food and vegetarian burgers 'Verday'. Verday is used by Marks and Spencer's for its 'Plant Kitchen' range in the UK and supplied to Nordic markets for ham and charcuterie products.

Being formable, the trays can be moulded and adapted to a range of different-sized food products, with high symmetrical stretch for uniform formability, ideal for shallow food trays. PerFORMing offers strong barrier protection against moisture and oxygen, keeping the food fresh throughout the storage and distribution process. The trays consist of 80% paper compared to the industry standard where they are made of 100% plastic, which means the plastic content of the tray has

been greatly reduced. The paper tray is designed for recycling and passed the recyclability tests by German institute PTS (Papiertechnische Stiftung, method RH:021/97).

Falk Paulsen, Sales & Business Development Director, Mondi, says: "By working very closely with Noel Alimentaria from the outset, we were able to ensure

we delivered the best possible option for the entire range of meat and meat free products, using a tray made from renewable and responsibly sourced material that still provides maximum protection for the goods."

**Maria Sánchez,**  
**Corporate Marketing Director,**

**Noel Alimentaria, says: "We deliver our premium foods across Europe, so the right packaging is essential, in order to maintain the fresh-**





**ness of the products properly and protect them. At the same time, sustainability is on top of our agenda, and it was a pleasure to work so closely with Mondi to find the most suitable solution. We were able to run the new paper-based trays on our existing machinery and will now be using the same solution for our further ranges of ham and other meat products."**

Source : Press Release

## COVESTRO AND LANXESS COOPERATE TO PRODUCE MORE SUSTAINABLE RAW MATERIALS WITH REDUCED CO<sub>2</sub> FOOTPRINT

- Companies agree production of key basic chemicals
- Covestro uses electricity with certificates of origin from hydropower for electrolysis in North Rhine-Westphalia
- Cooperation reduces CO<sub>2</sub> emissions by up to 120,000 tons per year

Chemical companies Covestro and LANXESS are cooperating in the energy-intensive production of basic chemicals at their Lower Rhine sites in Germany and make them more climate friendly. LANXESS procures chlorine,

caustic soda and hydrogen from the ISCC PLUS-certified sites of Covestro in Leverkusen and Krefeld-Uerdingen. With immediate effect, Covestro is manufacturing around one-third of the volume of products it supplies to LANXESS using energy from hydropower based on guarantees of origin.

"Covestro is pursuing the goal of completely converting its production to electricity from renewable sources on its path to operational climate neutrality in 2035," says Dr. Klaus Schäfer, Chief Technology Officer of Covestro. "A particular focus is on the energy-intensive production of basic raw materials. In cooperation with LANXESS, we use energy in our electrolysis plants in North Rhine-Westphalia on a pro-rata basis, which enables us to reduce our reported emissions by up to 120,000 metric tons of CO<sub>2</sub> per year."

"The joint project with Covestro is an important building block in making our entire value chain climate-neutral. By sourcing raw materials for these products with a significantly reduced carbon footprint, we will be able to reduce our reported indirect emissions by up to 120,000 metric tons of CO<sub>2</sub> equivalents per year," says Dr. Hubert Fink, member of the LANXESS Board of Management. With its Net Zero Value Chain Initiative, the specialty chemicals group plans to eliminate Scope 3 emissions within its upstream and downstream supply chain by 2050. This includes indirect emissions, particularly from purchased raw materials, but also in logistics or disposal. For Scope 1 and 2 emissions, the company aims to be climate neutral as early as 2040. "With this program, we are taking the next step towards a climate-neutral product portfolio and also supporting our customers, who are increasingly looking for sustainable solutions," says Fink.

Chlorine, caustic soda and hydrogen are basic building blocks for many products in the chemical industry. However, their production is very energy-inten-

sive. LANXESS uses the raw materials supplied by Covestro, for example, for products that are then used in the food and agricultural industries. Covestro produces the three basic raw materials at its North Rhine-Westphalian sites in Leverkusen, Krefeld-Uerdingen and Dormagen. Both the former have already been certified to the internationally recognized ISCC PLUS standard for the production of the strategic raw material chlorine, while this is also planned for Dormagen in the near future. The correct allocation of the electricity to the products is ensured via this certification and the use of the renewable energy is proven by the invalidation of certificates of origin at the Federal Environment Agency.

**Covestro is also actively involved in various projects to build a hydrogen economy that uses mainly or exclusively green hydrogen as an energy carrier. Among other things, the company is supporting, in cooperation with Hydrogenious LOHC Technologies, to build the world's largest plant for storing renewable hydrogen in liquid organic carriers in Dormagen, Germany.**

With regard to its energy supply, Covestro focuses on power purchase agreements (PPAs) for renewable energy or high-level certificates. Only recently, the company signed PPAs with Chinese supplier CGN New Energy on wind and solar power that will cover around 30 percent of the electricity needs of its important production site in Shanghai. Under another, utility Ørsted will supply offshore wind energy starting in 2025, which is expected to meet 10 percent of the electricity needs of Covestro's sites in Germany. ENGIE, Belgium's largest renewable energy producer, will provide onshore wind energy to meet 45 percent of the electricity demand of Covestro's Antwerp production site in Belgium.

Source : Covestro



## ARKEMA SIGNS MAJOR BIOMETHANE SUPPLY AGREEMENT WITH ENGIE TO FURTHER REDUCE THE CARBON FOOTPRINT OF ITS BIO-BASED POLYAMIDE 11 MATERIALS

Arkema has signed a long-term Agreement with ENGIE starting on 1 January 2023, for the supply of 300 GWh/year of renewable biomethane in France. This represents one of the largest private bi methane deals in Europe to date.

Arkema is proud to be already a pioneer in bio-based high performance materials derived from renewable castor beans, which offer a substantially lower carbon footprint compared to equivalent fossil-based materials. This supply agreement of 300 GWh/year of renewable biomethane with ENGIE, and ongoing energy efficiency projects, will enable Arkema to further reduce very significantly the carbon footprint of its bio-based high performance Rilsan® polyamide 11 and Pebax® Rnew® elastomers.

Biomethane is a renewable alternative to natural gas with a lower carbon footprint and is produced through fermentation of organic matter. The feedstock for biomethane in France is particularly respectful of the environment with more than 95% coming from the fermentation of agricultural residues and organic waste and with no competition with food. Arkema is also exploring oppor-

tunities to collaborate with ENGIE and other industry participants to support the continuous improvement of renewable biomethane production in France.

"We are very excited to announce this milestone contract with ENGIE, which will enable us to lower the carbon footprint of our bio-based high performance materials even further, in line with our customers' expectations. The transition towards sustainable materials is accelerating and Arkema is more than ever a partner of choice thanks to its broad range of bio-based and recycled materials" said Erwoan Pezron, Senior Vice-President of Arkema's High Performance Polymers.

**"We are delighted to accompany Arkema - a historical client of ENGIE - in their sustainable transition journey with such a large green energy supply agreement. At ENGIE, we believe that biomethane will play an essential role in the European energy mix and will be a key vector for decarbonizing the energy usages of our clients. This landmark deal definitely represents a major boost in the energy intensive chemical industry and establishes further ENGIE as a reference biomethane player in Europe." explains Paulo Almirante, ENGIE Senior EVP in charge of Renewables, Energy Management**

## and Nuclear Activities.

Source : Arkema

## UNIVAR SOLUTIONS TO EXPAND BEAUTY AND PERSONAL CARE, HOME AND INDUSTRIAL CLEANING PORTFOLIOS WITH ACQUISITION OF LEADING TURKISH DISTRIBUTOR, KALE KIMYA

DOWNERS GROVE, Ill., Jan. 23, 2023 /PRNewswire/ -- Univar Solutions Inc. (NYSE: UNVR) ("Univar Solutions" or "the Company"), a leading global solutions provider to users of specialty ingredients and chemicals, announced today that it has signed an agreement to acquire leading Turkish specialty chemicals distributor Kale Kimya.

First established in 1975, Kale Kimya offers best-in-class formulation laboratory capabilities and technical expertise as well as an extensive product portfolio of beauty and personal care products, and home and industrial cleaning products, including surfactants, actives, emulsifiers, preservatives, UV filters, fragrances, polymers, conditioners, esters and emollients.

**"This acquisition further progresses our strategy to grow our Ingredients and**



**Specialties business with a leading company that builds on and adds to our strengths, geographic footprint and product portfolio," said Nick Powell, president of Global Ingredients & Specialties. "I am delighted to soon welcome Kale Kimya to the Univar Solutions family. Their**



**experience and knowledge will support our customers in the region, as we continue to capitalize on changing consumer trends in the marketplace."**

Birgen Kaleağası Özemre, CEO, Kale Kimya, said: "This acquisition is a great fit between two companies that share market-leading reputations, expert technical support, a spirit of innovation and relentless dedication to exceptional customer service. This will support the growth of our people and products even further, and I look forward to becoming a unified company with Univar Solutions."

Terms of the transaction were not disclosed. Closing of the acquisition is subject to certain regulatory approvals and is expected to be completed within Q1 2023.

Source : PRNewswire

## **YARA CLEAN AMMONIA AND JERA ANNOUNCE A MOU FOR JOINT PROJECT DEVELOPMENT AND SALES & PURCHASE OF CLEAN AMMONIA**

Yara Clean Ammonia (YCA) signs Memorandum of Understanding (MOU) with Japanese company JERA Co. Inc. to decarbonize coal-fired powerplant and develop blue ammonia production in the US Gulf.

Yara Clean Ammonia has been successfully nominated as a potential supplier in JERA's tender to supply up to 500 kilotons (kt) of clean ammonia to the Hekinan Thermal Power Plant Unit 4. This is JERA's first commercial scale co-firing project.

"I'm very pleased that Yara and JERA are signing a MOU for the joint project development, sales and purchase of clean ammonia. Yara has the capacity to produce and ship clean ammonia all over the world and we are a reliable, safe and long-term supplier. We are highly committed to this partnership and look forward to joining forces with JERA to drive the transformation to a net-zero world", says CEO of Yara International, Svein Tore Holsether.

The two companies also plan to collaborate on blue ammonia production in the US Gulf and to produce more than 1 million metric tons per annum (mtpa).

"I'm happy to see that we've developed a close relationship with JERA since our first MOU in May 2021. Our collaboration has developed deeply, and I am proud that Yara Clean Ammonia has been selected as the reliable supplier to JERA's first world scale co-firing project

in Hekinan, Japan. Both companies are committed to scaling up clean energy sources and we are looking forward to partner with JERA in developing blue ammonia production in the US Gulf", says President of Yara Clean Ammonia, Magnus Krogh Ankarstrand.

In the MOU, Yara Clean Ammonia and JERA have agreed to jointly study the viability to collaborate in the following areas:

- The sales and purchase of clean ammonia for the 20% co-firing operations at Hekinan Thermal Power Plant Unit 4, which is targeted to commence in 2027. The required volume is expected to be up to 500,000 mtpa.
- The joint development of a 1 million plus mtpa blue ammonia project which YCA is considering developing in the US Gulf Coast.

**"We are pleased to work together with Yara on this significant journey towards decarbonizing the industry, and I am confident that Yara will take an important role in establishing a new clean fuel ammonia value chain which JERA seeks, through its experience in the operation throughout the ammonia supply chain from the production to transportation and storage in the existing market. JERA will continue its own efforts as well as to take hands with our partners in pursuit of our endeavour to realize and accelerate not only the decarbonization of the Japanese energy industry but also to solve the energy-related issues that the world is facing", says Corporate Vice President in JERA, Yukio Kani.**

Source : Yara





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People and Culture will play a pivotal role in driving the company's cultural transformation. "Our people are the heart and driving force of our company, and we recognize that a corporate culture rooted in strong core values is what will make us the best and most inspiring company in the industry," said Peter Vanacker, LyondellBasell CEO. "By instilling the right corporate culture, I am convinced that we can improve our global employee experience and further increase our operational performance."

**"This is an exciting time to be joining LyondellBasell, where the company is enhancing its vision, mission and values," said Trisha Conley. "People, diversity, equity and inclusion, and a purpose- and value-driven organization are key factors in excelling as a company. I look forward to leveraging my experience, engaging this great team and helping LyondellBasell continue to thrive."**

Trisha brings more than 25 years of ex-

perience in the oil and gas industry as well as the renewable products sector leading human resources, talent management, global integration and organizational development. She comes to LyondellBasell from Chevron Renewable Energy Group, where she was Senior Vice President, People Development. Prior to that, she was the Vice President of Human Resources at BP

Source : PRNewswire

## IIT Bombay Annual Chemical Engineering Symposium Azeotropy On 18th And 19th March 2023

IIT Bombay's annual chemical engineering symposium, AZeotropy, organized by chemical engineering students, will be held in Mumbai on the 18th - 19th of March, 2023. For 17 years, AZeotropy has been a cornerstone event in the chemical engineering community, bringing together students, academia, and industry professionals to explore the latest advancements and emerging areas in this field. The symposium comprises diverse events involving a unique blend of chemical engineering-based competitions, lecture series, panel discussions, exhibitions, workshops, and informal events. Azeotropy has been recognized as the leading chemical engineering symposium in Asia, with a participation of over 5000 students from over 300 different engineering colleges all over India and more than 50 corporate personalities.

With the theme of "Ecotopia-Into The Greenverse" in its last edition, AZeotropy aimed to raise awareness and knowledge about sustainability and safety in chemical engineering. After a three-year online execution, the event returns with even more excitement, as it will be con-

ducted offline, providing a platform for in-person exchange and collaboration. The event provides students with the opportunity to showcase their knowledge and engage in hands-on learning experiences, while industry professionals have a chance to interact with students and academia, offering a unique perspective on the latest trends and advancements in the field. The symposium has witnessed lectures by eminent personalities such as Gerald Fuller (Professor of Chemical Engineering at Stanford University), Mayuresh Kothare (R. L. McCann, Professor & Chair of Chemical Engineering, Lehigh University), Douglas Buttrey (Professor at the Department of Chemical & Biomolecular Engineering, University of Delaware), Shirish Garud (Director at Energy-Environment Technology Development), Harsha Bhogle (an Indian cricket Commentator and journalist), Abraham D Stroock (Cornell University), Sandra Kentish (University of Melbourne), and more.

We organize a series of interesting competitions, like the Industry Design problem, sponsored by The Ocean Club,

Rotary Club of Mumbai SOBO, and Sanjeeta. The participants solve a real-time industrial problem. AZeotropy is a model-making competition that challenges the students to power a car with non-conventional energy sources using Chemical Engineering knowledge. We provide a platform for researchers to showcase their work to a panel of experts and industry leaders. To know more about the other competitions we organize, visit our [website](#).

The 17th edition of AZeotropy has 'Reliance Industries Limited' as the title sponsor and is powered by 'Anupam Rasayan India Limited'. The industrial sponsor is 'Alkyl Amines Chemicals Limited'. The fest is organized in association with 'Jay Chemicals'. With a wealth of knowledge and insights to be shared, Azeotropy 2023 promises to be an unforgettable event for anyone interested in chemical engineering. We hope to see greater participation than in previous years and look forward to the many exciting discussions and presentations that will take place

Source : Chemical Market



# Cosmo Films Participating in Plastindia Label Expo Gap Expo Etc

New Delhi, January 16, 2023: Cosmo Films, a global leader in speciality films is all set to participate in the 11th edition of PLASTINDIA 2023 from 1st to 5th February 2023 at New Delhi and Label Expo from 9th – 11th February at Bangkok respectively. It has also recently participated in Gap Expo in Bangladesh and going to participate in many other exhibitions during the year. Key industry players across the world will participate in the exhibition with the aim to showcase their existing range of products and services, tap into industry opportunities and trends, and network with the world's leading suppliers and industry experts.

Cosmo Films will be showcasing their entire range of products from flexible packaging including label, lamination, packaging, synthetic paper, and industrial films, along with their newly

launched products - PET-G shrink label films and Cosmo Plastech (Containers) as well as Adhesives (Flexible Packaging and Lamination). Focusing on innovation, sustainability, and growth while facilitating modern techniques, the exhibition intends to encourage advances in the packaging industry and strengthen India's standpoint as a global sourcing hub for packaging.

Cosmo Films understands the importance of sustainable and efficient packaging in today's market and is proud to offer solutions that not only protect and preserve products but also reduce environmental impact. Their team of experts will be available at the exhibition to discuss custom packaging options and answer queries from visitors and delegates.



**Sharing his thoughts on the same, Mr. Pankaj Poddar, Group CEO, Cosmo First said, “Sustainability has been at the core of our innovative approach. Our newest products like**

**PET-G shrink label films and Cosmo Plastech (Containers), have been conceptualised keeping the needs of the industry, consumers, and the planet in mind.”**

Source : Chemical Market

# Braskem Announces Project to Evaluate Production of Bio-Based Polypropylene

PHILADELPHIA, Pa. - January 17, 2023 - Braskem (B3: BRKM3, BRKM5, and BRKM6; NYSE: BAK; LATIBEX: XBRK) the largest polyolefins producer in the Americas, as well as a global market leader and pioneer producer of biopolymers on an industrial scale, today announced a project to evaluate an investment in producing carbon negative bio-based polypropylene (PP) in the U.S. The project would utilize Braskem's proven, proprietary technology to convert bioethanol into physically segregated bio-based polypropylene. Braskem is exploring partnership opportunities for this project with several clients, brand owners, and suppliers.

Mark Nikolich, Braskem America CEO, commented, "Building on our core technology and market leadership, we are actively evaluating a project to produce the world's first bio-based polypropylene on an industrial scale to support our ambitious sustainability objectives and deliver tangible solutions to our clients. As an established leader in the innovation and production of bio-based materials, we have seen the demand for Braskem's



bio-based materials grow significantly since our initial product launches. This new U.S.-based project would not only serve a growing market for sustainable solutions but also reduce Braskem's reliance on fossil feedstock. Expanding our portfolio to include bio-based PP supports Braskem's goal of 1MM tons of biopolymers capacity by 2030 and becoming carbon neutral by 2050."

The U.S. is home to the largest ethanol



industry production in the world and consists of ample technology, infrastructure, and supply availability for a project in the polymers' value chain. Braskem's bio-based PP would be a drop-in solution that has the same technical properties and recyclability found today in Braskem's current PP portfolio, with the additional benefit of a negative carbon footprint. As the largest PP producer in the Americas and utilizing its proven technology at an industrial scale, Braskem's bio-based PP would be a first-of-its-kind solution to address

brand owners' and OEMs' transition to a more sustainable future.

**Our ambition is to be among the global leaders in Greenhouse Gas (GHG) emissions reduction and a key player in carbon capture through the production of materials with renewable, biobased raw**

**materials. By 2030, we seek to reduce scope 1 and 2 greenhouse gas emissions by 15%; and to achieve carbon neutrality by 2050. To learn more, visit <https://www.braskem.com/usa/macroobjectives>.**

Source : Braskem

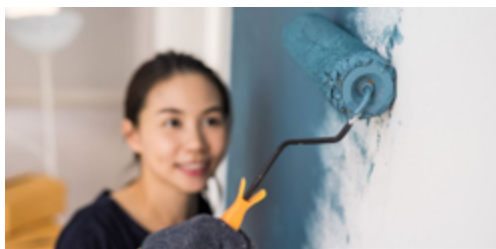
## Eastman Coalescent Receives Prestigious Green Seal® Verification

KINGSPORT, Tenn., January 18, 2023. In line with Eastman's continued commitment to environmentally friendly products, the company has been recognized by Green Seal® for its Eastman Optifilm™ enhancer 400 (OE 400).

OE 400 is a low-VOC-emitting, low-odor coalescent that is compatible with a variety of latex types. Its efficiency aids in the development of latex paints, resulting in a formula with balanced performance properties.

“Over the past decade, sustainability at Eastman has evolved into a fundamental pillar of our organization,” said Levi Aray, segment market manager for Eastman's decorative coatings business. “We continue to develop new and enhanced coatings solutions that protect our customers' products and our planet.”

**Green Seal's GS-11 certification standard for paints, coatings, stains and sealers sets strict limits on VOCs and prohibits hazardous ingredients, including formaldehyde and other chemicals linked to cancer and reproductive harm. Green Seal verification demonstrates that OE 400 is compliant with the**



**chemical-specific criteria in the GS-11 standard when used in paints, coatings, stains and sealers with a maximum concentration use of 100%.**

OE 400 enables the formulation of low-VOC-emission paints without compromising film integrity, touch-up properties or scrub resistance. Paints prepared with OE 400 have also demonstrated exterior durability following long-term exposure.

Source : Eastman

## New IDC® at Pharmapack: Airnov's latest innovation to be on display to the world at upcoming event

- The new desiccant closure has been developed to reduce the number of components needed to have a com-

plete desiccant system for pharmaceutical bottles

- Solution to cover both US and European market standards





- Pharmapack 2023 to take place at Paris Expo on February 1-2, with Airnov located at booth H44 and the new IDC also on display at the Innovation Gallery

January 19, 2023 – Airnov Healthcare Packaging, a global leader in controlled atmosphere packaging, has launched a brand-new advanced solution which promises to provide substantial benefits to the pharmaceutical industry.

IDC® (Integrated Desiccant Closure), enables manufacturers to reduce the number of components that would typically form a complete desiccant system in a bottle by integrating the desiccant into the closure.

The unique design, which is protected by two patents, is expected to be adaptable on SP 400 bottles and also includes a child-resistant system and a new tamper-evident disk on the top, with a key goal of the IDC® being able to unify packaging standards globally.

In the US and European markets, there are different sizes and approaches to

standard bottles and the ways in which desiccants are integrated into them. With the newly launched IDC®, Airnov is offering a solution that covers both market standards, reducing the need for complex bottle packaging in each region.

The IDC® can be leveraged for the protection of all sensitive products which require safeguarding against humidity, including various pharmaceutical medicines which risk being spoiled by exposure to moisture.

“This is why we are excited to bring IDC® to Pharmapack,” commented Dr. Elisa Le Floch, product lines manager at Airnov. “With this product, we can support

companies operating in the pharmaceutical, nutraceutical and diagnostic sectors by removing several operational steps on their filling lines.”

As well as these numerous practical benefits, visitors to Pharmapack will

also be able to see IDC® on display at the Innovation Gallery and experience first-hand how it can support key environmental objectives by cutting the use of materials in comparison to incumbents currently on the market.

**“Sustainability will always be front and center of our product development, and IDC® is no different in that**

**respect,”**

**Elisa Le**

**Floch added.**

**“Our job is to make the lives of our customers easier with**

**efficient, smart solutions that also deliver on important environmental metrics.”**



Source : Press Release

## The Brazilian Industry Presents Solutions that Favor Sustainability and the Circular Economy for the International Textile Market

SÃO PAULO, Jan. 19, 2023 /PRNews-wire/ -- Represented by manufacturers Albrecht, Audaces, Castilho, Come-lato, Delta, Inarmeg, Laudatec, Porta Cabos and Socio Tec, the Brazilian textile industry will be present at Colombiatex of the Americas. The event, which takes place in Medellín, Colombia, between January 24 and 26, is the main business center of this sector and kicks off the season of fairs in the Latin American continent. More than 500 exhibitors and 12,000 buyers will participate in this edition.

The presence of the nine companies is promoted by the Brazil Machinery Solutions (BMS) Program, a partnership between ApexBrasil (Brazilian Agency for the Promotion of Exports and Investments) and ABIMAQ (Brazilian Association of Machinery and Equipment Industry).

### Association between Brazil and Colombia

Colombia is the 5th main destination for Brazilian textile machinery and

equipment exports. In 2022, Colombian imports generated close to 2.7 million dollars for Brazil, with a growth of 173% in the last five years. In the same year, the purchasing country represented 4% of the Brazilian export market, which totaled more than 66 million dollars in the sector.

Since 1980, the fair has publicized news related to textile products, leather goods, the clothing and footwear industry, as well as fashion designers, through a forum on trends and the promotion of



the graphic print market. In addition, Colombiatex installs the knowledge pavilion, in which exhibitors attend conferences with specialists from various countries and have the opportunity to discuss the challenges of the fashion industry.

### Brazilian companies in Colombiatex

On the 25th, Denim Day will be celebrated, a tribute to denim, one of the most relevant and representative fabrics of recent years. Aware of the importance of the subject, the participating Brazilian companies developed solutions that guarantee the quality of the delivery and the management of the denim process, with extensive integration of data and information in real time, as well as sample washers, which facilitate a substantial water and energy savings.

Sustainability and inclusion are other relevant points promoted by the event. The objective of this edition is to reinterpret the processes and reaffirm the commitment to reduce environmental impacts, prioritizing circular awareness. This is a concept that associates economic development with a better use of natural resources through new business models and the optimization of manufacturing processes with less dependence on virgin raw materials, in which more durable inputs are prioritized, re-

cyclable and renewable.

Taking into account the sustainability agenda, the Brazilian industry will present air-to-air heat recuperators that, as the name implies, recover the heat withdrawn from the atmosphere to heat the fluids used in production. The equipment reduces fuel consumption by 20-30%, decreases CO<sub>2</sub> emissions, increases work speed and reduces smoke generation by 30%. In turn, the air-water heat recovery units generate hot water from waste gases and reduce smoke by 50%.

In the context of reducing environmental impact, testing machines, relaxing machines, and continuous fabric preparation and bleaching lines will be some of the key equipment, such as the continuous washing line, which is one of the solutions with the least water consumption per kilo of knitted fabric.

Automation is an essential factor, since it can make up for the lack of specialized labor in the industry. In this sense, Brazilian companies will offer several innovations: a pocket sewing machine with automatic feeding capable of producing

two thousand units in eight hours with just one operator and a 2x1 automatic cross-sewing machine with immediate change of spools will be presented, to people who produce towels for the common market and want to produce for the hotel sector.

**The metaverse will also be part of the trends presented by Brazil at Colombiatex, which will offer an immersive experience in the virtual universe based on 3D software created for stylists and fashion designers, as well as plotters for digitized cut lines on paper molds, and other digital modeling programs. Another great novelty will be the 3D digital catwalk, of pieces that stylists and pattern creators will be able to create directly on the computer, with the aim of using technology to further digitize the manufacturing processes in the Colombian market, from the departments from creation to the production process.**



ware created for stylists and fashion designers, as well as plotters for digitized cut lines on paper molds, and other digital modeling programs. Another great novelty will be the 3D digital catwalk, of pieces that stylists and pattern creators will be able to create directly on the computer, with the aim of using technology to further digitize the manufacturing processes in the Colombian market, from the departments from creation to the production process.

Source : PRNewswire

## LG Chem LUCON® TX5007, the Engineering Plastic Used for Electrostatic Powder Coating is Now Applied to Japanese Global OEM's Front Fenders

LG Chem has started supplying engineering plastics to Mitsubishi Motors for its powder coating parts used as the front fenders of RVR, Delica D:5 and Outlander models

Front fender is located on the side of the vehicles, which not only acts as one of key factors in the exterior design but

also protects its wheels from road debris. Thus, it not only should possess a high level of mechanical robustness but also an excellent exterior quality to keep a high integrity design with the rest of the car body.

LUCON TX5007 developed by LG Chem is a compound material that

combines modified polyphenylene ether (mPPE) and polyamide (PA66) alloy with carbon nanotubes (CNTs), and has an excellent electrical conductivity and show strong mechanical properties. In addition, this product has an outstanding heat resistance, making it suitable for the automotive on-the-line painting process at 200 °C or higher. At the



same time, it also provides an excellent dimensional stability thanks to its low coefficient of linear thermal expansion (CLTE).

In general, applying plastics instead of steel/aluminum contributes to automotive light weight. When a plastic fender is used, the weight of the vehicle is reduced by about 4 kg, which also improves fuel efficiency. Furthermore, plastic fenders can provide other benefits, such as reduced fuel exhaust emissions and carbon footprints.

In addition to LUCON TX5007, LG Chem has a broad portfolio of products that can be used for large-scale automotive exterior parts that need to utilize powder coating process. These products can be customized to meet automotive suppliers' diverse parts requirements for fenders, bumper panels, hoods, tailgates, fuel doors, and side mirrors.

**At the same time, LG Chem is using CNT, a filler that produces excellent conductivity even with a small amount in its engineering plastics to support diverse requirements of customers. Since this material can cover a wider range of electrical conductivity compared to other carbon fillers such as Carbon Black and Carbon Fiber, it is considered an optimal solution**



**for powder coating. LG Chem has not only built its own CNT production line, but now expanding its 4th plant for a mass production in 2024, for the reliable supply of high-quality products for powder coating.**

Source :LG Chem

## A Toray Develops Recycled Nylon 66 Recovered from Silicone-Coated Airbags

Tokyo, Japan, January 26, 2023 – Toray Industries, Inc., announced today that it has developed recycled nylon 66 recovered from silicone-coated airbag fabric scrap cuttings. This material achieves the same flowability and mechanical properties as injection molding grades from virgin nylon 66.

The company created this product by combining particular additives with resin that REFINVERSE Group, Inc., recycled by stripping silicone from airbag fabric scrap cuttings, and thereafter washed. The new offering will debut as Ecouse AMILAN™. Toray looks for that offering to accelerate the expansion of Ecouse (pronounced Eco-Use), a proprietary integrated brand for eco-friendly recycled materials and products that it rolled out worldwide in 2015.

The nylon 66 fabric of airbags can be

silicone-coated or non-coated. Manufacturers normally recycle the scrap cuttings of non-coated fabrics. Recycling coated airbag fabric scrap cuttings requires removing the silicone. REFINVERSE was the first in Japan to achieve commercial-scale silicone-coated fabric recycling.

Recycling through stripping and washing has typically left silicone traces, however, degrading the resin and contaminating molds during injection molding. Another issue has been that the high viscosity of airbag yarn limits applications in thin-wall and other injection molding processes in which high fluidity is vital.

Toray accordingly combined particular additives so residual silicone resin would not migrate to the surface of molded products. It also greatly reduced

mold adhesion. That is why the flowability and mechanical properties of recycled nylon 66 with Toray's technique are on par with those of virgin nylon 66.

Toray plans to start full-fledged sample work in April 2023 or later. It ultimately looks to procure recycled raw materials at its overseas sites to establish a global supply system. It will also explore commercializing recycled nylon 66 products made from airbags recovered from end-of-life vehicles.

The company has cultivated recycled plastic products derived primarily from post industrial scrap materials from in-house production processes, undertaking such efforts as recycling used air conditioner parts into new ones. It aims to extend recycling to used automotive parts and industrial equipment.





Toray intends to launch Ecouse TORAYCON™ as a chemically-recycled polybutylene terephthalate resin product that has properties equivalent to virgin materials. It will keep assessing material recycling and

chemical recycling for its own polymers in driving to expand the Ecouse lineup by bringing out such products as Ecouse TOYOLAC™ acrylonitrile butadiene styrene, Ecouse TORELINA™

polyphenylene sulfide.

One goal of the Toray Group Sustainability Vision is to help the world manage resources sustainably by 2050. It will keep catering to customer demand for eco-friendly resins to materialize its corporate philosophy of contributing to social progress by delivering new value.

Source : Toray

## Clariter and TotalEnergies Fluids Announce a World Premiere: the Production of the First Ultra-Pure Solvents Made from Plastic Waste

Paris/Luxembourg, January 31, 2023 – Clariter, a global cleantech company, and TotalEnergies Fluids, a division of TotalEnergies, have premiered the world's first sustainable ultra-pure solvent made from plastic waste.

Ultra-pure solvents are used in pharmaceutical, cosmetics and other highly demanding markets that require safe, colorless, odorless, and tasteless products that meet the highest pharmacopoeia-standard purity criteria. Producing these solvents from plastic waste not only significantly reduces their environmental footprint, but also contributes towards addressing the challenge of end-of-life plastics.

This technological and industrial success is the fruit of an 18-month collaboration between Clariter and TotalEnergies Fluids on joint research and development. Clariter leverages its proprietary innovative upcycling technology to transform plas-

tic waste into sustainable, high-quality solvents, waxes, and oils. TotalEnergies Fluids then further converts the upcycled materials using its Hydro-De-Aromatization (HDA) technology into very high purity solvents that meet the quality levels required for the most stringent applications.

This groundbreaking innovation demonstrates the commitment of the two partners to develop high-quality low carbon footprint products and to contribute to the development of the circular economy.



“Developing products of such high quality from plastic waste is a triumph for our joint R&D work”, said Dr.

Daria Frączak, Clariter's Scientific Director. “Clariter's know-how and experience in plastic upcycling, together with TotalEnergies Fluids' deep knowledge of stringent industry requirements, came

together to develop a process to produce sustainable solvents that meet the highest purity standards. We are thrilled to have achieved this significant milestone in our journey towards bringing to industry sustainable, high-quality products made from plastic waste.”

“This new technology opens a broad field of solutions to help our industrial customers decarbonize their industry, and fully integrates within our target of commercializing 30% low carbon solvents by 2030”, said Didier Ribault, TotalEnergies Fluids Business Development Director. “This partnership marks yet another step forward in TotalEnergies Fluids' development of a comprehensive range of circular products.”

Source : Press Release



# Archroma Starts the FiberColors\* Revolution

**P**ratteln, Switzerland, 26 January 2023 - With the Earth population reaching 8 billion in November 2022, the need to address the issue of textile waste becomes more critical.

According to earth.org, 92 million tons of textile waste is produced every year, a number that is expected to soar to 134 million tons by the end of the decade. Around 85% of all textiles discarded in the US are said to end up in landfills, leading to land and water pollution impacting first and foremost local communities.

Archroma, a company who creates colors for fashion, decided to look at the issue creatively: what if it could create colors from waste fashion?

Archroma had already developed a way to turn waste from the herbal and food industry into its range of EarthColors® featured by brands such as G-Star, Patagonia, Esprit, Tom Taylor, Pangaia, UGG, and Primark.

Archroma is now introducing another ground-breaking innovation: the FiberColors\* technology.

With this technology, Archroma upcycles textile waste into gorgeous colors. The colors are synthesized from a minimum content of 50% waste-based raw material.

Archroma's R&D experts have developed a way to use cotton and/or polyamide and their blends (with a >95% purity) to substitute the major part of the petroleum-based raw material usually used to make dyestuff.

**The resulting FiberColors\* range, which is patent-pending and therefore exclusive to Archroma, includes five dyes covering a palette**

**of timeless shades:**

**Diresul®**

**Fiber-Teak**

**(brown**

**shades),**

**Diresul® Fi-**

**ber-Ochre**

**(olive shades), Diresul®**

**Fiber-Maroon (bordeaux**

**shades), Diresul® Fi-**

**ber-Slate (blue grey shades)**

**and Diresul® Fiber-Graph-**

**ite (dark grey shades).**

The dyes are especially suited for cellulose fibers such as cotton, viscose, linen

and kapok, and can be used in continuous, exhaust, denim and garment dyeing and printing processes.

With this, a brand can turn its own pre- and post-consumer textile waste into its own beautiful colors, and create a complete collection including t-shirts, chinos, sweatshirts, hoodies, polo shirts, and home textiles.

FiberColors\* are ideal for forward-thinking companies who want to help find a solution to textile landfills, and at the same time give value to waste including articles collected in their take-back schemes that cannot be reused.

Heike van de Kerkhof, Chief Executive Officer of Archroma, comments: "After

creating colors from food and herbal waste with EarthColors®, we are taking a step further in circular manufacturing with FiberColors\*, addressing the huge textile and fashion waste global issue. This is how we make our purpose to lead our industry towards a more sustainable future for our customers and markets, a reality. Because it's our nature."

Source : Press Release



## Ultrazur™: Heubach Launches Top Performing Range of Sustainable Ultramarine Blue Pigments

- Excellent product properties and different shades and grades that meet the requirements for widespread applications
- Modern manufacturing site in Da-

hej, India ensures highly consistent quality and excellent environmental performance

**V**ienna/Austria; Dahej/India, January 24, 2023 - The Heubach Group,

a global leader in inorganic and organic pigments and comprehensive color solutions launches its new product line Ultrazur™ at PlastIndia 2023: A range of Ultramarine Blue pigments in four shades from greenish to reddish for a



variety of standard and demanding applications.

Ultrazur has been tested extensively against market benchmarks and displays excellent product properties that make it an optimal choice for a range of different applications that require a medium

to high performing Ultramarine Blue pigment. It is highly resistant to heat (up to 350°C), light (lightfastness of 8 in HDPE) and exhibits strong weatherability. It is non-warping and non-shrinking, thus maintaining the dimensional stability of polyolefins. The new technology used in the final production step of Ultrazur provides excellent dispersibility making it a perfect choice for fibres and thin film applications. Ultrazur is a safe product in processing and final use. It is non-toxic, does not migrate and



complies with industry norms for use in sensitive applications (registrations are expected for Q2 2023).

**Ultrazur is manufactured in Heubach's site in Dahej, India, in a brand-new**

**production facility with state-of-the-art technology and highly automated processes. This ensures highly consistent quality and excellent environmental performance: "Ultrazur is the "greenest" Ultramarine Blue in the market. Our**

**modern manufacturing site in Dahej boasts of best-in-class wastewater and air emissions treatment technology. Further reduction on CO2 emissions in manufacturing will come throughout 2023 based on our investments in solar energy," highlights Ravi-chandran Palanivelu, Head of Business Development Ultramarine Blue at Heubach.**

With Ultrazur, Heubach adds a powerful new pigment to its broad and innovative range of sustainable colorant solutions for plastic applications. For more information, please visit us at our booth at PlastIndia 2023, or at <http://www.heubach.com>.

Source : Press Release

## Toray Develops High-Speed Thermal Welding Technology for Carbon Fiber Reinforced Plastics that Contributes to High-Rate Production and Weight Savings of Aircraft

Tokyo, Japan, February 1, 2023 – Toray Industries, Inc., announced today that it has developed a technology that thermally welds carbon fiber reinforced plastics (CFRP) at high speed. This technology will enable high-rate production and weight savings of CFRP airframes. The company will push ahead with demonstrations with a view to commercializing airframes after 2030 while further expanding CFRP applications.

Global aircraft demand should recover

through 2025 after stagnating amid the COVID-19 pandemic. Demand for next-generation aircraft with 120 to 240 seats should be heavy from 2030. Thermosetting CFRP is the primary structural material for aircraft main frames because of its long use and high reliability. The downside is that complicated adhesive bonding and bolt fastening processes of CFRP have become assembly bottlenecks. CFRP production times greatly lag those for aluminum alloy airframes. High-rate production and weight savings that help enhance fuel ef-

iciency will be important to capture prospectively large demand.

Toray developed a thermal welding technology that swiftly and robustly joins thermosetting CFRP components for aircraft like conventional welding would do.

This simple bonding approach employs Toray's technology to form a thermally weldable layer on the surface of thermosetting CFRP, instantaneously heating part surfaces to bond them. This tech-



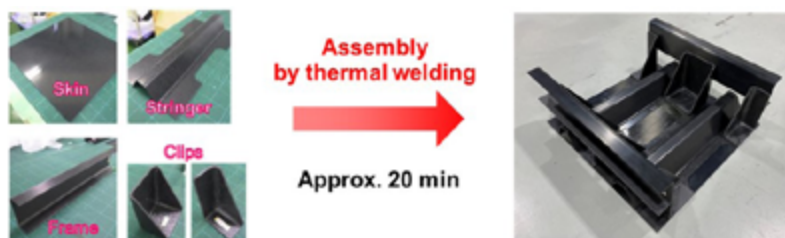


nology enables high-speed assembly of thermosetting CFRP parts or thermosetting and thermoplastic CFRP parts without the need for adhesive bonding and bolt fastening.

Using this technology to thermosetting CFRP with thermally weldable layers offers the same mechanical properties as CFRP for current aircraft models. Toray demonstrated that the joint strength of thermally welded structures is equivalent to that of co-cured CFRP structures for current aircraft models, ensuring the reliability of bonding technology for practical application studies. The company assembled a demonstrator simulating the elemental structure of an aircraft at high-speed using thermally weldable thermosetting CFRP parts. Thereby, its elemental technology concept was confirmed. Toray's technology should achieve a high-rate production that matches or surpasses that for aluminum alloy airframes.

A CFRP airframe using Toray's technology should reduce carbon dioxide emissions across the life cycle compared with those for an aluminum alloy airframe. Cutting the weight of bolt fasteners should lighten airframes, and further reducing these emissions.

Toray has partnered with Boeing to pro-



mote a number of technological development projects in the fields of aircraft manufacturing and materials technology.

Some of Toray's progress through this development effort is based on results obtained from a project, "Development of New Innovative Composite Materials and Forming Technologies," supported by the New Energy and Industrial

Technology Development Organization (NEDO).

**Under the Toray Group Sustainability Vision, the company committed itself to helping resolve environmental, resources, and energy issues through business. In keeping with its corporate philosophy of contributing to social progress by delivering new value, the company will keep creating advanced materials and innovative technologies that contribute to a carbon-neutral economy.**

Source : Toray

## Recyclable Materials for Cars with Additive Specialties from Evonik

- Evonik supports BMW's "Future Sustainable Car Materials (FSCM)" project with its plastics specialty chemicals expertise
- Consortium of top-class industrial and scientific partners pools know-how for circular solutions in vehicle production
- German Federal Ministry for Economic Affairs and Climate Protection (BMWK) supports the project

Essen, Germany. A consortium of 19 leading industrial companies and research institutes, including the BMW Group, Evonik, Thyssenkrupp, the

Fraunhofer Institute, and the Technical University of Munich, has set itself the goal of developing new processes for using sustainable materials for circular automotive production. Evonik is contributing its expertise in plastics and additives for recycling to the project. The project, which is funded for three years by the German Federal Ministry of Economics and Climate Protection (BMWK), was launched at the end of last year.

The core of the "Future Sustainable Car Materials (FSCM)" initiative launched by BMW is to develop innovative process routes and material concepts for large parts of the value chain, thus en-

abling a circular economy in vehicle production.

"We are pleased to contribute our specialty chemicals expertise to this pioneering consortium of industry leaders and internationally renowned research institutions to develop circular plastics solutions for the automobiles of tomorrow," said Lauren Kjeldsen, member of the Executive Board of Evonik Operations GmbH and head of the Smart Materials Division.

According to the principle of the circular economy, materials must be kept in the value chain after they have reached the end of their useful life so that new

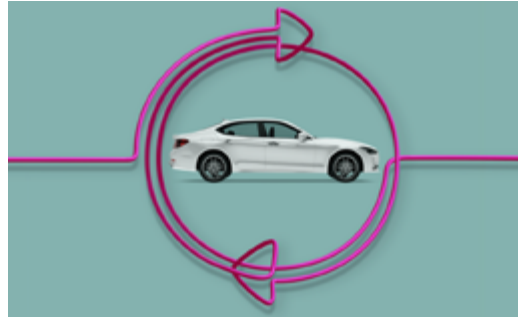


objects, such as automotive parts, can be produced without the use of fossil resources. It is particularly challenging to keep these materials in the cycle while maintaining the same quality and safety properties.

**"Our mechanical recycling experts work closely with recyclers to prepare methods for cleaning up plastic parts, such as separating paint at the end of useful life," said Patrick Glöckner, Head of the Global Circular Plastics Program at Evonik.**

**"We also work with compoundingers to develop solutions for using the highest possible proportion of recycled plastics in new automotive parts."**

This form of integrated collaboration enables the consortium to quickly identify challenges and jointly develop solu-



tions. Due to the high complexity of automotive manufacturing, the participants in the FSCM project are optimistic that the knowledge gained can also be applied to other industrial products in the future, such as commercial vehicles, electrical and household appliances, and will thus be a decisive impetus for future circular economy systems in the German economy.

Source : Evonik

## DSM Engineering Materials Launches Lucidiris™ A Color and Mechanical Properties Prediction Tool Powered by Artificial Intelligence AI

**G**leen (NL), 1 February 2023 - Today, DSM Engineering Materials announces the launch of Lucidiris™. Lucidiris™ helps customers reduce time to market when developing colors of high-performance materials for a variety of applications. Besides predicting color and mechanical properties, it can predict the envelope of potential color space within critical mechanical properties and prescribe recipes for targeted color properties. Lucidiris™ has been developed for several high-performance material grades and will be extended, including recycled-based and repurposed materials. It is a next step in DSM Engineering Materials' journey to make product development for their customers quicker and easier via advanced digital solutions.

This state-of-the-art patent protected Artificial Intelligence (AI) technology facilitates the development of material recipes with targeted optical properties

while assuring mechanical properties.

With Lucidiris™ customers will be supported by its ability to:

- Predict color and mechanical properties of polymer compounds upon addition of color ingredients.
- Predict envelope of potential color space that can be produced within critical mechanical properties.
- Prescribe color ingredients to add to a polymer compound to meet targeted properties.



"Lucidiris™ changes our design-build-test-learn development cycle for the customer applications of our materials fundamentally," said Erwin Houben, R&T Manager Digitization DSM Engi-

neering Materials. "This state-of-the-art AI based digital tool reinforces our strengths in colored materials development and enables to take on some tough challenges for reusing circular materials."

**"And there is more to come," said Angelika Schmidt, Global R&T Manager of Performance Polymers, DSM Engineering**

**Materials. "Lucidiris™ is our next step into digitization of product development. What we can do for color**



## EVENTS AND CONFERENCES

### CPHI CHINA - VIRTUAL CPHI

**Date:** JUNE 19-21, 2023

**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.

### CHEMSPEC EUROPE

**Date:** May 24-25, 2023

**City:** Messe Basel, Switzerland

**Country:** Europe

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

**Description:** With a highly specialised profile, Chemspec Europe is a key event for the fine and speciality chemicals industry. The exhibition is the place to be for purchasers and agents to meet with manufacturers, suppliers and distributors of fine and speciality chemicals to source specific solutions and bespoke products.

Chemspec Europe is a powerful gateway to global business and industry knowledge, making the event appealing to its international audience. The exhibition features the full spectrum of fine and speciality chemicals for various applications and industries.

Additionally, a wide range of free conferences provides excellent opportunities to network with industry colleagues and exchange competencies on the latest market trends, technical innovations, business opportunities, and regulatory issues in an evolving market.

### CPHI NORTH AMERICA

**Date:** Apr 25-27, 2023

**City:** Pennsylvania Convention Center, Philadelphia

**Country:** Philadelphia

**Website:** <https://www.cphi.com/northamerica/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 North America.





## EVENTS AND CONFERENCES

It's true, the U.S. alone accounts for 40% of the world's pharmaceutical sales and is home to 6 of the top 11 companies. But much more than that, this is a place of community-building connections. A forum for thought leadership. The hub of innovation. And it all comes to life at CPHI North America.

### PAINT INDIA

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

**City:** Greater Noida, Delhi – NCR

**Country:** India

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

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

### CPHI JAPAN

**Date:** Apr 19-21, 2023

**City:** Tokyo Big Sight, Tokyo

**Country:** JAPAN

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

### CHEM UK EXPO

**Date:** MAY 10 - 11, 2023

**City:** NEC, Birmingham, UK

**Country:** UK

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

**Description:** CHEMUK 2023 will return on the 10th & 11th May 2023 running in Hall 1 at the NEC, Birmingham. The expo will present 400+ specialist exhibitors and 150+ expert speakers split between three major show zones:

- **Chemical Industries Supply Chain**
- **Chemical, Process & Plant Engineering**
- **NEW FOR 2023: CHEMLAB**

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



## Booking price as on 10/01/2023

Current Exchange rate- $\$1 = 82.22$  INR

Chemicals name	Current Prices	Type
Acetic Acid	450	CFR India
Acrylonitrile	1370	CFR India
Benzene	870	FOB India
Phenol	1080	CFR India
Acetone	575	CFR India
Butyl acrylate monomer	1220	CFR India
C9 solvent	1060	CFR India
LAB	1710	CFR India
IPA	qq	CFR India
Methanol	330	CFR India
VAM	1060	CFR South Asia
Toluene	960	CFR India
Styrene monomer	1110	CFR India
NBA	900-970	CFR India
2-eha	1170-1250	CFR India
Iso butanol	800-850	CFR India
MEG	NA	CFR India
Mix xylene	990	CFR India
Glycerine	680	CIF India
DMF	1000	CFR India
Acrylic acid	1100	CIF India
Formic Acid	NA	CFR India
Adipic Acid	1350	CIF India
Ethylene	865	CIF India
PTA	740	CFR India
Propylene	865	CIF India
THF	2350	CIF India

## Mumbai Market Price as on 13/02/2023

Name of Chemical	Packing type	Units	Current Price
Acetic Acid	Imported Repack	Rs/Kg	51
	Domestic Intact	Rs/Kg	63
	Domestic Repack	Rs/Kg	51
Acrylonitrile	Imported Intact	Rs/Kg	170
	Imported Repack	Rs/kg	NA



<b>Acetone</b>	Imported Intact	Rs/Kg	NA
	Imported Repack	Rs/Kg	85
	Domestic Intact	Rs/Kg	100
	Domestic Repack	Rs/Kg	85
<b>Acetonitrile</b>	Imported Intact	Rs/Kg	180
	Domestic Intact	Rs/Kg	NA
	Domestic Repack	Rs/Kg	NA
<b>Aniline</b>	Imported Intact	Rs/Kg	170
	Imported Repack	Rs/Kg	NA
	Domestic Intact	Rs/Kg	170
	Domestic Repack	Rs/Kg	NA
<b>Benzene</b>	Domestic Repack	Rs/Litre	88
<b>Cyclohexane</b>	Imported Intact	Rs/Kg	135
	Imported Repack	Rs/Kg	NA
	Domestic Intact	Rs/Kg	122
	Domestic Repack	Rs/Kg	115
<b>Cyclohexanone</b>	Imported Intact	Rs/Kg	150
	Imported Repack	Rs/Kg	138
	Domestic Intact	Rs/Kg	NA
	Domestic Repack	Rs/Kg	141
<b>C9 Solvent (99.99% purity)</b>	Imported Repack	Rs/Kg	110
<b>C9 Solvent (Arham Petrochem)</b>	Imported Repack	Rs/Kg	109.75
<b>Dibutyl Phthalate</b>	Domestic Intact	Rs/Kg	137
<b>Diocetyl Phthalate</b>	Imported Intact	Rs/Kg	NA
	Domestic Intact	Rs/Kg	145
<b>Ethyl Acetate</b>	Domestic Intact	Rs/Kg	97
	Domestic Repack	Rs/Kg	92
<b>Formaldehyde(37%)</b>	Domestic Intact	Rs/Kg	20.5
	Domestic Repack	Rs/Kg	20
<b>Methanol</b>	Imported Repack	Rs/Litre	36
<b>Methyl Ethyl Ketone</b>	Imported Intact	Rs/Kg	137
	Imported Repack	Rs/Kg	125
<b>Methyl Isobutyl Ketone</b>	Imported Intact	Rs/Kg	230
	Imported Repack	Rs/Kg	205
	Domestic Repack	Rs/Kg	NA
<b>Methyl Methacrylate</b>	Imported Intact	Rs/Kg	151
	Imported Repack	Rs/Kg	NA
<b>Ortho Xylene</b>	Imported Repack	Rs/Kg	115





<b>Mixed Xylene</b>	Imported Repack	Rs/Kg	99
	Domestic Repack	Rs/Kg	100
<b>Monoethylene Glycol</b>	Imported Intact	Rs/Kg	68
	Imported Repack	Rs/Kg	58
	Domestic Intact	Rs/Kg	68
	Domestic Repack	Rs/Kg	58
<b>Iso propyl Alcohol</b>	Imported Intact	Rs/Kg	NA
	Imported Repack	Rs/Kg	97
	Domestic Intact	Rs/Kg	110
	Domestic Repack	Rs/Kg	97
<b>nButanol</b>	Imported Intact	Rs/Kg	NA
	Imported Repack	Rs/Kg	102
	Domestic Intact	Rs/Kg	120
	Domestic Repack	Rs/Kg	102
<b>Phenol</b>	Imported Intact	Rs/Kg	NA
	Imported Repack	Rs/Kg	115
	Domestic Intact	Rs/Kg	118
	Domestic Repack	Rs/Kg	115
<b>Phthalic Anhydride</b>	Imported Intact	Rs/Kg	112
	Domestic Intact	Rs/Kg	112
<b>Purified Terethaic Acid</b>	Domestic Intact	Rs/Kg	NA
<b>Styrene Monomer</b>	Imported Repack	Rs/Kg	110
<b>Toluene</b>	Imported Repack	Rs/Kg	93
	Domestic Repack	Rs/Kg	93
<b>Vinyl Acetate Monomer</b>	Imported Repack	Rs/Kg	110
Note-Above prices have been collected from experts and experienced outsources of the industry.Kindly verify from your end as well.			

<b>International Market Prices as on 14/02/2023</b>		
<b>Products</b>	<b>Regions</b>	<b>Current prices</b>
Feedstock Prices \$/unit		
Crude Oil (\$/barrel)	WTI CRUDE	79.23
	BRENT CRUDE	85.97
	MARS US	78.84
	OPEC BASKET	83.56
Natural Gas	New York	2.43
Gasoline	RBOB	2.51
Heating Oil	US	2.89
Ethanol	US	2.18
Propane	New York	0.83



Naphtha (\$/mt)	FOB Singapore	725
	European	730
	CFR Far East Asia	730
Aromatics prices \$/MT		
Benzene	FOB Korea	970
	CFR Japan	980
Styrene	CFR Japan	1080
	CFR South East Asia	1105
	CFR China	1092
	FOB Korea	1070
Toluene	CFR China	910
	CFR South East Asia	940
	FOB Korea	880
	CFR Japan	910
Iso-mix xylene	CFR South East Asia	935
	CFR Taiwan	975
	FOB Korea	955
MEG	CFR China	505
	CFR South East Asia	510
Methanol	CFR China	324
	CFR Korea	364
	CFR South East Asia	376
	CFR Taiwan	374
Solvent-MX	CFR South East Asia	945
	FOB Korea	970
	CFR China	865
Ortho xylene	CFR South East Asia	1105
	FOB Korea	1105
	CFR China	1100
Para xylene	CFR South East Asia	1005
	FOB Korea	995
	CFR Taiwan	1015
Propylene	FOB Japan	970
	FOB Korea	960
	CFR China	990
	CFR South East Asia	985
Propylene Glycol	FOB Korea	870
	CFR China	900
	CFR South East Asia	895
	CFR Taiwan	890



Ethylene	CFR North East Asia	870
	CFR South East Asia	875
	FOB Japan	865
	FOB Korea	870
Ethylene Di Chloride (EDC)	CFR Far East Asia	279
	CFR South East Asia	280
Butadiene	CFR China	1175
	CFR South East Asia	1095
	FOB Korea	1195
FOB Rotterdam USD/MT	Benzene	1010
	Methanol	338
	Ortho xylene	1475
	Para xylene	1215
	Xylene solvent	1020
	Styrene	1205
	Toluene	1070
USA Aromatics prices FOB US Gulf	Benzene C/G	413
	Toluene C/G	364
	Styrene C/LB	50.8
	Para xylene \$/MT	1125
	Mix xylene C/G	365
	Methanol C/G	108
Intermediates prices \$/MT		
Acrylonitrile	CFR Far East Asia	1520
	CFR South East Asia	1480
	CFR South Asia	1425
EDC	CFR Far East Asia	280
	CFR South East Asia	280
VCM	CFR Far East Asia	730
	CFR South East Asia	780
MTBE	FOB Singapore	933
	FOB US Gulf	1189
Phenol	CFR China	900
	CFR South East Asia	1080
	FOB US Gulf	1052
	FOB Rotterdam	1331
Acetone	CFR China	620
	CFR South East Asia	715
	CFR Far East Asia	685
	FOB US Gulf	728
	FOB Rotterdam	977





Caprolactum	CFR Far East Asia	1660
	CFR South East Asia	1650
Caustic Soda	FOB North East Asia	500
	CFR South East Asia	590
Ethyl acetate	FOB US Gulf	2000
	FOB Rotterdam	1267
	FD North West Europe(Euro/mt)	1280
Butyl acetate	FOB US Gulf	2400
	FOB Rotterdam	1717
	FD North West Europe(Euro/mt)	1700
MEK	FOB Rotterdam	1846
	FD North West Europe(Euro/mt)	1820
IPA	FOB US Gulf	1090
	FOB Rotterdam	1218
	FD North West Europe(Euro/mt)	1235
NBA	CFR China	1160
	CFR South East Asia	1165
	CFR Far East Asia	1155
Octanol	CFR China	1335
	CFR South East Asia	1385
	CFR Far East Asia	1225
DOP	CFR China	1325
	CFR South East Asia	1390
	CFR Far East Asia	1335
Phthalic anhydride	CFR China	1070
	CFR South East Asia	1255
	CFR Far East Asia	1065
PTA	CFR Far East Asia	765
	CFR South East Asia	800
Acetic Acid	CFR Far East Asia	435
	CFR South East Asia	435
	CFR South Asia	460
	FOB China	365
VAM	CFR China	1065
	CFR South East Asia	1005
	CFR South Asia	1175
Polymers prices \$/MT		
12	CFR Far East Asia	865-885
	CFR South East Asia	850-900
ABS Injection	CFR Far East Asia	1410-1470
	CFR South East Asia	1420-1460



Shipping term		Description
<b>FOB</b>	Free on Board	The seller quotes a price including the cost of delivering goods to the nearest port. The buyer bears all the shipping expenses and is responsible to get the products from that port to its final destination. In simple terms, FOB price means the buyer has to bear the shipping costs completely. This is one of the most used shipping terms by international buyers and sellers.
<b>EXW</b>	Ex-Works	The seller has no involvement with the transportation costs and risks. The buyer has to collect the goods from the seller's site and get them to the final destination. All the costs and risks are borne by the buyer. It is advisable that the buyer purchases insurance since the goods can get damaged in transit. EXW is ideal when the buyer and seller are in the same country or region.
<b>CFR</b>	Cost and Freight	The seller pays the loading and freight costs from his premises up to the destination port. Then, the buyer has to arrange for the goods to be transported from the port to his premises. The seller is only responsible for the cost of shipping the products to the destination port. CFR is used for products transported by sea or inland waterways only. The seller does not bear the risk of loss or damage during transit.
<b>CIF</b>	Cost, Insurance, and Freight	If the buyer opts for CIF price, the seller pays for the loading and freight costs right from his premises up to the destination port as well as insurance. In the case of damage or loss, the seller bears the risk completely. The buyer has to arrange for transportation of the goods from the port to his premises. CIF is a safer option than CFR since the goods are insured by the seller up to their arrival at the destination port.
<b>DAP</b>	Delivered at Place	It was previously known as DDU, Delivery Duty Unpaid. In this case, the seller is responsible for getting the goods from his own factory up to the premises of the buyer. He also bears the risk in the case of loss or damage of the goods right until the products are delivered to the buyer. The buyer only has to pay the import duties or custom clearance charges.
<b>DDP</b>	Delivery Duty Paid	The seller is responsible for shipping the goods from his factory to the destination address provided by the buyer, usually his factory or warehouse and is also liable for any damage or loss of goods during transit. The seller also takes care of the customs, VAT, or import duties levied on the products. The buyer only has to receive the products at the destination. In most cases, most sellers only offer DDP for small shipments.



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Opening Ports Price (Rs/kg) of Chemicals as on 14/02/2023				
USD Exchange Rate: 82.71 INR				
Alpha-bets	Chemicals Name	Current Prices (INR/kg)	Prices in USD/mt Equivalent to INR/kg	Location
A	Acetic Acid	42.5	513.84	Ex-Mumbai
	Acetic Acid	43	519.89	Ex-Kandla
	Acetonitrile-imported intact	200	2418.09	Bhiwandi
	Acetone	78	943.05	Ex-Mumbai
	Acrylic acid	104	1257.41	Ex-Bhiwandi
	Acrylonitrile	130	1571.76	Ex- Kandla
	Adipic acid	145	1753.11	Ex-Bhiwandi
	Aniline oil	150	1813.57	Ex-Kandla
	ABS Resin	138	166.48	Ex-Mumbai Market
B	Benzene	NA (83 Jagadia, 73 Steel Bhilai)	Not Availabale	Ex-Ankleshwar
	Butyl Acetate	99	1196.95	Ex-Kandla
	Butyl Acrylate monomer	130-131	Not Availabale	Ex-Kandla
	Butyl Glycol (Butyl Cellosolve)	130	1571.76	Ex-Kandla

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C	C10	107	1293.68	Ex-Kandla
	C9	89	1076.05	Ex-Kandla
	Carbon Black-regular grade	65	785.88	Mumbai
	Caustic Soda Lye	57	689.15	Ex-Bhiwandi
	Caustic Soda Flack 50%	54	652.88	Ex-Bhiwandi
	Chloroform	26	314.35	Ex-Dahej
	Citric Acid-Anhyd	97	1172.77	Ex-Bhiwandi
	Citric Acid-Mono	92	1112.32	Ex- Bhiwandi/Ex-Mumbai
	Cyclohexane	NA (99.5 RIL Jamnagar)	Not Availabale	Ex-Kandla
	Cyclohexanone	124	1499.21	Ex-Kandla
D	DMF Drum	NA	Not Availabale	Ex-Bhiwandi
	DEG	65	785.88	Ex Hazira
E	EDC	32.5	392.94	Ex-Kandla
	Epoxy Resin	210	2538.99	Ex-Nhava Sheva
	Ethyl Acrylate	NA	Not Availabale	Ex-JNPT
F	Formic Acid	60	725.43	Ex-Bhiwandi
G	Glycerine	69	834.24	CIF Nhava Sheva
H	N-Heptane	182	2200.46	Ex-Bhiwandi
	Hexane	80	967.23	Ex-Kandla
	Hydrogen Peroxide-50%	34 (34 NPL, 34 Maghmani)	Not Availabale	Ex-Bhiwandi
I	Isobutanol	94	1136.50	Ex-Kandla
	IsoPropyl Alcohol	88/89	Not Availabale	Ex-Kandla/Ex-Mumbai
L	LAB	137-138	Not Availabale	Imported
P	Phenol	103/104	Not Availabale	Ex-Kandla/Ex-Mumbai
	Phenolic Resin	160	1934.47	Ex-Indore
	Phthalic Anhydride	105	1269.50	Ex-Bhiwandi
	Propylene Glycol	95-97	Not Availabale	Ex-Kandla
	PVC Resin	88	1063.96	Ex-Mumbai Market



M	Maleic Anhydride-Drum	98	1184.86	Ex-Mumbai
	MDC	52	628.70	Ex-Dahej
	MEG	51.5	622.66	Ex-Mumbai
	MEK	108-110	Not Availabale	Ex-Kandla
	Melamine	109	1317.86	Imported
	Meta Para Cresol	255	3083.06	Ex-Bhilai
	Methanol	27.5	332.49	Ex-Kandla/Ex-Mumbai
	MIBK	205	2478.54	Ex-Kandla
	Mix Xylene-Solvent Grade	91	1100.23	Ex-Kandla
	Mix Xylene-Solvent Grade	92	1112.32	Ex-Mumbai
	Mix Xylene-Iso Grade	91	1100.23	Ex-Kandla
	Mix Xylene-Iso Grade	NA	Not Availabale	Ex-Mumbai
	MMA	145	1753.11	Ex-Kandla
N	N-Butanol	99	1196.95	Ex-Kandla/Ex-Mumbai
	N-Propanol	120	1450.85	Ex-Kandla
O	Octanol	123	1487.12	Ex-Hazira
	Ortho Cresol	270	3264.42	Ex-Bhilai
	Ortho Xylene	107 (102 RIL Jamnagar)	Not Availabale	Ex-Mumbai
S	Sodium Nitrate (50Kg Bag)	58	701.25	Ex-Taloja Plant(Make-Lasons)
	Soda ash light	44 (40 Kolkata)	Not Availabale	Ex-Bhiwandi
	Styrene Monomer	101.5	1227.18	Ex-Kanlida
	Styrene Monomer	101	1221.13	Ex-Mumbai
	Sulphuric Acid	6 Vapi / 8 kolkata	Not Availabale	Ex-Vapi
T	Tio2(Anatase Grade)	190	2297.18	Ex-Bhiwandi
	Tio2(Rutile Grade)	210	2538.99	Ex-Bhiwandi
	Toluene	86	1039.78	Ex-Kandla
	Toluene	87	1051.87	Ex-Mumbai
V	VAM	102	1233.22	Ex-Kandla
	VAM	103	1245.31	Ex-Hazira
Numbers	2,4-2,5 Xylenol	220	2659.90	Ex-Bhilai



Producer Prices (Rs/kg) of Chemicals as on 16/02/2023					
Producers	Chemicals Name	Current Price(Rs/kg)	Import parity price in USD/MT	Production capacity	Location
RIL	Toluene	88	1065.38	100,000 tonnes/year	Hazira
	Mix Xylene	87	1053.27	120,000 tonnes/year	Dahej
	MEG	56.6	685.23	750,000 tonnes/year	Jamnagar
	DEG	66.2	801.45	65,000 tonnes/year	Jamnagar
	TEG	110.8	1341.4	NA	Jamnagar
	LAB	165	1997.58	180,000 tonnes/year	120ktpa Patalganga, 60ktpa Vadodra
	PTA	82	992.74	1,300,000 tonnes/year	Dahej
IOCL	LAB	167	2021.79	120,000 tonnes/year	Koyali, Gujarat
	Paraffin Wax	102	1234.87		
Deepak Phenolics	Phenol	103.5	1253.03	200,000 tonnes/year	Dahej
	Acetone	77.5	938.26	120,000 tonnes/year	Dahej
	IPA Bulk	87	1053.27	30,000 tonnes/year	Dahej
HOCL	Phenol	114	1380.15	40,000 tonnes/year	Kochi
	Acetone	73	883.78	24640 tonnes/year	Kochi
Adipic acid	Ex-Deepak	NA	Not Available		
	Ex-BASF	195	2360.77	210,000 tonnes/year	Germany
SI GROUP	Phenol	103	1246.97	39500 tonnes/year	Ratnagiri, Maharashtra
	Acetone	64	774.82	24000 tonnes/year	Ratnagiri, Maharashtra
	Phthalic Anhydride	97	1174.33	11000 tonnes/year	Ratnagiri, Maharashtra
	Benzene	NA	Not Available	NA	NA
TATA Chemicals	Soda Ash light	46	556.9	900,000 tonnes/year	Mithapur
NIRMA	LAB	150	1815.98	120,000 tonnes/year	Vadodra



Arham Petrochem Pvt Ltd	C9	88.75	1074.46	69,000 tonnes /year	Arham - Kandla Energy & Chemicals Ltd Refinery
	C9	89.75	1086.56	69,000 tonnes /year	Arham - Ahmedabad Refinery
	C10	106.5	1289.35	30,000 tonnes /year	Arham - Kandla Energy & Chemicals Ltd Refinery
	C10	106	1283.29	30,000 tonnes /year	Arham - Ahmedabad Refinery
	C10 - Imported Repack	119.75	1449.76	30,000 tonnes /year	Bhiwandi Warehouse
Andhra Petrochemicals	Octanol	120	1452.78	70,000 tonnes/year	Vishakhapatnam
	N-Butanol	95	1150.12	30,000 tonnes/year	Vishakhapatnam
	Iso-Butanol	92	1113.8	4000 tonnes/year	Vishakhapatnam
GACL	Soda Ash light	NA	Not Available		
GNFC	Acetic Acid	45	544.79	160,000 tonnes/year	Bharuch
	TDI Drum	248	3002.42	67000 tonnes/year	Bharuch
	Aniline Oil	144	1743.34		Bharuch
MDC	Grasim	NA	Not Available	33000 tonnes/year	Nagda, Madhya Pradesh
	Meghmani	43.75	529.66	397500 kg/month	Ankleshwar, Gujarat
	Rayalseema	49	593.22	40 tonnes/month	Bharuch, Gujarat
	GFL	NA	Not Available	NA	Bharuch, Gujarat
Ethyl Acetate	GNFC	83	1004.84	50000 tonnes/year	Bharuch, Gujarat
	Accord	NA	Not Available		
	Satyam	82	992.74	50 tonnes/day	Nevasa, Maharashtra
	Somaiya	NA	Not Available	400ltr/day	Ahmednagar, Maharashtra
	Jubilant	83	1004.84	280 tonnes/day	Gajraula, U.P
	Laxmi	83	1004.84	100000 tonnes/annum	Mahad, Maharashtra





BPCL	Benzene	76.8	929.78	90,000 tonnes/year, Mumbai Refinery,	87000 tonnes/year, Kochi
	Toluene	81	980.63	16,000 tonnes/year	Kochi Refinery
	Hexane(kl)	89.8	1087.17	35,000 tonnes/year, Kochi	Mumbai Refinery
	Hexane(MT)	135.2	1636.8	35,000 tonnes/year, Kochi	Mumbai Refinery
	MTO(kl)	103.5	1253.03	19,000 tonnes/year	Mumbai Refinery
	Paraffin Wax	102	1234.87		
	Sulphur(Mol-ten)	16.06	194.43	19,000 tonnes/year	Kochi Refinery
	Acrylic Acid (Bulk)	118	1428.57	47000 tonnes/year	Kochi Refinery
	Acrylic Acid (Packed)	127	1537.53		Kochi Refinery
	2-Ethyl Hexanol (B)	124	1501.21	47000 tonnes/year	Kochi Refinery
	2-Ethyl Hexanol (P)	134.5	1628.33		Kochi Refinery
	N-Butanol(B)	98	1186.44	38000 tonnes/year	Kochi Refinery
	N-Butanol(B)	98.5	1192.49		Kandla Installation
	N-Butanol(P)	109	1319.61		Kochi Refinery
	Iso-Butanol(B)	94	1138.01	7000 tonnes/year	Kochi Refinery
	Iso-Butanol(P)	105	1271.19		Kochi Refinery
	Butyl Acrylate (B)	130	1573.85	180000 tonnes/year	Kochi Refinery
	Butyl Acrylate (B)	132	1598.06		Kandla Installation
	Butyl Acrylate (P)	140	1694.92		
	2-Ethyl Hexyl Acrylate(B)	148	1791.77	10000 tonnes/year	Kochi Refinery
	2-Ethyl Hexyl Acrylate(P)	158	1912.83		Kochi Refinery
GSFC	Cyclohexane	100.5	1216.71	NA	Gujarat
	Cyclhexanone	NA	Not Available	NA	Gujarat



Caustic Soda Lye	Meghmani	39	472.15	400000 tonnes/annum	Bharuch, Gujarat
	DCM	NA	Not Available	35000 tonnes/annum	Bharuch, Gujarat
	GACL	NA	Not Available		
	GFL	NA	Not Available	110000 tonnes/annum	Dahej, Gujarat
	RIL	38.75	469.13	69500 tonnes/annum	Kurnool Distric, Andhra Pradesh
Note-Above prices have been collected from experts and experienced outsources of the industry. Kindly verify from your end as well. Above prices are Exclusive of GST					

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## New Chemical Products Listed on Chemical Market Leads Platform

### ANILINE / AMINO BENZENE / 62-53-3



**CAS-Number :-** 62-53-3

**Molecular Formula :-** C<sub>6</sub>H<sub>5</sub>NH<sub>2</sub>

**Molecular Weight :-** 93.13 mol/g

**Available Qty :-** Kgs

**Package Size :-** 215kg\*80drums PER 1\*20FCL **Price :-** Available on Request

**Markets :-** Pharmaceuticals & API | Intermediates | Dyes and Pigments | Pharmaceutical Intermediates

**Description: Form: liquid Color:** oily flammable liquid Aniline is one of the most important intermediates in the dye industry, and it is also the main raw material for medicine, rubber accelerators, and anti-aging agents. It can also be used to make spices, varnishes, and explosives. Aniline is used in the manufacture of dyes, pharmaceuticals, resins, varnishes, perfumes, vulcanized rubber and even solvents.

### Dichloromethane / Methylene chloride / 75-09-2



**CAS-Number :-** 75-09-2

**Molecular Formula :-** CH<sub>2</sub>Cl<sub>2</sub>

**Molecular Weight :-** 84.93 mol/g

**Available Qty :-** Kgs

**Package Size :-** 250kg/drum

**Price :-** Available on Request

**Markets :-** Pharmaceuticals & API | Intermediates | Dyes and Pigments | Pharmaceutical Intermediates |

**Description :** Form: Liquid Color: clear Density: 1.3266 (20/4°C). Melting point: -95.1°C. Boiling point: 40°C Refractive index: n<sub>D</sub> (20°C) 1.4244 Dichloromethane is also used as a refrigerant in industrial refrigeration systems, but it is very harmful and can produce highly toxic phosgene when it comes into contact with open flames or hot objects.



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development already today, will be possible for product development in the future. Combining human

intelligence with machine learning will enable us to get to the successful recipes with much less iterations

and therefore much shorter development times for our customers.”

Source : Chemical Market

## Oeko-Tex® Organic Cotton The New Industry Standard For Organic Cotton

**B**ÖNNIGHEIM (aba) From April 2023, OEKO-TEX® will officially launch its new ORGANIC COTTON label. Two initial pilot customers have already been successfully certified by the testing service provider Hohenstein: the Indian textile supplier Milan Group and the Turkish cotton producer Akasya.

The new organic label ensures that all requirements for labeling as organic cotton are met. In addition to testing in accordance with OEKO-TEX® STANDARD 100, it ensures that the cotton contains less than ten percent genetically modified material, complies with pesticide limits and guarantees its organic origin.

Textile companies whose products have been certified with the OEKO-TEX® STANDARD 100 can now have their certificates extended to an ORGANIC COTTON certificate after ensuring ecological production.

"A combination with OEKO-TEX®

MADE IN GREEN is ideal," explains Ivonne Schramm, Head of OEKO-TEX® at Hohenstein. "This ensures environmental friendliness, transparency and socially responsible conditions in a single certification."

The certificate can be used for ready-made articles (e.g. T-shirt, bedspread, etc.) as well as for textile intermediate products (e.g. intermediate products such as raw fibers, yarns, etc.). Mixtures of organic and conventional cultivation are not permitted.

"We are proud to extend our range of sustainability certifications with ORGANIC COTTON" emphasizes Mohammed Hasnain Narsinh, Managing Director of Milan Group India, "and thus be part of OEKO-TEX®'s innova-

tive program."

**Tolga Uskuc, company owner of cotton producer**

**Akasya notes an increasing demand for sustainably produced organic cotton: "The demand for organic cotton in the**

**textile industry and among consumers is growing steadily, and with certification we have clear proof of the origin of our product."**

Source : Chemical Market



## Naturally Effective from Clariant

**How small family farms in the Amazon region supply Clariant with unique ingredients for cosmetics and why it matters so much.**

**M**UTTENZ, January 25, 2023 - Tomé Açú is sometimes called terra da pimenta - land of pepper. That is because the municipality in Brazil's

northern state of Pará has a long tradition growing black peppercorn. But when Julie Droux, a French biotech engineer working for Clariant, recently





visited the region, she was interested in a different crop. Cupuaçu is an indigenous fruit found throughout the Amazon basin. The plant is closely related to cacao and is particularly popular in Brazil, where it is mainly cultivated for its silky pulp to use in drinks, sweets, and even ice cream. "Cupuaçu is one of the many natural riches found particularly in this region," explains Droux. "More importantly, its production here in Tomé Açu is a prime example of sustainable sourcing practices."

### Rich in oleic and stearic acids

Droux works out of Toulouse, France, as a senior technical marketing specialist for Clariant's Personal Care Ingredients business—specifically for its Actives & Natural Origins portfolio. Cupuaçu butter, extracted from the fruit's seed, is especially rich in oleic and stearic acids. That is why Clariant uses it as a moisturizer and emollient for skin and hair care products. The company has been sourcing cupuaçu butter from Brazil for years, ever since it partnered with Beraca, a Brazilian cosmetics firm specializing in natural ingredients from this biodiverse region. When Clariant fully acquired Beraca in 2021, it took on Beraca's business and carried on the company's commitment to ethical sourcing. "I came here to learn about the cupuaçu plant itself, and especially about the communities that cultivate it," Droux explains.

Julie Droux met with two of her Brazilian colleagues, Juliane Khenafes and Adriana André, at Clariant's Brazilian head office in São Paulo and then traveled to Tomé Açu—roughly 1,600 miles due north. There, the trio met up with Clariant's team in charge of community outreach and local collaboration. "They spend about half of their time out in the field talking to farmers," says Adriana André, a sustainability analyst for Clar-

iant in Brazil. "This involvement is essential. It is how we maintain good field practices in our raw material supply chain."

### A much more natural and sustainable ecosystem

There are currently around 50 smallholders involved in growing cupuaçu for Clariant. They are organized as a local cooperative and practice what is called agroforestry. This type of land management involves growing a diverse range of crops, including cupuaçu, cocoa, and açai. Raising such a mix of small plants, shrubs, and even trees forms a much more natural and sustainable ecosystem than monocultures. Plus, as Julie Droux learned, these holdings yield different crops throughout the year, which improves financial stability for the farmers. Native cupuaçu trees lend themselves exceptionally well to this method of farming. They cope well with the



notoriously poor soil in the region and provide the perfect amount of shade for some of the other crops.

However, harvesting cupuaçu requires a lot of manual labor. Because it is hard to determine whether the large brown fruits are ripe, they are usually gathered from the ground once they have fallen off their branches. The fruits are then washed and cracked open by hand to scoop out the pulp and seeds. The pulp is separated from the seeds and sold as a puree or a dried powder all over Brazil. "Cupuaçu is especially popular as a refreshing drink. Some describe the taste as a mix between cocoa and pineapple. It is a local staple in school cafeterias," says Juliane Khenafes, responsible for Regulatory Affairs & Sustainability at Beraca.

### An additional source of income

The cupuaçu seeds, however, tended to

have little value. So up until the mid-2000s, most farmers in Tomé Açu discarded them. That all changed when Beraca started buying cupuaçu seeds to extract their butter as an active ingredient in cosmetics. "By buying up the seeds, we now provide an additional source of income to these communities," explains Adriana André. This was especially important during the pandemic when demand for cupuaçu pulp plummeted as restaurants, cafés, and school cafeterias stayed closed. Selling seeds to Clariant helped many to bridge that gap.

Clariant uses a metric called biocorrelation to assess the positive impact every kilogram of cupuaçu butter has on family income. "By processing the fruit pulp on machines owned by the cooperative, our local farming communities can retain even more of the economic value," says Adriana André. "But our impact goes beyond cash." As part of Clariant's close collaboration, its local teams constantly share knowledge on sustainable farming and provide training to farmers on good management practices and finance.

### Passionate about their sustainable way of farming

While touring farms and processing plants in Tomé Açu, Julie Droux got to visit the cooperative and meet some of the families. "Naturally, I also had to taste fresh cupuaçu juice," she says. "Sweet and tangy—unlike anything I've ever tasted. What struck her most, however, was the passion the locals have for their sustainable way of farming. "They've all seen what monocultures and industrial agriculture can do to their homeland," Droux says. "Being able not just to live off the land but to actually prosper in harmony with their natural environment means a lot."

Back in the lab in Toulouse, working with formulations based on cupuaçu, Droux still thinks about the effect Clariant has half a world away. "As scientists,



we tend to focus on the immediate effects and benefits of our actives," she says. Clinical studies have shown that cupuaçu butter helps strengthen the natural skin barrier. It helps to improve elasticity, to provide long-lasting moisturization, and to reduce trans-epidermal water loss." This is something we can show in the lab, and customers can feel on their skin," Droux says. "But I'm proud that we at Clariant also contribute to the social and ecologic effect this

product has at its source."

#### What makes this chemistry greater?

- Cupuaçu butter helps strengthen the natural skin barrier, helps to improve elasticity, to provide long-lasting moisturization, and to reduce trans-epidermal water loss.
- By buying up cupuaçu seeds, which used to be discarded, Clariant pro-

vides an additional source of income to around 50 smallholders.

- The local Clariant teams share knowledge on sustainable farming and provide training to farmers on good management practices and finance.

Source : Chemical Market

## Sweeny Refinery Certified to Process Pyrolysis Oil from Waste Plastics

Phillips 66 has received International Sustainability and Carbon Certification (ISCC) PLUS certification for its Sweeny Refinery in Texas to process oil made from waste plastics into feedstocks for new plastics.

**"Phillips 66 is committed to keeping plastics out of the environment and driving toward a more circular economy where plastics packaging is reused, recycled or recovered," said Zhanna Golodryga, Executive Vice President of Emerging Energy and Sustainability at Phillips 66. "The ISCC PLUS certification highlights the company's resolve to create sustainable streams for waste materials**



#### **and to support the growth of advanced recycling in plastics."**

The ISCC PLUS certification verifies the refinery meets the standards to process pyrolysis oil made from hard-to-recycle waste plastics into circular ethane, circular propane, circular propylene

and other sustainable feedstocks and petrochemical building blocks. The products will

be used to support polymer producers — including Chevron Phillips Chemical Company LLC, Phillips 66's 50-50 joint venture — that are advancing a circular economy for plastics.

**Pyrolysis oil is a substance, with properties similar to crude oil, that is generated through pyrolysis, where heat is used to break waste materials into their chem-**

**ical components. It can be generated from a range of waste materials, including plastic, tires and biomass, that is subsequently refined to upgradable starting materials. The pyrolysis oil processed by Phillips 66 will be provided by third parties.**

ISCC is a globally applicable and industry recognized sustainability certification system that covers sustainable feedstocks, including circular feedstocks produced from plastic waste. Its ISCC PLUS certificate covers bio-based and recycled, or circular, raw materials.

Sweeny Refinery, which is located in Old Ocean, Texas, on the Gulf Coast, is the second Phillips 66 refinery to achieve an ISCC PLUS certification and the first for the processing of waste plastic pyrolysis oil into circular feedstocks. Its Humber Refinery in the U.K. is ISCC PLUS certified to process used cooking oil, food waste and other circular feedstocks.

Source : Philips 66





# GO-Coating – One of The World's First Chromium-Free Coatings by Rembrandtin



Chromium trioxide derivatives are classified as CMR substances and the unrestricted use of these substances in the European Union expired in 2017. Although the European Commission issued an authorization for further use, the ultimate deadline will be September 2024. This extensive ban on the use of chromium trioxide derivatives affects many industrial sectors and consequently also the transformers production. Therefore, a change to chromium-free solutions is crucial.

Since chromates are hardly replaceable due to their excellent hydrolysis and corrosion resistance as well as their good electro-insulating properties, the aim was to develop equivalent solu-

tions. After working intensively on the innovation, the R&D specialists at Rembrandtin developed a chromium-free coating system REMISOL EB 5320 - the first chromium-free coating on the market.

**The hydrolysis and corrosion resistance of this new eco-friendly product is also equivalent to chromium(VI)-based coatings. It's an inorganic coating of class C5-G according to ASTM 976 and serves as electrical insulation for**

**grain-oriented steel. This one-component system is available as a clear or pigmented version. With this type of pigmentation, it is possible to achieve the homogeneous appearance of the coated electrical steel desired by many steel manufacturers. This innovative solution is long-lasting without any loss of quality over the months and it is suitable as a more environ-**



## mentally friendly alternative.

The aim is to contribute to a greener

planet, and with the development of this advanced and ecofriendly coating system, KANSAI HELIOS is making an

invaluable contribution that many generations will be able to benefit from.

Source : Kansai Paint

## Axalta's Sustainable Electrocoat (E-Coat) Technology Wins 2023 BIG Innovation Award

GLEN MILLS, Pa., Jan. 11, 2023 (GLOBE NEWSWIRE) -- Axalta Coating Systems (NYSE: AXTA), a leading global coatings company, today announced that its AquaEC® Flex Broad Bake Electrocoat won a 2023 BIG Innovation Award presented by the Business Intelligence Group (BIG). The annual business awards program recognizes organizations, products and people that bring new ideas to life in innovative ways.



***“Axalta is proud to receive this award that further demonstrates our ongoing product innovation and performance,” said Robert Roop, Axalta’s Chief Technology Officer. “We are constantly innovating for our customers. The increased demand for electric vehicles drove the need for a more sustainable e-coat that applies with uniform thickness over complex vehicle designs while maintaining manufacturing productivity. Our innovation ensures that critical parts that carry and protect battery packs are heat-cured with the rest of the body frame, enabling automakers to co-produce electric vehicles and internal combustion vehicles on the same manufacturing line.”***

In addition to advanced curing properties, AquaEC® Flex enables enhanced appearance, better edge-corrosion pro-

tection and increased flexibility which allows the coating to provide outstanding protection in complex electric vehicle body frame designs which are exposed to temperature and humidity variations during the vehicle’s battery life. It also provides potential energy saving on standard combustion engine cars, as well. This latest e-coat built with new generation chemistry offers several sustainability advantages compared to previous generation technology, including 60% lower VOC emissions and 15% less energy use. Axalta is one of the largest e-coat manufacturers in the world, serving most major light vehicle and commercial vehicle original equipment manufacturers, and a wide range of general industrial customers.

Axalta and other organizations from across the globe submitted their recent innovations for consideration in the BIG Innovation Awards. Nominations were judged by a select group of business leaders and executives who volunteered their time and expertise to score submissions.

Source : Axalta

***“Innovation is business critical to today’s society,” said Maria Jimenez, Chief Operating Officer at the Business Intelligence Group. “We are thrilled to be honoring Axalta as they are leading by example and improving the lives of so many.”***





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