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DYES & CHEMICAL MARKET

Connecting the Chemical Industry Together !

A MONTHLY MAGAZINE DEVOTED TO

DYES CHEMICALS PHARMACEUTICALS API TEXTILE AUXILIARIES PAINTS SOLVENTS COSMETICS

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No	**Exibitions**	**Date**	**Place**
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2	CPhI Barcelona	Oct 24-26, 2023	Fira Barcelona Gran Via, Spain
3	CPhI Middle East & Africa	TBC	Riyadh, Saudi Arabia
4	CPhI China- Virtual CPhI	June 19-21, 2024	Shanghai, China
5	CPhI Japan	Apr 17-19, 2024	Tokyo, Japan
6	CPhI Korea	Aug 27 - 29, 2024	COEX, Seoul, Korea
7	CPhI India	Nov 28-30, 2023	Noida, India
MECS (Coating Show)			
1	Asia Pacific Coatings Show	Sept 11-13, 2024	Indonesia
2	Saudi Arabia Coatings Show	2025	Dammam Saudi Arabia
3	Middle East Coatings Show	April 16-18, 2024	Dubai World Trade Centre
4	Coatings For Africa 2024	June 19-21, 2024	Johannesburg, South Africa
DYE+CHEM			
1	Dye+Chem Morocco International Expo	TBD	Morocco
2	Dye+Chem Sri Lanka International Expo	TBD	Colombo Sri Lanka
3	Dye+Chem Bangladesh International Expo	TBD	Bangladesh
4	Dye+Chem Brazil International Expo	TBD	Brazil
Red Carpet Events			
1	5th Bangladesh Int'l Dyes, Pigments and Chemicals Expo	Oct 26-28, 2023	Dhaka, Bangladesh
Turkey (Arkim Group)			
1	InterDye Textile Printing Eurasia	Nov 27-29 2024	Istanbul, Turkey
2	Paint Istanbul TURKCOAT	May 8-10, 2024	Istanbul
3	Paint Expo Eurosia	Apr 09-12, 2024	Messe Karlsruhe
Other Exhibitions			
1	Paint India	Feb 22-24, 2024	Bombay Exhibition Centre, Mumbai
2	Expo Paint and Coating	Jan 17-19, 2024	Dhaka, Bangladesh
3	CIPI	TBD	Mumbai, India
4	Chemspec Europe	June 19-20, 2024	Germany
5	ChemUK Expo	May 15-16, 2024	NEC, Birmingham, UK
6	American Coatings Show	April 30-2 May 2024	Indianapolis
7	China Coat China	Dec 2024	China Import and Export Fair Complex, Guangzhou
8	Interdye China	Apr 17-19, 2024	Shanghai, China
9	Paint Expo Germany	Apr 09-12, 2024	Messe Karlsruhe Germany
10	India Chem 2024	Apr-18-19 2024	Mumbai Exibition Centre, India
11	Water Expo 2024	Sept 10-12 2024	New Delhi
12	Inacoating 2024	July 30-Aug 1, 2024	JlExpo Kemayoran, Jakarta - Indonesia

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- Copper magnesium Dioxide - By Product
- Copper Ash - By Product

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CHEMICAL MARKET
Connecting the Chemical Industry Together !

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2.	Adamantanamine hydrochloride	CAS RN. 665-66-7	9.	Chlorinated Paraffin-52	CAS NO. 106232-86-4
3.	Benzoyl chloride	CAS RN. 98-88-4	10.	Chlorinated Paraffin-70	CAS RN.106232-86-4
4.	Benzotrichloride	CAS RN.98-07-7	11.	Sodium hypochlorite	CAS RN.7681-52-9
5	Chloroethylene carbonate	CAS RN.3967-54-2	12.	Methyl methacrylate	CAS RN.80-62-6
6.	Dichloromethane	CAS RN. 75-09-2	13.	Methacrylic acid	CAS RN.79-49-4
7.	Aniline	CAS RN.62-53-3	14.	Diethyl oxalate	CAS RN.95-92-1

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CHEMICAL MARKET

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

Sustainable Growth and its pillars

On November 14th 2023, a Memorandum of Understanding (MOU) was signed between India and US for "Enhancing Innovation Ecosystems through an Innovation Handshake" in San Francisco. The MoU was signed between India's Minister of Commerce & Industry and the US counterpart Gina Raimondo, Secretary of Commerce.

At the event, co-hosted by the US-India Business Council (USIBC) and the Confederation of Indian Industry (CII) and supported by National Association of Software and Service Companies (NASSCOM) and Startup India, CEOs from major ICT companies, executives from venture capital firms, and founders of startups in the critical and emerging technology space discussed how to enhance US-India technology collaboration.

On the other hand, Trade ministers from 14 countries are poised to announce a significant development in the Indo-Pacific Economic Framework (IPEF) as they finalize agreements on two additional pillars - clean energy & infrastructure and tax & anti-corruption. The signing of an agreement on resilient supply chains is also anticipated later this week. The move reflects a strategic alliance aimed at strengthening diplomatic and economic ties while reducing dependence on China in the post-COVID era.

The way India is striving to reach a pinnacle is laudable. There are several areas of development going on from Infrastructure development including roads, rails, sea and air.

Roads: About 700k km of rural roads have been constructed and the target is to build another 50k km by 2030. A record of average 45km of highways daily in 2023-24 is being built. Highways/roads of 10,300 km were constructed in 2022-23. FY 2020-21 saw the maximum growth when 13,300 km constructed.

Railways: India is on track to have 1.2lakh km of railway lines by 2025. According to a regulatory filing, the Container Corporation of India reported a 26.13 percent year-on-year growth in domestic volumes at 2.61 TEUs (twenty feet equivalent) for the quarter ended September FY 2024. For the same period, EXIM volumes grew by 3.50 percent to 9.69 TEUs. Total volumes grew 7.59 percent YoY to 12.3 TEUs during the quarter.

Sea: There has been increase in the cargo and container market as India is in the expansion phase of e-commerce industry, digitization in container shipping and rising demand for specialized containers. Moreover, an increase in demand of commodities and rapid urbanization are expected to fuel the market growth.

Air: The January 2022 takeover of Air India by Tata, in response to a government divestment programme, proved a "watershed moment" for the Indian aviation industry, sparking a flurry of large-scale aircraft orders. The expected capacity influx included some 470 aircraft from Airbus and Boeing by Air India and 500 from Airbus by its peer, IndiGo.

Infrastructure serves as the foundational backbone of any economy, providing the essential framework for sustained growth and development. It encompasses a diverse range of critical systems, including transportation networks, energy supply, communication channels and public facilities

According to Cushman and Wakefield's latest report, the country's logistics and industrial markets attracted global funds and investments worth 8,257 crores in 2022. With massive investments by central and state governments and by private players in advanced technologies such as Artificial Intelligence, Machine Learning, Block Chain, Robotics and Automation, Internet of Things (IoT), and Data Science and in developing world class logistics infrastructure, dedicated freight corridors, Multimodal Logistic Parks (MMLPs), national highways, building more regional cargo complexes/terminals, improving multimodal connectivity, Indian airlines increasing capacity and expanding dedicated freighter fleet, to improve supply chain efficiency and enable seamless cargo operations, the logistics industry is expected to grow five folds by 2050.

-Rajiv Parikh

MUMBAI PRICE TREND – 14.11.2023	
Organic & Inorganic Chemicals	Price (Rs/Kg)
PMA	114+
SOLVENT C9 -BARRELS	107+
TOLUENE - BARRELS	92+
NBA - BARRELS	98+
EDC	45+
NPA	116+
CL	37+
MDI	18+
PHOESPHORIC ACID	98+
MEALIC ANHYDRIDE	85+
NIETRO BENZENE	100+
DMF	88+
ACITIC ACID	45+
MEK	117+
CYCLO	144*+
ETHYLE ACETATE	85+
FORMAL	19+
BUTYL ACETATE	107+
CAUSTIC POTASH	113+
ALPHOX	161+
TE4	98+
POTASSIUM CARBONATE	128
ACRYLIC ACID	96+
EAM	138+
DCDA	160+
P. G	131+
IPA	94+
ACETONE	87+
MIX XYLEN	95*+
O. XYLENE	103+
BENZENE	82+
MEG	54+
DEG	85+
GLYCERINE	65+
SORBITOL	47.50
SODA ASH	1715+
SMBS	37+
SBC	1940+
METHANOL	31.50+
MIBK	175+
MCB	76+
ODCB	91+

Above prices are given in good faith by : **MR. HITESH C. GOSALIA**

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CHENNAI PRICE TREND – 14.11.2023

Inorganic Chemicals	No of Units Per Pack	Price (Rs/Kg)
Acid Slurry (Soft)	50 Kgs	125.00
Alum- Ferric	50 Kgs	22.00
Ammonium Bicarbonate	25 Kgs	25.00
Ammonium Bi Fluoride [sugar-grade]	50 Kgs	178.00
Ammonium Carbonate	50 Kgs	90.00
Ammonium Chloride	50 Kgs	35.00
Ammonium Nitrate	50 Kgs	30.00
Ammonium Phosphate (Mono)	50 Kgs	135.00
Ammonium Sulphate	50 Kgs	22.00
Antimony Trioxide	50 Kgs	1050.00
Barium Chloride	50 Kgs	58.00
Bleaching Powder (33% Cl)	25 Kgs	14.00
Borax (Granular)	50 Kgs	72.00
Boric Acid (Tech.)	50 Kgs	108.00
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	100.00
Caustic Soda (Flakes)	25 Kgs	43.00
Caustic Soda (Prills)	50 Kgs	98.00
Chromic Acid Flakes	50 Kgs	320.00
Chlorinated Xylene	25 Kgs	85.00
Copper Sulphate	180 Kgs	220.00
Di ammonium Phosphate	50 Kgs	34.00
Dioctylmalite	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	34.00
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	650.00
Phosphoric Acid (85% Tech)	50 Kgs	105.00
Potassium Carbonate (Powder)	25 Kgs	178.00
Potassium Carbonate (Granules)	25 Kgs	100.00
Potassium Nitrate	50 Kgs	150.00
Potassium Permanganate [Tech]	50 Kgs	200.00
Potassium Permanganate [Pure]	50 Kgs	220.00
Potassium Phosphate (Di)	50 Kgs	158.00
S.L.E.S	50 Kgs	55.00
Soda Ash Light	50 Kgs	3400.00
Sodium Bicarbonate	50 Kgs	33.00
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	63.00
Sodium Hexameta Phosphate 68%	50 Kgs	148.00
Sodium Hydrosulphite [China]	50 Kgs	180.00
Sodium Metabisulphite	50 Kgs	45.00
Sodium Nitrate	50 Kgs	88.00
Sodium Nitrite (China)	50 Kgs	85.00
Sodium Silicate	Noted	28.50
Sodium Sulphate (Anhydrous)	50 Kgs	16.00
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	195.00
Titanium Dioxide (Rutile - R-902)	25 Kgs	256.00
Trisodium Phosphate	50 Kgs	42.00
Zinc Chloride Powder (Tech.)	50 Kgs	80.00
Zinc Oxide White Seal	50 Kgs	235.00
Zinc Stearate [Pure]	25 Kgs	195.00
Zinc Sulphate (Tech.)	50 Kgs	58.00
Organic Chemicals	**No of Units Per Pack**	**Price (Rs/Kg)**
Acetic Acid Glacial	35 Kgs	61.00
Acetone	160 Kgs	85.00
Benzene	196 Ltrs.	92.00
Benzyl Alcohol	200 Kgs	200.00
Bisphenol-A (Russian)	25 Kgs	180.00
Bisphenol-A (Russian)	170 Kgs	197.00
n-Butyl Acetate	165 Kgs	120.00
Butyl Cellosolve	195 Kgs	120.00
Camphor	25 Kgs	500.00
Cellosolve –Ethyl	195 Kgs	160.00
Chloroform	300 Kgs	44.00
Citric Acid (Anhy)	25 Kgs	90.00
Citric Acid (Mono)	25 Kgs	70.00
Cresote Oil	50 Kgs	64.00
Cyclohexanone	190 Kgs	142.00
D D Turpentine	200 Ltrs.	145.00
Diacetone Alcohol	195 Kgs	135.00
Diethylene Glycol	230 Kgs	85.00
Dimethyl Formamide	195 Kgs	105.00
Dioctyl Phthalate	200 Kgs	140.00
Di-Pentene	200 Kgs	92.00

EDTA Acid	25 Kgs	288.00
EDTA Disodium	25 Kgs	248.00
EDTA Tetrasodium	25 Kgs	248.00
Ethyl Acetate	185 kgs	96.00
Ethylene Dichloride	200 Kgs	54.00
Ethylene Glycol-mono	230 Kgs	63.00
Formaldehyde	65 Kgs	26.00
Formic Acid	35 Kgs	65.00
Formic Acid	250 Kgs	63.00
Hexamine – Tech	50 Kgs	100.00
n-Hexane	160 Litrs	68.00
Hydroquinone (Imported)	25 Kgs	850.00
Isopropyl Alcohol	160 Kgs	124.00
Isopropyl Alcohol (Refill)	160 Kgs	104.00
Maleic Anhydride	25 Kgs	120.00
Methyl Ethyl Ketone	166 Kgs	120.00
Methyl Isobutyl Ketone	160 Kgs	180.00
Methyl Isobutyl Ketone (Refill)	160 Kgs	170.00
Methylene Dichloride	250 Kgs	52.00
Methylene Dichloride (Refill)	250 Kgs	42.00
Mineral Turpentine Oil	50 Kgs	120.00
Monochloro Phenol	50 Kgs	120.00
Nitrobenzene	200 Kgs	116.00
Octanol (2-ethylhexanol)	160 Kgs	130.00
Oleic Acid	50 Kgs	140.00
Oxalic Acid (Punjab)	50 Kgs	65.00

Paraffin Wax (White)	50 Kgs	125.00
Para formaldehyde 91%	25 Kgs	100.00
Perchloroethylene	320 Kgs	120.00
Phenyl Liquid	230 Kgs	105.00
Phthalic anhydride	25 Kgs	115.00
Pine Oil 22%	200 Litrs	110.00
Pine Oil 40%	200 Litrs	190.00
Polyethelene Glycol 400	230 Kgs	118.00
Polyethelene Glycol 600	230 Kgs	140.00
Propylene Glycol	215 Kgs	128.00
Poly Aluminium Chloride	25 Kgs	34.00
Red Lead	50 Kgs	220.00
Renine	180 Kgs	72.00
Rosin	17 Kgs	115.00
Sodium Acetate	50 Kgs	34.00
Sodium Benzoate	50 Kgs	105.00
Sorbitol	250 Kgs	52.00
Stearic Acid (cosmetic)	50 Kgs	125.00
Styrene Monomer	185 Kgs	115.00
Terpeneol Perfumery	25 Litrs	260.00
Thiourea	25 Kgs	400.00
Toluene	200 Ltrs	96.00
Trichloroethylene	280 Kgs	120.00
Triethanolamine	210 Kgs	125.00
Vinyl Acetate Monomer	185 Kgs	105.00
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O-Xylene	185 Kgs	120.00

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Product Name	Qty	Grade
Perfume	10 Kgs	Industrial
Dye	10 Ltrs	Industrial
Optical Brightener	10 Kgs	Industrial
Enzyme	10 Ltrs	Industrial
Mikon ATC - activator this is a brand name	10 Kgs	Industrial
Bavhibit AM	10 Kgs	Industrial
Na4EDTA	10 Kgs	Industrial
PBS4 -sodium perborate tetra	10 Kgs	Industrial
Citric Acid	10 Kgs	Industrial
SMF / 3	10 Ltrs	Industrial
Teric GN9	10 Ltrs	Industrial
LABS powder	10 Ltrs	Industrial
STP	10 Ltrs	Industrial
Soda Ash	10 Kgs	Industrial
Sodium Sulphate	10 Kgs	Industrial
Details : quote the best price with lead time COA & MSDS		

Product Name	Qty	Grade
H.D.P.E. BEND 160 MM (6") PRESSURE - 6 KGS AS PER MAKE JAIN /KOTHARI	3 Nos	None
H.D.P.E. TAIL PIECE LONG 160 MM (6") PRESSURE - 6 KGS MAKE JAIN /KOTHARI	8 Nos	None
H.D.P.E. PIPE 160 MM (6") PRESSURE - 6 KGS AS PER MAKE JAIN /KOTHARI	24 Mtrs	None
H.D.P.E. ELBOW 200 NB PRESSURE - 6 KGS, AS PER 3 NOS	3 Nos	None
H.D.P.E. LONG STUB END 200 NB PRESSURE - 6 KGS AS PER IS:4984:1995 MAKE KOTHARI	10 Nos	None
H.D.P.E. PIPE 200 NB PRESSURE - 6 KGS, GRADE - PE-100 AS PER IS:4984:1995 Make KOTHARI	54 Mtrs	None
Details : Please quote the best price with lead time		

Product Name	Qty	Grade
Cyclohexyl Chloride	3000 Kgs	Industrial
Details : Please quote the best price with lead time COA & MSDS		

Product Name	Qty	Grade
DEFOAMER // 126-86-3 // 38111900 // LL 9900	1 Tonnes	Chemical
Details : Leads for : LUBRICANTS ADDITIVES		

Product Name	Qty	Grade
CORRIUM Z-199	2	Industrial
Details : Please quote the best price with lead time & COA.		

Product Name	Qty	Grade
Mineral Hydrocarbon Oil	500 Tonnes	Industrial
Details : Parameters Required 0.810 to 0.820 Density 30 to 40 Flash		

Product Name	Qty	Grade
Allyl Chloride 99% // 107-05-1 // A43930	1 Can	Virgin-Pure
Details : We need the material		

Product Name	Qty	Grade
Aminomethane CAS#:- 77-86-1	4 Tones	None
Details : Pharma application		

Product Name	Qty	Grade
TALL OIL	1 Tones	Industrial
Details : Please inform best price, also please share it's GC & lab analysis report & it's COA.		

Product Name	Qty	Grade
Methacryloyl Chloride CAS# :- 920-46-7	500 Kgs	Industrial
Details : Please share your best offer on basis FOR Ahmedabad along with the COA, delivery time, packing detail and payment terms.		

Product Name	Qty	Grade
Methacryloyl Chloride CAS# :- 920-46-7	500 Kgs	Industrial
Details : Please share your best offer on basis FOR Ahmedabad along with the COA, delivery time, packing detail and payment terms.		

Product Name	Qty	Grade
Succinic Acid 99%-food grade chemical	80 Kgs	Industrial
Details : Food Grade Chemical		

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Product Name	Qty	Grade
Soda Ash	5000 Kgs	Any
Details : Please quote the best price with lead time & COA		

Product Name	Qty	Grade
Cyclopentyl Chloride Cas no: 930-28-9	5000 Kgs	Industrial
Details : Cyclopentyl Chloride Cas no: 930-28-9		

Product Name	Qty	Grade
Sodium Nitrate (By-Product)-60% Cas no: 7631-99-4	30 Tonnes	Industrial
Details : Please quote the best price with lead time & COA.		

Product Name	Qty	Grade
Sertraline IP grade Pigments Chemicals	5 Tonnes	Industrial
Details : IP Grade, Please quote the best price with lead time & COA.		

Product Name	Qty	Grade
Methacrylic Acid // 79-41-4	1 Drums	None
Details : Leads Fro : BHUMICHEM		

Product Name	Qty	Grade
Concentrated Nitric Acid 98% Cas no: 7697-37-2	10 Tonnes	Industrial
Details : Please quote the best price with lead time & COA.		

Product Name	Qty	Grade
Nitroethane Cas no: 79-24-3	100 Kgs	Industrial
Details : Please quote the best price with lead time & COA.		

Product Name	Qty	Grade
2-Bromo Benzoic Acid Cas no: 88-65-3	3 Tonnes	Industrial
Details : Regular every Month. Please quote the best price with lead time & COA.		

Product Name	Qty	Grade
Gemcitabine HCL IP Cas no: 122111-03-9	13 Kgs	Industrial
Details : quote the best price with lead time & COA.		

Product Name	Qty	Grade
DEFOAMER // 126-86-3 // 38111900 // LL 9900	1 Tonnes	Chemical
Details : Leads for : LUBRICANTS ADDITIVES		

Product Name	Qty	Grade
Ethyl 3-(2-(((4-cyanophenyl)amino)methyl)-1-methyl-N-(pyridin-2-yl)-1H-benzo[d]imidazole-6-carboxamido) propanoate CAS#:- 211915-84-3	5 Kgs	None
Details : Need this Dabigatran intermediate for trial purpose.		

Product Name	Qty	Grade
Bromoacetaldehyde Dimethyl Acetal CAS NO:- 7252-83-7	500 Kgs	Industrial
Details : We have the following requirement kindly send your best offer for the same with the lead time and specifications.		

Product Name	Qty	Grade
Allyl Chloride 99% // 107-05-1 // A43930	1 Can	Virgin-Pure
Details : We need the material		

Product Name	Qty	Grade
Aminomethane CAS#:- 77-86-1	4 Tones	None
Details : Pharma application		

Product Name	Qty	Grade
TALL OIL	1 Tones	Industrial
Details : Please inform best price, also please share it's GC & lab analysis report & it's COA.		

Product Name	Qty	Grade
Methacryloyl Chloride CAS# :- 920-46-7	500 Kgs	Industrial
Details : Please share your best offer on basis FOR Ahmedabad along with the COA, delivery time, packing detail and payment terms.		

Product Name	Qty	Grade
Methacryloyl Chloride CAS# :- 920-46-7	500 Kgs	Industrial
Details : Please share your best offer on basis FOR Ahmedabad along with the COA, delivery time, packing detail and payment terms.		

Product Name	Qty	Grade
Succinic Acid 99%-food grade chemical	80 Kgs	Industrial
Details : Food Grade Chemical		

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Product Name	Qty	Grade
Sodium Thiosulphate Powder	5 Kgs	Industrial
Details : Photo cleaning		

Product Name	Qty	Grade
Nateglinide API [ENA16381]	20 Kgs	Industrial
Paroxetine HCl Hemihydrate API	700 Kgs	Industrial
Flurbiprofen API	5 Tonnes	Industrial
Purified Water (Cas no:- 7732-18-5)	200 Ltrs	Industrial
Methanol (Cas no:- 67-56-1)	200 Ltrs	Industrial
HCL (Cas no:- 7647-01-0)	50 Ltrs	Industrial
Di-methyl Formmide (Cas no:- 68-12-2)	2 Kgs	Industrial
Copper(II) Acetate Mono Hydrate (Cas no:- 142-71-2)	5 Kgs	Industrial
Sodium Carbonate (Cas no:- 497-19-8)	25 Kgs	Industrial
Toluene (Cas no:- 108-8-3)	200 Ltrs	Industrial
2,3 Xylidine (Cas no:- 87-62-7)	25 Ltrs	Industrial
Ortho Chloro Benzonic Acid (Cas no:- 118-91-2)	50 Kgs	Industrial
Isopropyl Alcohol (Cas no:- 67-63-0)	200 Ltrs	Industrial
Dimethyl Sulphoxide (Cas no:- 67-68-5)	200 Lts	Indusr-trial
N-Methyl Piperazine (Cas no:- 109-01-3)	50 Ltrs	Industrial
Ofloxacin Q Acid (Cas no:- 82419-35-0)	50 Kgs	Industrial
Formic Acid (Cas no:- 64-18-6)	25 Kgs	Industrial
Formaldehyde (Cas no:- 50-00-0)	50 Ltrs	Industrial
Dichloromethane (Cas no:- 75-09-2)	200 Ltrs	Industrial
Sodium Borohydride (Cas no:- 16940-66-2)	25 Kgs	Industrial
Methane Sulfonyl Chloride (Cas no:- 124-63-0)	25 Ltrs	Industrial
Acetic Acid (Cas no:- 64-19-7)	50 Lts	Industrial
Hydroxylamine hydrochloride (Cas no:- 5470-11-1)	25 Kgs	Industrial
Erythromycin Base (Cas no:- 114-07-8)	25 Kgs	Industrial
Propionic Anhydride (Cas no:- 123-62-6)	25 Kgs	Industrial
Sodium Lauryl Sulphate (Cas no:- 151-21-3)	25 Kgs	Industrial
MDC (Cas no:- 75-09-2)	200 Kgs	Industrial
Stearic Acid (Cas no:- 822-16-2)	25 Kgs	Industrial
Acetone (Cas no:- 67-64-1)	200 Ltrs	Industrial
Ammonia (Cas no:- 7664-41-7)	50 Kgs	Industrial
Hyflow (Cas no:- 61790-53-2)	50 Kgs	Industrial
Activated Carbon (Cas no:- 7440-44-0)	25 Kgs	Industrial
Ethyl Succinyl Chloride (Cas no:- 14794-31-1)	25 Kgs	Industrial
Sodium Bicarbonate (Cas no:- 144-55-8)	25 Kgs	Industrial
Sodium Hydroxide (Cas no:- 1310-73-2)	25 Kgs	Industrial
Ethyl Acetate (Cas no:- 141-78-6)	200 Ltrs	Industrial
Erythromycin thiocynate (Cas no:- 231-723-1)	50 Kgs	Industrial
(4R)-3-[(25,5R)-5-(4-Fluorophenyl)-2-[(R)-[(4-fluorophenyl) amino] [4-[(trimethylsilyl)oxy]phenyl] methyl]-1-oxo-5-[(trimethylsilyl) oxy]pentyl]-4-phenyl-2- oxazolidinone (CAS NO:- 27277812-8)	500 Kgs	Industrial
(-)-1-[(4-Chlorophenyl)phenylmethyl]piperazine; (R)-1(p-Chlorobenzhydryl)piperazine (CAS NO:- 300543-56-0)	100 Gms	Industrial
2-[2-[4-[(R)-(4-Chlorophenyl) phenylmethyl]-1-piperazinyl] ethoxy]-acetamide (CAS NO:- 909779-33-5)	100 Gms	Industrial
Levocetirizine Dihydrochloride (CAS NO:- 130018-87-0)	100 Gms	Industrial
3-(Trifluoromethyl)-5,6,7,8-tetrahydro-triazolopyrazine Hydrochloride (CAS NO:- 762240-92-6)	2000 Kgs	Industrial
(3R)-N-(tert-Butoxycarbonyl)-3-amino-4-(2,4,5-trifluorophenyl) butanoic (CAS NO:- 486460-00-8)	2000 Kgs	Industrial
Carbonyl diimidazole (CAS NO:- 530-62-1)	2000 Kgs	Industrial
Details : Chemicals Required for Process development Lab Trials, More quantity required after test		

Product Name	Qty	Grade
Drums	2000 Drums	NA
Details : HDPE drums Capacity 200 ltr, 250 ltr, 300 ltr. Please reply at the earliest. Needed on recurring basis		

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Product Name	Qty	Grade
Bromoacetaldehyde Dimethyl Acetal CAS NO:- 7252-83-7	500 Kgs	Industrial
Details : We have the following requirement kindly send your best offer for the same with the lead time and specifications.		

Product Name	Qty	Grade
3-bromo-6-chloro-2-fluorobenzonitrile (CAS:- 943830-79-3)	1000 Kgs	Technical
Bicyclo[3.1.0]hexane-3-one (CAS:- 1755-04-0)	1000 Kgs	Technical
D-expoxone (CAS:- 18422-53-2)	1000 Kgs	Technical
3,5-Difluoroaniline (CAS:- 372-39-4)	1000 Kgs	Technical
Methyl piperidine-4-carboxylate (CAS:- 2971-79-1)	1000 Kgs	Technical
Details : Please Contact for more info		

Product Name	Qty	Grade
PyBOP (Cas no- 128625-52-5)	1 Tonnes	Industrial
Ethyl Pyruvate (Cas no:- 617-35-6)	1 Kgs	Industrial
Details : 1) We have a requirement of the below Chemical kindly quote your best. Pricing along With Recent batch COA and lead time. We need 100kg, 500kg & 1400kg. 2) We have a requirement of the below Chemical kindly quote your best pricing along With COA and lead time.		

Product Name	Qty	Grade
TRANS,TRANS-2,4-HEXADIENYL ACETATE (Cas no:- 1516-17-2) (Hs Code:- 29153900)	10 Tonnes	Chemical
Butyllithium 23% in Hexane (Cas no:- 109-72-8)	2 Tonnes	Industrial
Details : 1) Provide MSDS/Packing certificate. 2) Unit: butyllithium content base 2ton/month , (450L cylinder, 800L Cylinder). Could you give me an estimate of FCL, COA?		

Product Name	Qty	Grade
Anti-Foam/Defoamer	13 Tonnes	Industrial
EDTA 48% / CAS#: 6381-92-6	3 Tonnes	Industrial
Details : Required for Affluent Treatment Plant, about 30T-40T of 40% EDTA would be required per oiler for cleaning. Payment Terms: On Delivery		

Product Name	Qty	Grade
Methane Sulphonic Anhydride CAS NO:- 7143-01-3	30 Kgs	Industrial
Details : Please quote the best price.		

Product Name	Qty	Grade
5-Fluorocytosine CAS# :- 2022-85-7	500 Kgs	Industrial
Delivery: CIP MUMBAI AIR Descripiton:- Pls send best quote along with delivery period.		

Product Name	Qty	Grade
Manganese Dioxide (90%) CAS# :- 1313-13-9	12 Tonnes	Technical
Payment terms : 1 Month Description:- Please send best quote along with COA/MSDS, & 4 Kg Sample required for testing purpose.		

Product Name	Qty	Grade
1-Iodo-2,2-dimethylpropane CAS# :- 15501-33-4	500 Tonnes	Industrial
Details : 1. Quote us your best CIF Air (Shanghai, China) price. 2. Advise us the shortest leading time. 3. Attach your recent batch COA for quality approval.		

Product Name	Qty	Grade
Detergent Solvent "Solvesso 100 (C4 163-180 GOST 10214-78)	2000 Ltrs	None
Solvent 646 GOST 18188-72	90 Ltrs	None
Leads : 1. Technical documentation such as drawings, datasheets and etc./ if applicable 2. All applicable material certificates (COC , MTC, Calibration ,etc.,) 3. Exact or approximate packing information and HS codes. 4. Delivery term we prefer FCA or DAP Baku & for EXW term Pick-up Address. 5. Price offer should be valid 1 month. Other Techinical Details:- Color - transparent or yellowish Density at 200C - 0.860 gr./m3 Volatility (based on xylene) - 8 – 15 Sulfur content - 0.020% Ignition temperature (open crucible) - 270C		

Product Name	Qty	Grade
PeCeVis 100 PS // 39069090 // MBCC Group	1 Tonnes	Any
Leads : Broadways Chemtech		

Product Name	Qty	Grade
Potassium Chloride CAS#:- 7447-40-7	100 Tonnes	Industrial
Details : By product low grade.		

Technological Advancement in Smart Coatings: Research Initiatives Taken by Different Companies and Universities for the Development of Novel Materials and Processes

DUBLIN, Oct. 13, 2023 /PRNewswire/ -- The "Technological Advancement in Smart Coatings: R&D and Application Analysis" report has been added to ResearchAndMarkets.com's offering.

The market for smart coatings is poised for expansion and presents several growth opportunities that are driven by the convergence of different advancements in technology, increasing industry demand for advanced functionalities, and focus on sustainability and environmental protection.

Smart coatings play a significant role in a wide range of industrial and application segments because of their unique capabilities, such as improving surface properties, adding different functionalities, increasing efficiency, protecting against environmental elements, and enhancing the aesthetics of the structure.

The "Advances in Smart Coatings: R&D and Application Analysis" focuses on identifying and analyzing across different industrial segments under each category of smart coatings.

The developments are categorized into four major approaches: self-healing coatings, repellent coatings, conductive coatings, and sensor-based coatings. The analytics identifies drivers and restraints that lead to the adoption of smart coatings. The toxicity of conventional coating solutions, the presence of heavy metals and volatile organic compounds drive R&D and uptake of smart coatings.

EPA and ECHO regulations and other strict initiatives in North America and Europe are promoting sustainability by reducing harmful emissions and encouraging resource efficiency. However, integrating smart coatings into existing manufacturing processes, capital required to develop novel materials and follow production protocols, and recycling are major challenges.

Read the full report : https://www.researchandmarkets.com/r/qkjt1j

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Global Automotive Adhesives Market Driven by Growing EV Adoption and Lightweight Vehicle Demand, Set to Reach $8.0 Billion -by 2028

DUBLIN, Oct. 13, 2023 /PRNewswire/ -- The "Automotive Adhesives Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028" report has been added to ResearchAndMarkets.com's offering.

The global automotive adhesives market reached a size of $5.9 billion in 2022 and is poised for substantial growth in the coming years. Projections indicate that the market will reach $8.0 billion by 2028, exhibiting a robust compound annual growth rate (CAGR) of 5% during the period from 2023 to 2028.

Automotive adhesives are fluid substances utilized to bond composites, metals, plastics, and materials together in the automotive industry. These adhesives are available in various types, including solvent-based, water-based, and hot melt variants, some of which contain volatile organic compounds (VOCs). Key constituents used in manufacturing automotive adhesives include ethylene, amine-based resins, propylene, epoxides, acrylics, polyester resins, vinyl acetate monomer, and synthetic materials. These adhesives find widespread application in bonding and sealing interior and exterior components of au-

tomobiles, such as door panels, light covers, armrests, dashboards, lenses, chassis, headliners, consoles, and door skins. They facilitate automation, ensure strong bonds, minimize drying time, enhance cohesive strength, and offer corrosion resistance. Additionally, automotive adhesives contribute to improved crash performance, noise vibration reduction, weight reduction in vehicles, and increased front and rear lateral body stiffness.

Read the full report : https://www.researchandmarkets.com/r/nz2jyr

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Celgard Charlotte Manufacturing Facility to Expand Battery Separator Capacity and Create New Jobs

CHARLOTTE, N.C., Oct. 31, 2023 / PRNewswire/ -- Celgard, LLC (Celgard), a subsidiary of Polypore International, LP (Polypore), an Asahi Kasei Company is pleased to announce a major expansion at its Celgard manufacturing site in Charlotte, North Carolina. Asahi Kasei approved investment in Hipore™ wet-process coating and finishing lines at the site to meet the increasing demand for lithium-ion battery (LIB) separator in the electric vehicle (EV) market. The Biden-Harris Administration and the U.S. Department of Energy (DOE) have identified the domestic U.S. battery market as a critical supply chain focus area for the nation. Investments in Celgard's Charlotte plant will allow the company to expand existing infrastructure to quickly meet demand of the lithium-ion battery (LIB) separator supply chain and domestic customers.

Celgard manufactures dry-process membrane separator also used in vehicle electrification. The company already has a skilled employee base capable of applying technical coatings to base film shipped from Hipore™ sister locations and completing finishing steps required to meet customer specifications. Both wet-process and dry-process membranes have unique properties that meet a variety of needs in the automotive market. With the expansion, the Celgard manufacturing site will be positioned to provide the best domestically sourced solutions to the market with a complete product portfolio. Chad Schuchmann, Polypore's CEO, shared this about the investment: "Celgard has been a key player in the domestic EV and lithium-ion battery supply chain from the beginning and our expansion in North America not only further solidifies our position as a market leader with a skilled workforce but also fully supports the nation's efforts to establish a thriving domestic lithium battery and EV supply chain." Construction will begin at the Charlotte site starting in early 2024 with operations planned to start up in 2026. The expansion will create about 100 new clean-energy jobs at the Charlotte facility.

Read the full report : https://www.celgard.com

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

Aker Horizons allocated grid capacity for Green Ammonia Production in Narvik and Berlevåg by Statnett

LYSAKER, Norway, Oct. 31, 2023 / PRNewswire/ -- Aker Horizons ASA (OSE: AKH), a developer of green energy and industry, has applied for and been allocated grid capacity of 250 MW for its large-scale green ammonia plant under development in Kvandal outside Narvik, and 120 MW for its facility in Berlevåg, both in Northern Norway.

The grid capacity in Kvandal was allocated through Nordkraft Industrinett AS. The allocation ensures that the Narvik Green Ammonia project, being developed in partnership with Statkraft, has sufficient grid for daily production of up to 1,000 tons of green ammonia. The project aims to reach final investment decision in 2025, with a target of starting commercial operations in 2028.

"We are pleased to have been allocated the grid capacity for our Narvik Green Ammonia project from Statnett. This award adds a key component in realizing the project, strengthening the opportunity to establish Kvandal and Narvik as a hub for new green industry in the region," says Kristoffer Dahlberg, Chief Financial Officer in Aker Horizons Asset Development.

The grid capacity in Berlevåg was awarded through Barents Nett AS. The 120 MW will be available when the new 420kv-line to Seidafjellet is completed and is a key step towards realizing large-scale green ammonia production in Berlevåg.

Read the full report : https://www.aker-horizons.com

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Orion Highlights Circular, Bio-based Carbon Blacks for Coatings at 36th Western Coatings Symposium

Orion S.A., a global specialty chemicals company, is spotlighting several new sustainable carbon blacks for coatings at The 36th Western Coatings Symposium and Show (WCS). Orion (booth 115) will showcase three new circular grades – one for high jetness and two for tinting applications – plus PRINTEX kappa 50 conductive carbon black at WCS Oct. 16-17, 2023, in Las Vegas, Nevada.

"Guided by our sustainability strategy, we help coatings manufacturers produce sustainable materials and participate in the circular economy," said Carlos Hernandez, marketing manager, coatings & printing systems for the Americas at Orion. "We offer circular grades based on pyrolysis oil and bio-based grades based on renewable sources, and they all meet the same application requirements as conventional specialty carbon blacks."

Circular carbon blacks for high jetness and tinting

Orion's first circular gas black for coatings systems is XPB 10045. Based on pyrolysis oil to support the transition to a circular economy, XPB 10045 is designed for high-jetness applications and is compatible with all suitable coatings systems.

"XPB 10045 is a proof of principle," said Jennifer Stroh, PhD, director of sales and marketing – Specialties Americas at Orion. "We have shown that XPB 10045 matches the performance of our current specialty carbon black grades. This new circular grade will enable formulators to create more sustainable coatings with comparable application properties to regular specialty carbon blacks."

Orion's first circular furnace blacks are XPB 10042 powder and XPB 10049 powder. These new grades are based on pyrolysis oil and are designed for tinting applications. They offer the same advantages as the high-jetness black, with application properties similar to currently used specialty carbon blacks.

Conductive and clean

PRINTEX kappa 50 beads or powder meets or exceeds performance requirements for conductivity, dispersibility and cleanliness at lower concentrations than conventional conductive carbon blacks. Introduced in 2013 and previously designated XPB 545, PRINTEX kappa 50 achieves the percolation threshold with low carbon black loading and good coloristic properties.

Orion also offers its "Carbon Black Guide." Featuring 34 of Orion's most popular carbon blacks used globally for coatings, the "Carbon Black Guide" gives paint formulators a visual sense of the shades they can achieve with different grades. Color chips in the guide show the shades each grade imparts in three coatings types – solid, white blend and alkyd enamel – and details relevant coloristic properties.

Source : Coatings World

Everest Systems Introduces New Polyurea Coating

Everest Systems recently launched EverMax Polyurea, a durable and flexible coating for commercial roofing applications. This polyurea coating is designed for low shrinkage, extreme flexibility, and has exceptional resistance to mechanical damage.

As a major component in Everest's EverMax Roofing System, EverMax Polyurea raises the performance of the system to a high-impact solution for areas that experience extreme weather events. EverMax Polyurea has a unique combination of very high tensile strength and exceptional flexibility. The product is well suited to resist hail impact and minimize the need for costly insurance claims, making the system a cost-effective and smart solution for the building owner. The restoration process with EverMax is ideal with minimal downtime for the applicator, another cost-effective

Continue on Page 47

ANGLO AMERICAN PLATINUM, BMW GROUP AND SASOL ANNOUNCE COLLABORATION TO DRIVE THE GREEN HYDROGEN ECONOMY WITH THE LAUNCH OF A PILOT FLEET OF HYDROGEN VEHICLES IN SOUTH AFRICA

Anglo American Platinum, BMW Group South Africa and Sasol South Africa Limited this morning signed a collaboration agreement that will bring hydrogen fuel cell electric vehicles (FCEVs) and supporting hydrogen refuelling technology to South Africa.

In terms of the agreement, which was signed at the 2023 South African Green Hydrogen Summit in Cape Town, BMW will provide the hydrogen fuel-cell electric vehicles, while Sasol will supply the green hydrogen and mobile refueler. These vehicles will operate on South African roads as part of an international trial to understand how the BMW iX5 Hydrogen performs in real-world conditions, following four years of development work. Anglo American Platinum, which provides platinum group metals (PGMs) used in FCEVs and has been investing in hydrogen technologies for many years, will work closely with BMW and Sasol to help develop a local green hydrogen mobility ecosystem.

The agreement is a significant step towards accelerating the uptake of FCEVs and the establishment of related infrastructure in the country. Growing the market for hydrogen-fuelled mobility solutions is a key pillar of the South African government's green hydrogen economy strategy, which will lower carbon emissions, unlock investment, create jobs, and drive demand for critical metals and raw materials, including PGMs.

Sasol Executive Vice President for the Energy Business, Priscillah Mabelane, said: "Sasol, BMW and Anglo American Platinum recognise the urgency of addressing climate change, and this agreement demonstrates our commitment to revolutionising the energy sector by exploring and promoting cutting-edge solutions. As an organisation that has been producing and marketing hydrogen for more than 20 years, we know hydrogen. We produced our first batch of green hydrogen at our Sasolburg facility in June and in 2024 we will ramp this up to commercial scale when a 69MW wind farm, situated in the Eastern Cape, comes online. As Sasol we are excited to be part of this demonstration, which has been strategic in showcasing local capability and the art of the possible."

Peter van Binsbergen, CEO of BMW Group South Africa, said: "One technology on its own will not be enough to enable climate-neutral mobility worldwide. As a versatile energy source, hydrogen has a key role to play on the road to climate neutrality. We believe South Africa – with its abundance of raw materials and sound infrastructure base – is ideally placed to deliver on the Green Hydrogen Economy's promises. Soon, with collaborators Sasol and Anglo American Platinum, we will be able to demonstrate the technical maturity of BMW's fuel cell electric vehicle drive system, underscoring its potential for the future."

Craig Miller, CEO of Anglo American Platinum, said: "Hydrogen fuel cells are a critical technology for zero emission electric vehicles, and we believe FCEVs will play an important role in the mix of drivetrain technologies needed to decarbonise all forms of transport. FCEVs benefit from short refuelling times and long ranges, similar to using a diesel or petrol vehicle, but with the added benefit of zero emissions. Our collaboration with Sasol and BMW builds on various partnerships we have around the world to drive green mobility solutions and develop new uses for the products we mine."

Source : Sasol

CELANESE LAUNCHES NEW PA SOLUTIONS TO IMPROVE PERFORMANCE OF ELECTRIC VEHICLE COMPONENTS

Celanese Corporation, a global specialty materials and chemical company, announced the global commercial launch of two new polyamide solutions for manufacturers of Electric Vehicle (EV) powertrain components and EV battery applications.

The Frianyl® PA W-Series of flame-retardant polyamide solutions enables the manufacturing of large, thick-walled, flame-retardant components for EV

batteries. With the W-Series solutions, manufacturers can improve the safety of these components, introduce novel new designs and enhance manufacturing efficiency. Potential applications include battery module housings, e-box housings and covers, and more.

The W-Series solutions achieve V-0 flame retardance at 1.5mm, combined with excellent flow characteristics. Compared to standard PA66 grades with 30% glass fiber reinforcement, the equivalent grade of the new W-Series offers a 10-20% improvement in flow in an injection mold, depending on the pressure applied. Improved flow means manufacturers can consider new designs and more readily fill molds during processing, potentially leading to cycle time reductions. The W-Series solutions also have excellent laser markability with all common laser marking processes.

In addition, the Frianyl® PA W-Series solutions exhibit an excellent Comparative Tracking Index (CTI) even after aging at 125°C for 1,000 hours. Long-term color stability of parts manufactured from these materials, measured at 125°C, is also notable with no visible change to the eye, and even only a nominal change when measured in a color lab.

Celanese also introduced Celanyl® PA B3 GF30 E, a new polyamide-based compound for semi- and structural EV powertrain applications. With this grade, the HB flame class is achieved, as well as a CTI of 600 even after 3,000 hours of aging at 150°C. The extremely low halide content in the Celanyl® PA B3 GF330 E solution makes it an electrically friendly option for applications like connectors, switches, relays, busbars and sensors that can malfunction or short circuit when voltage is applied. Malfunctions often occur because of three factors: surface moisture, elevated temperature and traces of halide ions such as chlorine, bromine or iodine that can lead to electrolytic corrosion. The Celanyl® B3 GF330 E solution helps manufacturers overcome these performance challenges.

The Frianyl® PA W-Series and Celanyl® PA B3 GF30 E solutions are now commercially available globally.

Source : Automotive Technology

AVERY DENNISON LAUNCHES NEW ELECTRICAL INSULATION TAPES FOR EV BATTERY PACKS

Avery Dennison Performance Tapes has released a newly developed portfolio of electrical insulation tapes under the Volt Tough™ name. The company reports that this advanced offering of electrically insulative, single-sided filmic tapes is engineered to address the challenges of insufficient electrical insulation in EV battery packs.

"With every major OEM currently electrifying their fleets, engineers are facing new challenges in dealing

with high voltages in their battery packs," said Scott Krusinski, market manager, Energy Storage, Avery Dennison. "The need for safe, reliable, high-performing solutions has never been greater. The Volt Tough™ portfolio is specifically engineered to enhance electrical insulation in EV battery packs. Proper insulation is critical to protecting cells and other sensitive components to prevent electrical arcing that can lead to shorting and fires."

Arcing can occur between high-voltage battery cells and conductive components throughout a pack, including the cooling components, busbars, cell connection systems, heat spreaders, and other structural elements.

The Volt Tough™ portfolio includes a wide range of tapes that incorporate several critical features for OEMs and converters, including:

- Conformable options for curved geometries

- High abrasion-resistant options
- Various color options for vision inspection systems
- Flame-retardant options for UL® 94 and other flame requirements
- High dielectric strength with thin, consistent profiles enabling higher energy density
- Instant bonding to enable efficient production

The company reports that in comparison to EV battery spray coatings, Volt Tough™ tapes provide a multitude of benefits that render it a more advanced solution, including lower cost, no curing time, thinner profiles for better heat flow and extended shelf life.

Source : Avery Dennison

ACE GREEN RECYCLING ENTERS INTO LITHIUM-ION BATTERY RECYCLING RESEARCH AGREEMENT WITH NATIONAL RENEWABLE ENERGY LABORATORY

GOLDEN, Colo., Oct. 18, 2023 / PRNewswire/ -- ACE Green Recycling (ACE) and the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) have signed a Cooperative Research and Development Agreement (CRADA) to further develop and optimize ACE's environment friendly and low cost lithium-ion battery recycling technology for recycling of graphite, lithium-iron phosphate (LFP) and other cathode active materials. This collaboration advances DOE's deep commitment and investments in the development of sustainable, cost effective and environment friendly lithium-ion battery recycling in the United States.

Located in Golden, Colorado, NREL is a DOE national laboratory focused on renewable energy and energy efficiency research and development. As part of this mission, NREL is committed to the development and deployment of key breakthroughs for battery recycling technologies.

The volume of LFP batteries based electric vehicles is primed to grow significantly in coming years with major automobile manufacturers like Tesla and Ford starting to switch to LFP from Nickel and Cobalt based batteries due to its lower cost. However, LFP battery recycling is seen by the industry as a particularly challenging problem due to the difficulty in extracting its valuable materials (lithium and graphite) profitably.

"Current hydrometallurgical recycling methods focus on extracting high-value materials from LFP batteries, such as lithium and copper," said Andrew Colclasure, NREL. "To encourage a more holistic approach to recycling, we must demonstrate efficient processes that also recycle low-value materials such as graphite and iron-phosphate into commercially viable products. We look forward to working alongside our industry partners to advance low-cost recycling technologies to make the process more economical and environmentally friendly." ACE has already developed its proprietary technology for recycling LFP batteries at bench scale which is currently undergoing commercial scaleup. Under this research agreement, NREL will assist ACE in evaluating commercialization of this process to recycle LFP batteries and to upcycle graphite to battery grade.

"We are excited to work with the talented team at NREL in our journey to commercialize our lithium-ion battery recycling technology and help the United States move towards sustainable domestic battery materials supply chain," said ACE Green's Co-founder and CTO, Vipin Tyagi.

As part of the agreement, NREL will provide its capabilities in cell production, modeling, analysis and other advanced tools to demonstrate ACE technology's value proposition with primary work to be conducted at NREL's facility in Colorado. Overall, the project aims to identify optimal recycling parameters for LFP and graphite that will maximize performance and lifetime requirements of batteries made from recycled materials using ACE's technology as compared to the ones made from virgin materials.

The potential upcycling of graphite obtained from ACE's technology can help solve the dependence of more than 60,000 MT of graphite electrodes that the United States currently imports while deepening its technological and engineering leadership and reducing its dependence on foreign supply chains. NREL and ACE's collaboration is in line with the goals of the recently announced Inflation Reduction Act which amongst other key goals, aims to support localization of supply chain of critical materials within the United States.

Source : PRNewswire

MALVERN PANALYTICAL UNVEILS EPSILON XLINE TO ENABLE SIGNIFICANTLY IMPROVED BATTERY AND FUEL CELL PRODUCTION CONTROL

Malvern Panalytical, a leading analytical instrumentation supplier, today announces the official launch of Epsilon Xline, a stand-alone solution that takes the laboratory precision of web and coating control in the battery and fuel cell industry right to the roll-to-roll production process.

As we move towards a sustainable future, fuel cell manufacturers are seeking innovative technology to help them produce materials as fast as possible at constant quality and with minimized variations.

The Epsilon Xline has been custom-engineered to meet these needs by offering optimized production efficiency and cost-effectiveness in the fabrication of catalyst coated membranes. The game-changing instrument provides highly accurate materials monitoring and non-destructive in-line process control in the continuous fabrication of catalyst coated membranes.

Key features and benefits of Epsilon Xline include:

1. Continuous monitoring and process control of roll-to-roll (R2R) coating processes: with real-time analyses eliminating the need for sampling and associated disruptions of the coating process.

2. Precise measurement: a patented robotic arm with an ultra-fast Silicon Drift Detector (SDD) provides optimal distance control over the production line for accurate measurements at high count rates.

3. Seamless integration into production process: Epsilon Xline supports standard communication protocols, facilitating its adoption and integration into existing production setups.

4. Comprehensive element analysis: the instrument is capable of measuring all valuable elements of interest, including platinum and cerium, enabling manufacturers to optimize catalyst composition and loading for exceptional performance.

5. Precision measurement of thin layers: using proven software for single as well as multi-layer webs.

6. Versatile use in patch, continuous or multi-lane coating processes: with multiple scanning options for quality coatings, creating a better end product.

7. Wide roll width compatibility: Epsilon Xline accommodates a wide range of roll widths, enhancing the manufacturing flexibility to meet the increasing product differentiation in the fuel cell industry.

"The introduction of Epsilon Xline represents a significant milestone in state-of-the-art fuel cell production control," says Michel Zoontjes, Product Manager XRF at Malvern Panalytical. "With the market's fastest SSD head compared to conventional X-ray fluorescence or energy dispersive solutions, it helps manufacturers achieve real-time insights and on-line control for high-quality production. Epsilon Xline can make a competitive difference by minimizing off-specification production and maximizing cost-efficiency especially when working with rare and expensive precious materials. We are proud to offer this technology as a

contribution to a more efficient and sustainable future in this industry."

For a complete understanding of Epsilon Xline's capabilities, please view the product video on our website and read our blog on fuel cell production challenges and solutions.

Source : Press Release

CLARIANT LAUNCHES NEW RANGE OF EXCIPIENTS TO IMPROVE STABILITY AND SOLUBILITY OF APIS AT CPHI BARCELONA

- Clariant Health Care expands the range of functional excipients to solve active pharmaceutical ingredient (API) delivery & bioavailability challenges
- New effective carrier systems for drug delivery in different dosage applications including oral, topical & parenteral
- One-stop shop solution provider of excipients from standard to highly purified grades for unique application-specific formulation flexibility – find out more at CPHI Barcelona stand 5C29 (zone Excipients)

MUTTENZ, October 18, 2023 - Clariant, a sustainability-focused specialty chemicals company, announces new additions to its portfolio of high-performing pharmaceutical ingredient solutions to support the evolution of safe and effective medicines. At CPHI Barcelona, Clariant will unveil three new VitiPure® excipients allowing for a multitude of Active Pharmaceutical Ingredient (API) formulations and administration routes, even for sensitive ones, such as mRNA vaccines and biologic medications, establishing it as a one-stop shop solutions provider to the industry.

"We've built on our proven track-record in supporting pharmaceuticals' production to create a new Health Care Business Line with a broader portfolio of solutions for the industry's developing technologies such as the injectables segment. With our new excipients, we address the market's growing trend for high-purity ingredients, by solving inherent stability and bioavailability[1] [TP: see comment above] challenges of Active Pharmaceutical Ingredients so that they can travel to where needed inside the body and be delivered effectively," comments Michael Haspel, Global Head of Segment Personal, Home & Health Care at Clariant.

Two high-purity grades will make their debut at CPHI, both purified via a patented process to minimize residual impurities in the product:

VitiPure O 80 Superior is a highest quality, low microbial load Polysorbate 80, with low residual impurities, colorless and odorless, offering high stability to APIs. It is a nonionic solubilizer, emulsifying agent and stabilizer used in applications where highest purity requirements are demanded to improve the stability and color of end formulations. Typically, VitiPure O 80 Superior could be best suitable for biologics molecules administered via parenteral drug delivery systems where the API is sensitive to any impurities potentially coming from the excipient.

VitiPure CO 35 Superior is a Polyoxyl 35 Castor Oil with low residual impurities, colorless and odorless, with low microbial load and improves the stability of APIs. It is non-ionic solubilizer typically used in parenteral application where the end formulation should be colorless, and the API is sensitive to impurities from the excipient.

Through launching these highly-purified products, Clariant is unique in offering its customers the flexibility to choose from three different levels of purity for Polysorbate 80 and for PEG 35 castor oil: standard, low microbial, and highly purified options. This offers flexibility to select the most relevant solution for the needs of a specific application level, such as oral, topical, or parenterals.

Also new at CPHI, VitiPure Meglumine LEX, a low-endotoxin and microbial-load grade of Meglumine. It is used as a counterion in contrast media sector, as buffering agent/alkalizer and solubilizer for mild acidic APIs. Applications include oral solid and liquid formulations. VitiPure Meglumine LEX is suitable for formulations where low bioburden and low endotoxin grade is desired.

In line with providing robust regulation support to customers, Clariant offers a detailed investigation report on Nitrosamines analysis for this product as per the existing guideline due to the presence of Nitrogen group (-N-) in its molecular structure. The analysis verifies that it is produced with the most stringent quality standards.

"Our strong focus on quality assurance and years of experience in regulatory affairs through long-standing production of APIs and excipients guarantees best risk assessment for our products, for our customers in their pharmaceutical developments," adds Vaios Barlas, Global Head of Health Care at Clariant. "At the same time, we are soon opening our Health Care application labs, first in January 2024 in Frankfurt

Germany at the Clariant Innovation Center, and afterwards in New Providence, New Jersey, USA, to support our customers in tackling their challenges with hard-to-solubilize APIs. We are all set for collaborative work with our customers."

Clariant offers an extensive range of Pharmaceutical Excipients for effective solubilization, bioavailability enhancement, controlled release, stabilization, continuous manufacturing, preservation, rheology modification and viscosity enhancement. These complement its range of Polyglycols used as APIs in Laxative formulations and in ophthalmic medicines.

All Clariant Health Care ingredients are manufactured according to IPEC-PQG or ICHQ7 Good Manufacturing Practice (GMP), and supported by dossiers for qualification, registration, and risk assessment as per current EMA / FDA regulatory guidelines.

Source : Press Release

ESCHBACH ANNOUNCES NEW SHIFTCONNECTOR® TIER COLLABORATION DASHBOARD TO ENHANCE PHARMACEUTICAL MANUFACTURING

San Francisco, CA - October 23, 2023 – Global software developer eschbach, the provider of Shiftconnector® digital manufacturing software for the pharmaceutical and chemical manufacturing sectors, announces that its Shiftconnector enterprise software now has developed a new collaboration dashboard

specifically designed for pharmaceutical manufacturing. Announced at the AVEVA World Summit in San Francisco, the new interactive dashboard plugs communications gaps that often occurs between shifts and the protective multilayers in pharma manufacturing that are vulnerable to errors and deviations.

"Because of the high stakes faced by the pharma industry, poor communication is something that manufacturers can't afford to ignore," said Andreas Eschbach, founder and CEO of eschbach. "Improving communication across shifts, teams, and areas of responsibility will help manufacturers avoid quality issues and nonconformities, costly recalls, regulatory penalties, and safety incidents. With Industry 5.0, data, technology and humans are connected. We worked closely with our pharmaceutical customers to develop the Tier collaboration board in Shiftconnector to increase transparency across all levels of the enterprise while also enhancing communication among teams, making it quicker to see critical KPIs and information to respond faster."

Often in complex systems like pharma manufacturing processes, each layer or tier is a barrier that is expected to offer protection from errors or deviations – from raw material handling to final product packaging. However, holes in these layers can present vulnerabilities and this is where communication passed among the people in each layer or tier is crucial in helping to ensure the operational clarity that will mitigate risks, add to process efficiencies, support compliance, and ultimately strengthen an organization's competitive edge.

With the Shiftconnector digital enterprise platform, people and machines can work together to improve operation efficiency, quickly solve emerging problems, and accelerate the pace of process improvement. With the power to capture full organizational knowledge among the workforce across multiple systems and sites, Shiftconnector improves communication, information sharing, and collaboration across the organization. For process manufacturers like pharma, that translates to measurable gains in productivity and performance as well as enhanced safety and compliance.

Source : Press Release

MIXING TECHNOLOGIES FOR THE PRODUCTION OF LOW- TO HIGH-VISCOSITY ADHESIVES

Adhesives are formulated from different chemistries depending on their end use and desired performance. The type and amount of resin, curing agent, fillers, and additives are selected to optimize bonding to a particular substrate in a particular environment. In a similar way, the mixing technologies utilized in the production of adhesives also vary from one formulation to another. Mixer selection is based on a number of factors but primarily viscosity profile and shear input.

The ideas discussed in this paper are recommendations based on Ross' collective experience as a provider of specialty mixing equipment to the adhesive industries. Mixer testing and simulation trials are recommended to confirm the suitability of a specific mixing strategy.

The preparation of almost all adhesives begins and ends with adequate mixing. From the homogenization of adhesive emulsions, to the dissolution of polymers into solvents, or mastication of rubber and let-down of master batches, the type of mixing equipment and method hugely dictate overall processing efficiency and end-product quality. This paper seeks to provide an overview of effective and updated mixing technologies being implemented across many of today's competitive adhesives manufacturing plants, as well as new equipment designs increasingly being recognized by the industry as potential solutions to prevailing mixing challenges.

Early equipment used to dissolve polymers into solvent was based on low-speed propeller, turbine, or rake-type agitators in vessels (known as churns). These devices relied heavily on the solvent's softening action on the polymers and predictably yielded very long cycle times. Mixing in a churn for as long 12-24 hours was typical. The operator would load the vessel with raw materials, turn on the mixer in the morning and shut it off in the evening or the next day. This problem was exacerbated when the resin was supplied in pellet or slab form, making it difficult to dissolve. Even with the introduction of saw-tooth type high-speed dispersers, batch times could take up to several hours just to dissolve the resin.

To hasten the solvation process, a High Shear Mixer is recommended. Composed of a four-blade rotor that turns at high speeds within a stationary stator, this mixing device will mechanically shear large particles and reduce their size. Materials are drawn from below the mix head and expelled at high velocity through the openings of the stator, creating intense hydraulic and mechanical shear. As fast as material is expelled, more is drawn into the rotor/stator generator. Polymer particles are thus broken down into smaller and smaller pieces, which get easier and easier to dissolve. Fillers too such as fumed silica are dispersed faster with a High Shear Mixer compared to lower-energy devices.

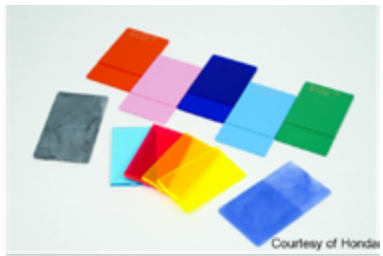
Source : ASC

NEW ACRYLIC RESIN MATERIAL FOR AUTOMOTIVE BODIES UNDER JOINT DEVELOPMENT WITH HONDA - RECYCLING AND ELIMINATION OF PAINTING REDUCE ENVIRONMENTAL IMPACT -

The Mitsubishi Chemical Group ("the MCG Group") is pleased to announce that it and Honda Motor Co., Ltd. ("Honda") are jointly developing PMMA (polymethyl methacrylate, hereinafter referred to as "acrylic resin") material for automotive body parts. Two concept models, SUSTAINA-C Concept and Pocket Concept, that use this product will be exhibited at the Honda booth in the JAPAN MOBILITY SHOW 2023 which runs from October 28 to November 5, 2023 at Tokyo Big Sight.

Currently, steel is the commonly used material for automobile bodies. We are developing a new acrylic resin material that can be adopted for doors, hoods, fenders, and other automotive body parts. This resin material is made by compounding acrylic resin with rubber particles to improve the impact resistance required for automobile bodies. Acrylic resins are highly transparent and can be toned to a variety of colors, enabling manufacturers to create glossy surfaces simply by adding colorants. It also helps reduce CO2 emissions generated in painting process by eliminating the need for painting.

Compounded rubber creates a pliable texture



New design using resin (marble color)

Furthermore, acrylic resin is suitable for recycling because it can be decomposed into acrylic raw materials at high yields by heating, and with a view to starting operation of a recycling plant in fiscal 2025, the MCG Group aims to commercialize its acrylic resin molecular recycling business. Taillight-to-taillight closed-loop recycling trials conducted in collaboration with Honda and Microwave Chemical Co., Ltd. yielded recycled products with quality levels comparable to conventional products. Compared to conventional products, we expect to reduce GHG emissions over entire product life cycles by about 50%*1 using the verified recycling technologies. In fact, recycled acrylic resin is being used in this new resin material we have recently developed.

Ahead of commercializing the acrylic resin molecular recycling business, Mitsubishi Chemical Corporation, a member of the MCG Group, has filed international patent applications for several patents relating to recycled raw materials and acrylic resins made from such recycled raw materials. These applications relate to technologies that are required to satisfy levels of quality comparable to conventional products. Several patents have already been granted in Japan and the company is working to acquire rights in various other countries.

The MCG Group is committed to continue to promote further technological development to provide high value-added products and contribute to the realization of sustainable societies.

Source : Mitsubishi Chemical

AKZONOBEL USES RAPESEED AND PINE ROSIN TO CREATE FIRST BIO-BASED INTERIOR COATING FOR KIA MOTORS

KIA Motors is using bio-based paint supplied by AkzoNobel for the inside of its new EV9 electric SUV. It's the first time the vehicle manufacturer has specified an interior bio-based coating.

Two kinds of bio-rosin (rosin is a solid form of resin) have been used to create the product, one extracted from rapeseed, the other from pine rosin. The paint can be found on the EV9's interior door switch panels, with AkzoNobel also supplying coatings for the rest of the interior.

"Both companies have a long history of developing more sustainable products and we're proud to have played a role in helping KIA Motors achieve a notable production landmark," says Patrick Bourguignon, Director of AkzoNobel's Automotive and Specialty Coatings business.

As well as obtaining 100% color master approval, the bio-based paint being used on the EV9 also meets all of KIA Motors' requirements for both chemical and physical resistance (against suncream, air freshener, heat and scratches, for example).

"KIA Motors had a very specific coating requirement for the EV9 and the performance of our bio-based product met all their needs," continues Bourguignon. "It's the latest example of how we as a business continue to develop advanced coatings technology that minimizes environmental impact, without compromising on quality."

AkzoNobel has been a proud partner of KIA Motors for ten years, and while this new agreement is currently limited to EV9 models produced in South Korea, it's expected to be extended to several of the vehicle manufacturer's upcoming EV models.

Source : AkzoNobel

DISCOVER CLARIANT'S NEW CERIDUST® 8170 M PTFE-FREE TEXTURING AGENT FOR POWDER COATINGS

- Newly developed agent uniquely PFAS/PTFE-free with texturing
- Ceridust 8170 M REACH compliant
- Lower energy usage compared to PTFE containing products
- Excellent performance in light and dark colors

MUTTENZ, October 17, 2023 - Rising concerns about the impact of PFAS on human health and the environment have led to a growing demand for PTFE alternatives. As part of this trend, Clariant has launched Ceridust 8170 M, a PFAS/PTFE-free agent with texturing effects for Architectural Powder Coatings.

For use on window frame and fence surfaces to furniture and bicycle rims, the new additive delivers excellent performance in dark and light colors with no extrudate swelling, and with the ability for gloss and texturing levels to be adjusted.

Ceridust 8170 M complies with the European Union's REACH legislation. It can also help to lower energy consumption during the extrusion process.

Regulations around the world are increasingly targeting PFAS-related compounds. Currently under public consultation, the European Union has developed legislation to further restrict or ban PFAS products from as early as 2026. Japan's environment agency has approved a ban on the manufacture, import and use of 56 PFOA- related compounds under the country's Chemical Substance and Control Law while the U.S. EPA wants to designate PFOAs and PFOS as "hazardous substances" under the federal Superfund law.

"As a sustainability front-runner, Clariant is taking a proactive, pro-safety and pro-environment approach to help customers navigate this uncertain and fast-moving landscape. With Ceridust

8170 M, the challenge was to create a product for texturing effects in powder coatings that was PTFE-free and that offered equal performance to PTFE-containing predecessors," said Simon Bodendorfer, Technical Business Development Manager at Clariant.

"As PTFE-free additives will soon be a major business imperative, we're proud to have developed this leading alternative for Architectural Powder Coatings."

In this respect, Clariant's "Coatings Innovation Center" is newly open for business and ready to engage with customers in collaborative projects. The ground-breaking, state-of-the-art R&D facility, located in Charlotte, North Carolina, is supporting high-performance and sustainable additive development for North America's paints and coatings industry. Applications developed with Ceridust can be tested at this facility.

Ceridust 8170 M is the latest addition to the growing Ceridust portfolio of additives that offer solutions focused on today's challenges of minimizing environmental impact and maximizing product performance. Clariant's PTFE-free solutions include polyethylene waxes and a bio-based wax blend, all with proven success in replacing PE/PTFE additives.

Source : Press Release

TEGO® FOAMEX 8880 DEFOAMER EMULSION COMBINES THE POWER OF SILOXANES WITH BIO-BASED MATERIALS

Evonik's Coating Additives business line is expanding its TEGO® Foamex product range with a new defoamer built on unique hybrid technology that features bio-based polymer and polyether siloxane.

- New and unique hybrid technology for waterborne inks and coatings
- More than 50% bio-based materials

in the non aqueous phase

- Compliant with numerous food contact regulations

Essen, Germany. Evonik's Coating Additives business line is expanding its TEGO® Foamex product range with a new defoamer built on unique hybrid technology that features bio-based polymer and polyether siloxane.

The new TEGO® Foamex 8880 has been developed for easy incorporation into waterborne inks at any stage of ink manufacture and even for press-side addition. The defoamer offers excellent foam prevention and great foam knockdown. "Different technologies have different strengths. Standard siloxane-based defoamers emulsions are typically added at let-down stage, but are not necessarily the first choice for addition at the press-side," says Courtney Thurau, Head of Global Market Segment Printing Inks at Evonik Coating Additives.

TEGO® Foamex 8880 is a non-ionic emulsion with a high content (more than 50%) of bio-based materials in the non aqueous phase. It does not contain solvents and mineral oils, and is compliant with numerous food contact regulations.

"This new defoamer highlights our commitment to support customers in developing more environmentally friendly and resource-efficient coating and inks formulations. With its truly unique property profile, TEGO® Foamex 8880 is an ideal choice for pigmented, waterborne flexo and gravure inks that are printed on paper or cardboard substrates," says Thurau.

Evonik's Coating Additives business line has a comprehensive portfolio for printing inks as well as a wide range of products to enhance coating and paint formulations in the automotive, architectural, industrial and other applications.

Source : Evonik

COBURN TECHNOLOGIES, SDC TECHNOLOGIES LAUNCH PHOTOCHROMIC LENS PROCESSING SYSTEM FOR OPTICAL LABS

Mitsui Chemicals, Inc. (Tokyo: 4183; President & CEO: HASHIMOTO Osamu) today announced that its U.S.-based group companies SDC Technologies, Inc. (Irvine, California; President & CEO: Richard CHANG) and Coburn Technologies, Inc. (South Windsor, Connecticut; President: Alex INCERA) have launched a new photochromic lens*1 processing system for optical labs as of September 2023.

The new system is the first product created as a collaborative effort between Coburn and SDC, combining the former's coating equipment know-how with the latter's coatings expertise.
*1 Photochromic lenses utilize photochromic technology to alter their light transmittance based on the amount of UV rays present. This allows them to serve as sunglasses in outdoor environments with strong sunlight and as clear lenses in indoor environments protected from UV rays.

Optical labs currently maintain a large inventory of photochromic lenses to ensure compatibility with various materials and colors, allowing them to supply glasses retailers with products that meet their needs in a timely fashion. Now, however, the introduction of this new system will make it possible to produce photochromic lenses on demand, helping optical labs to downsize their inventories and improve their productivity. Photochromic lenses created using this system also darken and lighten quickly, and offer excellent performance in metrics such as abrasion resistance.

Source : Mitsui Chemicals

PROMAN, MITSUBISHI SIGN MOU TO DEVELOP WORLD-SCALE ULTRA LOW-CARBON AMMONIA PLANT IN LAKE CHARLES, USA

WOLLERAU, Switzerland, Oct. 17, 2023 /PRNewswire/ -- Proman has signed an MoU with Mitsubishi Corporation to explore building a world-scale ultra low-carbon ammonia facility in Lake Charles, Louisiana. The proposed plant would produce approximately 1.2 million tonnes per year of clean ammonia by incorporating state-of-the-art carbon capture and sequestration technology.

The proposed ultra low-carbon ammonia facility will be located on Proman's existing site in Lake Charles, adjacent to Proman's natural gas to methanol plant which is also under development.

Welcoming the agreement, Proman Chief Executive David Cassidy said, "We are delighted to be developing this world-scale ultra low-carbon ammonia facility with Mitsubishi Corporation. Proman is already a leading fertilizer producer, and we are committed to expanding our global production to drive forward ammonia's critical role as a fertilizer, fuel and decarbonised future energy source. Once completed, this state-of-the-art plant with industry-leading carbon capture technology will be a major step towards meeting the growing demand for ammonia as a clean fuel. We are honoured to be partnering with Mitsubishi on this."

The Signing Ceremony between Proman and Mitsubishi Corporation took place at the Third International Conference on Fuel Ammonia (CFA), organised by Japan's Ministry of Economy, Trade and Industry. Ammonia produced at the facility will be primarily exported to Japan as a clean fuel to reduce emissions from coal-fired power plants, in line with Japan's national strategy to grow domestic ammonia consumption to help achieve its decarbonisation goals.

Source : PRNewswire

INDUSTRY'S LARGEST LIBRARY OF COLORS NOW FULLY INTEGRATED INTO SHIMA SEIKI DESIGN SYSTEM WITH COLOR ATLAS BY ARCHROMA®

Pratteln, Switzerland, 17 October 2023 - Archroma, a global leader in specialty chemicals towards sustainable solutions, and Shima Seiki, a leading provider of computerized flat knitting machines and digital design systems, have expanded their partnership to bring the industry's largest library of colors for cotton and polyester to the SDS®-ONE APEX design, planning and virtual sampling system and APEXFiz® (hereafter SDS®-ONE APEX series) subscription software.

Now offering a total of 5,760 color references, SDS-ONE APEX series has added all 1,440 colors for polyester from The Color Atlas by Archroma® to its color library of 4,320 Color Atlas colors for cotton poplin. The new polyester collection ranges from neutral earth tones to vibrant jewel tones and on-trend fluorescent colors, with shades suitable for sportswear, fashion, home furnishings, automotive textiles and more.

"Our SDS®-ONE APEX series users have embraced the accuracy and convenience of the Archroma Color Atlas for cotton coloration since 2020," a representative from Shima Seiki said. "By expanding our collaboration with Archroma to polyester colors, we are further empowering our users with color inspiration and streamlined product development."

The extended color library in SDS®-ONE APEX series will help designers and manufacturers to visualize and evaluate their design choices on realistic fabric simulations and then put them into production with dyes and finishes that meet their desired sustainability profile. The Shima Seiki system also offers a smooth transition to machine programming for quick and accurate production, reduced waste and accelerated time to market.

Each of the 5,760 Color Atlas color references in the SDS®-ONE APEX series design software is available as a physical color standard that includes precise dyeing recipes and compliance data, as well as access to expert technical support from Archroma around the world.

"Polyester remains the most popular choice across many textile segments where high performance is a must. Users of Shima Seiki's advanced SDS®-ONE APEX series platform will now be able to select from the industry's largest library of colors for both cotton and polyester and, more importantly, trust that their choice can be reliably executed," Chris Hipps, Head of Strategic Business Development, Archroma Color Management, said.

"Our colors are formulated with dyes that comply with international eco-standards and work with Archroma's groundbreaking coloration systems, like FAST SPORT," he continued.

Source : Press Release

STARTING INTO A PTFE-FREE FUTURE - WITH A NEW TEXTURING AGENT FOR POWDER COATINGS

MUTTENZ, October 31, 2023 - Clariant is committed to bringing solutions to market that improve the overall health and well-being of society. In line with that commitment, Clariant has developed Ceridust® 8170M; a PTFE-free alternative texturing agent for powder coatings that delivers performance without the negative aspects of PTFE.

Our innovation journey begins with the customer in mind. This sums up the approach of the new Coatings Innovation Center in the Charlotte metro area. It is about addressing the challenges faced by North American formulators in the paints and coatings industry. Completed in late 2023, this new innovation center was designed to enable us to work collaboratively with our customers all along the value chain. It is equipped with state-of-the-art technology including a spray booth and accelerated weathering chambers. With this, Clariant is able to test every performance detail of new formulations from scrub, sag and leveling to color acceptance. This new lab will also be able to support compliance with regulatory and sustainability specific requirements. In this way, Clariant is supporting our customers with high-performing products and solutions that can accelerate their success and meet the changing needs of the market.

Powder coating without PTFE : We all know about the convenience of how nothing sticks to coated pans. In fact, this anti-adhesive material was not, as many assume, discovered in space research but is a substance called PTFE. PTFE was developed in 1938 by Dr. Roy Plunkett, an employee of the chemical company, DuPont. But still, it did find its way into space later - as insulation material for cables, such as in the Apollo missions.

PTFE's unique properties have enabled its growth into many other areas, such as powder coatings. Thus, when it comes to decorating and protecting a window frame, a fence or a bike, a PTFE-containing powder coating was – up to now – the go-to-choice. PTFE can enhance the scratch resistance and slip performance or act as a texturizing additive, providing powder coatings with the right consistency and stability for many applications.

However, there are increasing concerns about PTFE's impact on human health

& the environment, leading to the consequential legislative action to potentially restrict its use. This has resulted in a call for more eco-friendly and PTFE-free alternatives. Furthermore, if the restrictive policies of EU regulators prevail, PTFE-free solutions will soon become a significant business imperative.

Best of both ideas – answering to the needs of the market

To address this challenge, we've innovated a PTFE-free texturing agent: Ceridust 8170 M. Ceridust 8170 M combines two ideas that have, until now, only existed separately: the texturing qualities of PTFE and the environmental benefits of a PTFE-free alternative. Ceridust 8170 M has the added benefit of reduced energy consumption as part of the powder coating extrusion process. Furthermore, Ceridust 8170 M is compliant with the EU law REACH (Regulation on the registration, evaluation, authorization, and restriction of chemicals) and is not only PTFE- but also PFAS-free.

Source : Press Release

DOW AND EVONIK ANNOUNCE THE SUCCESSFUL STARTUP AND OPERATION OF HYDROGEN PEROXIDE TO PROPYLENE GLYCOL (HPPG) PILOT PLANT

HORGEN, Switzerland, and HANAU, Germany – October 31, 2023 - Dow (NYSE: DOW) and Evonik are proud to announce the successful start-up and operation of a pioneering hydrogen peroxide to propylene glycol (HPPG) pilot plant at Evonik's site in Hanau, Germany. Collaboratively developed by Dow, the world's largest producer of propylene glycol, and globally leading hydrogen peroxide manufacturer Evonik, the plant uses the distinct HYPROSYN® method to enable the direct synthesis of propylene glycol (PG) from hydrogen peroxide and propylene.

"At Dow, we believe in collaborating with our customers and other stakeholders to create, innovate and find solutions to big challenges. So, I am delighted to see this plant become operational through this collaboration," said Andrew Jones, global business director for Chlor-Alkali Vinyl & Propylene Oxide, Propylene Glycol, at Dow. "With this innovative technology and flexible asset and business model, we are well positioned to meet our customers' needs and growing market demand."

"At Evonik Active Oxygens, we put sustainability at the core of futurizing our business. This relies not only on innovative technologies, but also the ability to scale these up and bring them to market," remarked Michael Träxler, head of Evonik's Active Oxygens business line. "That's where excellent strategic partnerships come into play. The startup of this pilot plant in Hanau thus not only represents a major technological milestone in our efforts to make industry more sustainable, it is also a prime example of how cross-company collaboration, like this partnership with Dow, is essential to driving sustainable solutions."

The pilot plant will demonstrate the benefits of the novel technology. In contrast to the traditional process, where propylene is used to make propylene oxide (PO), which is converted to PG through hydrolysis, the HYPROSYN® process uses a novel catalytic system to generate PG directly from propylene and hydrogen peroxide. The integration of all key reaction stages in a single reactor eliminates the need of additional investments in PO capacity and lowers capital requirements. The process also enables a reduced environmental footprint e.g., water consumption is reduced to less than 5% compared to conventional PG methods. In addition, existing PG plants can be retrofitted to benefit from this new technology. Propylene glycol serves as an essential ingredient such as a high-performing additive, intermediate, or initiator in a wide range of applications — including industrial, food and animal feed, pharmaceuticals, and cosmetics. Over the next few years, the Dow and Evonik teams will continuously evaluate the plant's operations and capabilities to scale up manufacturing, in support of growing market demand.

Source : DOW

EVONIK LAUNCHES NEW INFINAM® TPA ELASTOMER POWDER MATERIAL FOR SLS 3D PRINTING

- INFINAM® TPA 4006 P optimized for SLS Technologies
- Opening up new consumer goods applications
- Extending existing portfolio of elastomer materials

Marl, Germany. Evonik is extending its portfolio of elastomeric materials for powder bed fusion 3D printing technologies. The specialty chemicals company is launching with INFINAM® TPA 4006 P a new powder grade that is especially optimized for all types of open source SLS 3D printing machines. Evonik will present its new flexible material during the Formnext trade show, Frankfurt am Main Germany, November 7-10, 2023 in hall 12.1 at booth C39.

INFINAM® TPA 4006 P is a PA12 elastomer consisting of polyamide 12 segments and softening segments and is characterized by rubber-like properties and outstanding impact strength and thus excellent rebound behavior.

Evonik's new 3D printing elastomer features high process stability and excellent powder flow properties making it perfectly suitable for all types of SLS technologies available on the market today. Furthermore, the new fine powder can be manufactured with reusability rates of 50/50 virgin vs. used material.

EXCELLENT REBOUND BEHAVIOR MEETS FOOTWEAR APPLICATIONS

"Elastomer-based 3D printing ap-

plications play a crucial role of the additive value proposition. Mostly like limited editions of infinite designs or high customization they perfectly showcase what 3D printing stands for", says Arnim Kraatz, Director Powder Bed Fusion at Evonik. "By offering new optimized 3D printing materials, we enable our customers to take advantage of the unique set material properties in order to explore and scale up new applications."

3D printed parts from INFINAM® TPA 4006 P show an excellent surface resolution and feature detail while exhibiting outstanding durability over a wide temperature range from -40°C to 90°C. The powder is also ideally suited for manufacturing of functional 3D high-tech plastic parts – for prototypes as well as series products. Furthermore, TPA has been used for decades as material of choice for a variety of consumer goods applications like footwear.
Evonik's range of elastomeric 3D printing materials includes two types of powders for powder bed fusion 3D printing technologies:

thermoplastic amide **INFINAM® TPA**

thermoplastic copolyester **INFINAM® TPC**

INFINAM® FL, a rubber-like photopolymer resin for photo-curing 3D printing completes the current portfolio of elastomeric materials for industrial 3D printing.

DRIVING 3D PRINTING AT SCALE

Evonik's 3D printing activities are bundled in the group's Additive Manufacturing Innovation Growth Field. The strategic focus is on the development and manufacturing of industrial, ready-to-use high-performance materials for all major polymer-based 3D printing technologies. As such, the specialty chemicals company continues to advance 3D printing as a large-scale industrial manufacturing technology across the entire value chain.

Source : Evonik

ARCHROMA CELEBRATES A CENTURY OF SULFUR DYE INNOVATION AT ITS CASTELLBISBAL SITE IN SPAIN

Castellbisbal, Spain, 31 October 2023 - Archroma, a global leader in specialty chemicals towards sustainable solutions, today celebrated 100 years of sulfur dye innovation at its manufacturing and research hub in Castellbisbal, near Barcelona in Spain.

The milestone was marked at an on-site ceremony attended by more than 250 guests, including authorities from the Catalan government, senior Archroma leaders from Spain and overseas, current and former staff, key customers and suppliers and other important stakeholders.

"Delivering consistent product quality and breakthroughs that have shaped the development of sulfur dyes, Archroma Castellbisbal has a heritage of excellence that has stood for a century. The expert team here is now poised to lead the next wave of advancements in the textile industry with a goal to continue to enhance the effectiveness and eco-friendliness of sulfur dyes and dyeing processes," Mark Garrett, CEO of Archroma Group, said. "Archroma remains committed to maintaining Castellbisbal's high standards and to investing in our people and facilities here."
The Castellbisbal site traces its roots back to 1921, when Joan Cardoner Vidal founded a dye manufacturing company that was eventually bought by Sandoz, which was subsequently acquired by Clariant, and later, SK Capital to create Archroma. Its breakthroughs have helped sulfur dyeing technology become a staple in the production of denim, casual wear and workwear fabrics over the past 100 years, with excellent color fastness and cost-efficiency.

Home to a leading research center that has contributed numerous innovations, Castellbisbal is particularly known for the creation of Archroma's DIRESUL® RDT range in the 1980's, which entered the market as the first low sulfide pre-reduced sulfur dyes.

Recently, Archroma developed the cutting-edge DIRESUL® EVOLUTION BLACK which enables a significant impact reduction in the dye synthesis, allowing for the creation of new black denim styles.

Among patented technologies from the Castellbisbal-based research team are the DIRESUL® EarthColors and FiberColors dyes, which use waste from the food and textile industries respectively as raw materials. These revolutionary innovations manufactured at Castellbisbal for customers, brands and retailers, help to advance circularity in the textile industry.

The Castellbisbal site also leads the industry for its rigorous quality control measures, and contributes to the local community by partnering food banks and social service organizations, and collaborating with academic institutions specializing in chemistry. Castellbisbal also produces dyes used for the paper market, including DIRESUL® NATURAL BROWN P and DIRESUL® BLACK PFT.

Source : Archroma

Continue from Page 32

quality of the system for both the contractor and the building owner. Along with durability, flexibility and cost effectiveness, EverMax is a sustainable and environmentally mindful system saving existing membranes from otherwise being removed and replaced. It's a great long-term solution for existing, aged commercial roofs in harsh environments.

The EverMax System consists of a base coat of EverMax Polyurea and a variety of compatible top coats offered by Everest. Everest's Polyurethane Spray Foam is an optional product that can be incorporated. This system can be applied directly over existing membrane after proper surface preparation.

Source : Coatings World

Clariant agrees to acquire Lucas Meyer Cosmetics, a leading provider of high value ingredients for the Cosmetics and Personal Care Industry

- Clariant agrees to acquire Lucas Meyer Cosmetics for a total consideration of USD 810 million (~ CHF 720 million)
- Fully aligned with Clariant's purpose-led growth strategy, strengthens position as a true specialty chemical company
- Will expand Clariant's reach into high value cosmetic ingredients space, based on customer-driven innovation and natural solutions
- Strong strategic fit with complementary customer and product portfolios, geographic footprint, and research capabilities
- Ambition to grow Lucas Meyer Cosmetics annual sales from ~ USD 100 million to ~ USD 180 million by 2028
- Lucas Meyer Cosmetics financial profile accretive to growth, margins, and cash flow; significantly exceeding Clariant's 2025 target metrics
- Closing expected in the first quarter of 2024

MUTTENZ, 30 OCTOBER 2023 - Clariant, a sustainability-focused specialty chemical company, today announced that it has agreed to acquire Lucas Meyer Cosmetics, a leading provider of high value ingredients for the cosmetics and personal care industry, from International Flavors & Fragrances (IFF) for a total cash consideration of USD 810 million (~ CHF 720 million) on a debt-free, cash-free basis, equivalent to an EV/ reported EBITDA multiple (LTM August 2023) of 16.3x. The proposed transaction is subject to regulatory approvals and customary closing conditions and is expected to close in the first quarter of 2024.

"The proposed acquisition of Lucas Meyer Cosmetics marks another major step forward for Clariant's purpose-led growth strategy. It will strengthen our position as a true specialty chemical company, our exposure towards consumer markets, and our footprint in North America, while supporting our goal to accelerate customer- and sustainability-driven innovation. In addition, Lucas Meyer Cosmetics brings a highly experienced leadership team with an excellent track record", said Conrad Keijzer, Chief Executive Officer of Clariant. "By combining our personal care ingredients portfolio with Lucas Meyer Cosmetics, Clariant will become a leader in the high value cosmetic ingredients space, one of the most attractive, profitable, and fastest-growing specialty chemicals markets. With this step, we will build on our successful track record of pursuing and integrating bolt-on acquisitions to enable value creation and profitable growth."

"Lucas Meyer Cosmetics represents a significant, exciting growth opportunity for Care Chemicals. It is a perfect fit with our business, given the complementarity of our customers and products. Combining our respective strengths, including the R&D and innovation capabilities of Lucas Meyer Cosmetics, backed by a strong brand, will enable us to deliver a strong increase in annual sales to USD 180 million in 2028 from around USD 100

million currently. We look forward to welcoming our new colleagues after closing and leveraging our respective capabilities, expertise, and passion," said Christian Vang, President of the Clariant Business Unit Care Chemicals and the Americas region.

Lucas Meyer Cosmetics, founded in 1999 and headquartered in Québec, Canada, is a leading player in the high value active and functional cosmetic ingredients market. Lucas Meyer Cosmetics' competitive edge stems from its superior marketing and innovation capabilities, including global R&D and regional application centers, which translate into strong financial performance with ~ USD 100 million of revenues (~ CHF 90 million) and highly attractive profitability. The business is also highly cash generative due to its asset-light model and outsourced production. In addition, Lucas Meyer Cosmetics has a unique customer-centric business model, resulting in strong brand recognition among customers around the world.

Strong strategic and financial rationale

The acquisition is underpinned by a compelling strategic rationale given Clariant's and Lucas Meyer Cosmetics' complementarity in customer portfolio, product portfolio, regional strongholds and capabilities in R&D and marketing, making the combination of Clariant and Lucas Meyer Cosmetics a uniquely positioned solutions provider for high value personal care brands. The proposed transaction allows Clariant to further transform its portfolio towards high-growth, high-margin and highly cash generative specialty chemicals businesses and consumer end-markets underpinned by accelerating demand for natural and sustainable products. It will increase Clariant's exposure to the active and functional cosmetic ingredients market and strengthen its North America presence in the Care Chemicals business unit.

The transaction will create considerable value for Clariant's shareholders. With ~ 10 % sales growth[1], outstanding profitability and high cash conversion, Lucas Meyer Cosmetics is accretive to Clariant's growth, margin and cash flow profile and exceeds Clariant's financial target metrics for 2025. The transaction is expected to be mid-single digit percentage accretive to EPS[2] from year one onwards. Given the strong strategic fit and high complementarity of the businesses, Clariant's ambition is to grow Lucas Meyer Cosmetics' annual sales from ~ USD 100 million to ~ USD 180 million by 2028.

Financing and expected timetable

The funding for the acquisition has been secured by a fully committed bridge facility which is intended to be refinanced soon after completion. On completion, Clariant's net leverage is expected to moderately increase to ~ 2.8x times EBITDA including pension and lease liabilities, preserving the Group's prudent capital structure and balance sheet strength. Clariant expects no change to its investment grade credit rating.

Source : Press Release

Solvay Launches New SolvaLite® Grade for Superior Flame Retardancy in Battery Enclosures

Atlanta, Georgia, USA, October 24, 2023 - Solvay, a leading global supplier of specialty materials, has announced the launch of SolvaLite® 716 FR, an innovative fast-curing epoxy prepreg system designed for a wide range of structural parts and reinforcements in premium battery electric vehicles (BEVs).

"The automotive industry sees a need for new material solutions for battery components with superior flame retardancy compared to conventional thermoset prepregs and aluminum, and which allow passengers sufficient escape time in the event of a thermal runaway," explains Stefano Montani, Transportation Marketing Manager at Solvay. "Structural battery housing solutions must also ensure reliable EMI shielding performance and enable efficient processing of large volumes at high production rates. Our new SolvaLite® prepreg combines all these properties with a significant lightweighting potential compared to incumbent solutions."

SolvaLite® 716 FR is primarily targeted at flame-retardant battery enclosure applications for premium and super-pre-

mium BEVs. It has a dry glass transition temperature (Tg) of 145°C (293°F) and has shown to outperform aluminum and discontinuous fiber composites in practical UL 2596 flammability tests by providing protection at a wall thickness of 2mm. Beyond the automotive industry, the new material also opens up a wide potential for other components where fire safety is key to meeting general UL94 V-0 specifications.

This system is designed for rapid curing, offering a press cure time of eight minutes at 150°C (302°F); with higher temperature and shorter cycle time capability designed to help converters achieve more efficient production routes, such as Solvay's proprietary Double Diaphragm Forming (DDF) technology.

SolvaLite® 716 FR is available in a carefully selected range of formats and continuous fiber types aimed at meeting the most demanding mechanical requirements, under worst-case loading conditions, minimizing component thicknesses and optimizing enclosure volume for increased volumetric energy density or vehicle z-height.

SolvaLite® 716 FR will be commercially available by the end of 2023 and will be officially launched at the upcoming CAMX Composites and Advanced Materials Expo in Atlanta from October 30 to November 02, where Solvay will be exhibiting at booth W46.

In addition, Stefano Montani and Solvay's Senior Customer Technical Development Engineers Dhaval Jetavat and David Hulme will host a webinar on Fast-Cure Epoxy Solutions for High Volume Battery Enclosures and Body Panels at 17:00 hours CET on November 30, 2023.

Source : Press Release

Sabic Debuts Higher Pcr Content LNP™ ELCRIN™ Copolymer Resin With Enhanced Performance

SABIC, a global leader in the chemical industry, today launched a new portfolio of 10 LNP™ ELCRIN™ copolymer resins that can reduce carbon footprint while delivering desirable performance properties and aesthetics. Adopting these polycarbonate (PC)-based copolymer materials, which contain up to 75 percent certified post-consumer recycled (PCR) content, can help customers advance their sustainability initiatives without sacrificing key attributes. Compared to competitive impact-modified PC resins containing PCR content, which can have performance limitations, the new LNP copolymer resins deliver high performance across the board. Depending on the grade, they may provide low-temperature ductility, chemical and weathering resistance, good flow for easy processing, transparency, a broad color space, UV stability and thin-wall flame retardance (FR) meeting the UL94 V-0 rating at 0.6mm.

"Specialty thermoplastics formulated with mechanically recycled content are an important part of SABIC's net-zero strategy," said Joshua Chiaw, Director, Business Management, LNP & NORYL, Specialties, SABIC. "Our new LNP copolymer resins offer customers across multiple industries fresh opportunities to significantly increase the amount of PCR content in their applications. This is the latest example of how SABIC leads in sustainable solutions that can help our customers meet growing demands for circularity from regulators, OEMs and the public."

Upgraded Copolymer Resins Containing PCR Content

The new LNP copolymer resins represent a significant upgrade to SABIC's existing portfolio of materials that were previously made with PCR content. They contain higher percentages of PCR content (50 to 75 percent) than previous products, and this content is certified by SCS Global Services. Also, they offer enhanced properties such as a wider color range for opaque materials, several transparent options and more FR choices. All FR grades in the new portfolio have received UL Solutions Yellow Cards.

One of the newly upgraded materials includes LNP ELCRIN EXL9253RCC copolymer resin, which contains 50 percent PCR content to reduce carbon footprint, while delivering excellent mechanical performance. This opaque material provides robust low-temperature ductility down to -30°C, good chemical

resistance and weatherability, thin-wall FR (UL94 V0 @ 1.0mm) and a wide color space.

The sustainable LNP copolymer resins can significantly reduce carbon emissions vs. virgin PC materials while serving as drop-in replacements. For instance, LNP EXL1484RCC resin, a non-FR grade containing 75 percent PCR content, reduced global warming potential (GWP) by 53 percent compared to SABIC's virgin PC resin, while providing comparable flow and mechanical properties. Another new grade, flame-retardant LNP EXL7284RCC resin, also containing 75 percent PCR content, lowered GWP by 55 percent compared to virgin PC. Both GWP results are based on internal life cycle assessments.

In addition, the new LNP copolymer resin grades surpass competitive modified PC grades made with recycled content. While these competitors may contain similar percentages of PCR material, they can only deliver one or two of the enhanced properties offered by the SABIC grades.
Jenny Wang, Director, Formulation and Application, APAC, Specialties, SABIC, explained, "We overcame a dual challenge: incorporating high percentages of recycled content into these new materials while maintaining excellent properties. Thanks to the expertise of our team and our highly efficient copolymer chemistry, our new upgraded LNP materials achieve both the high PCR content and high performance including flame retardant as well as mechanical strength that our customers expect."

Potential for Use in Multiple Industries

SABIC's upgraded LNP copolymer resins may be candidates for applications such as housings of consumer electronic devices and chargers, enclosures for 5G base station infrastructure and industrial components such as circuit breakers. In automotive, they have the potential to be used for exterior grilles, pillars and trim.

Source : Sabic

Toray Develops TORAYCA™ T1200, the Ultra High-Strength Carbon Fiber

Morgan Hill, California (October 29, 2023) — Toray Industries, Inc. announced today that it has developed TORAYCA™ T1200 carbon fiber, the world's highest strength at 1,160 kilopound per square inch (Ksi). This new offering will move us forward to reducing environmental footprints by lightening carbon-fiber-reinforced plastic materials. This fiber also opens a new performance frontier for strength-driven applications. Its potential applications range from aerostructures and defense to alternative energy and consumer products.

As carbon fiber products have proven their value and become more commercialized, the supply of high-strength carbon fiber has increased globally. Pushing this performance frontier has increased the demand for specialty applications. Toray set about refining its proprietary nanoscale structural control technology to design and achieve an internal structure that resists damage.

Leveraging this fundamental technology led Toray to develop TORAYCA™ T1200 in its new facility within the Ehime Plant (in Masaki-cho, Ehime Prefecture). T1200 has a tensile strength of up to 1,160 Ksi, more than 10% higher than TORAYCA™ T1100, which currently has the highest tensile strength available. T1100 applications include defense weapon systems, space, aircraft, and sports and leisure equipment.

Toray began the commercial production of TORAYCA™ carbon fiber in 1971 at the Ehime Plant and diver-

Product name	Tensile strength (GPa)	Tensile modulus (GPa)	Strain at failure (%)	Yield (g/m)	Density (g/cm³)	Filament count
T1200	8.0	315	2.5	0.48	1.82	12,000
T1100	7.0	324	2.2	0.48 1.01	1.79	12,000 24,000
T800S	5.9	294	2.0	1.03	1.80	24,000

sified the application into compressed natural gas and high-pressure hydrogen tanks, automobiles, aircraft, and sporting equipment. In 1986, Toray developed TORAYCA™ T1000 and further expanded carbon fiber's potential by commercializing TORAYCA™ T1100. Toray remains a global leader, with both carbon fibers exhibiting the highest strength available worldwide.

As part of the Toray Group's Sustainability Vision, the company committed itself to providing innovative technologies and advanced materials that contribute to sustainable progress. TORAYCA™ T1200 embodies the Toray Group's vision for balancing greenhouse gas emissions and absorption worldwide. The company will continue to enhance the performance and supplies of TORAYCA™ carbon fiber in keeping with its corporate philosophy of contributing to society by creating new value with innovative ideas, technologies, and products.

Source : Toray

Braskem Takes Polypropylene to the Next Level of Performance in Partnership with WEAV3D® utilizing its Rebar for Plastics® Lattice Technology

Braskem to present its PP solutions with WEAV3D lattice technology at the 2023 SPE® TPO Global Automotive Conference in Detroit, October 1-4.

Braskem (BM&FBOVESPA: BRKM3, BRKM5 and BRKM6; NYSE: BAK; LATIBEX: XBRK), the largest polyolefins producer in the Americas as well as a market leader and pioneer producer of biopolymers on an industrial scale, today announced a novel demonstrator of Braskem's polypropylene (PP) in combination with WEAV3D Inc., an advanced manufacturing and materials startup, leveraging WEAV3D's thermoplastic composite lattice technology to enhance the performance of PP for structural and automotive material applications.

The WEAV3D lattice technology enables lightweight PP parts to replace materials like steel, increasing PP's use in automotive applications by balancing improvements in performance, weight, and cost. The combination of Braskem PP sheets with WEAV3D's Rebar for Plastics will allow Braskem to compete in new structural material end-markets.

"We're excited to offer our clients new innovations and partnerships around high-performance polypropylene materials utilizing the WEAV3D lattice technology. As the automotive industry continues to roll out new electric vehicle designs, it requires automakers to re-think the vehicle design with cutting-edge performance materials. With significant improvements in lightweighting, reduced costs, and higher material efficiency, combining Braskem's PP portfolio with WEAV3D composite lattices provides a 'win-win' in terms of enhanced material performance and a more sustainable environmental impact, including the integration of natural fiber options," Amanda Zani, Technology Platform Manager, Braskem.

Benefits of using WEAV3D's Rebar for Plastics® and Braskem Polypropylene vs. conventional composite organosheet:

LIGHTWEIGHT - Reduces sheet blank weight by ~50% and final part weight by ~20%
COST EFFECTIVE - Reduces costs by ~50%

EFFICIENT - Increases sheet yield from 25% to 45% by weight, resulting in a 63% reduction in trim waste

"Braskem has been a fantastic part-

ner throughout this project and really demonstrated a strong commitment to sustainable materials innovation," says Chris Oberste, President of WEAV3D. "Leveraging Braskem's diverse polypropylene portfolio and deep technical expertise, we worked collaboratively with the Braskem team to identify the right combination of Braskem PP and reinforcing lattice material in order to minimize cost and maximize performance, while achieving formability and sustainability goals."

Braskem will exhibit at the Society of Plastics Engineers (SPE) TPO Global Automotive Conference in Troy, Michigan from October 1-4, 2023, where they will meet with attendees to discuss the benefits of Braskem and WEAV3D's lattices with leading OEMs, suppliers, and the entire polyolefins value chain community.

Source : Braskem

Covestro Launches Mechanical Recycling Polycarbonate Compounding Line in China

- Shanghai facility is the inaugural dedicated line of its kind of Covestro with an annual capacity of 25,000 tons
- Committed to supplying 60,000 tons of recycled-content polycarbonates annually in Asia Pacific by 2026
- Expansive range of premium recycled polycarbonates facilitating diverse applications
- Yearly polycarbonate production capacity in Asia-Pacific grows by more than 100,000 tons

Covestro has commenced operations at its first dedicated mechanical recycling (MCR) compounding line for polycarbonates at its integrated site in Shanghai, China. This line is set to produce over 25,000 tons of premium-quality polycarbonates and blends containing mechanically recycled materials annually, in response to the growing demand for post-consumer-recycled (PCR) plastics, particularly in applications within the electrical and electronic products, automotive, and consumer goods sectors.

"The launch of our MCR production line marks another significant stride in our journey towards achieving a circular economy and operational climate neutrality by 2035," said Sucheta Govil, Chief Commercial Officer of Covestro. "Plastic waste recycling is pivotal in realizing this vision, and through the expansion of our recycled plastics production capacity, we aim to lead the way in driving sustainability across diverse industries."

Covestro is committed to supplying over 60,000 tons of recycled-content polycarbonates annually in the Asia Pacific region by 2026, in response to robust market demand. Recently, the company also transformed an existing compounding line at its Map Ta Phut site in Thailand for mechanically recycled polycarbonate.

"These investments enable us to meet the rising demand for PCR polycarbonates, enhancing our capacity and efficiency. With new or repurposed capacity now operational, we are better positioned to assist our downstream customers in their journey towards more sustainable products, expediting the transformation of industries towards a circular and climate-neutral future," said Lily Wang, Head of Covestro's Business Entity Engineering Plastics.

A broad range of PCR portfolio

The demand for such materials is surging on a global scale, driven by regulatory initiatives like the European Union's proposed Directive on end-of-life vehicles (ELV Directive), which sets strict benchmarks for the utilization of recycled plastics. Furthermore, industries like consumer electronics are poised for increased demand for recycled materials, especially those with a substantial recycled content.

These market dynamics underscore the significance of Covestro's recent developments in providing PCR polycarbonates. Earlier this year, the company unveiled a polycarbonate boasting 90 percent recycled content. This grade not only attains outstanding whiteness and highly saturated colors but also touts a sustainable feature – a 70 percent reduction in carbon footprint compared to its

fossil-based virgin plastic counterpart. Achieving this remarkable accomplishment requires a meticulous selection of high-quality recycled materials and precise optimization of material composition during the compounding process.

Furthermore, Covestro is actively engaged in pioneering the chemical recycling of polycarbonates. Having successfully developed an innovative process within the laboratory, the company is now embarking on the technical implementation of this breakthrough at a pilot scale.

Expansion of polycarbonate production capacity in Asia Pacific

After debottlenecking multiple production lines at the Map Ta Phut site in Thailand, Covestro is nearing the final stages of a program to enhance polycarbonate production capacity and capabilities across the Asia-Pacific region. This program also includes the addition of new production lines at sites in Shanghai and Guangzhou, China, as well as Greater Noida, India, in recent times. The combined additional capacity now exceeds 100,000 metric tons annually. These strategic projects, aimed at optimizing the regional production network, have been supported by using digital tools, which also reduced investment costs.

"In this way, we aim not only to meet the growing demand for polycarbonate in Asia, but also to offer our customers there an improved product quality," says Dr. Nicolas Stoeckel, Head of Operations in the Business Entity Engineering Plastics. "Depending on demand, the upgrades can be used for compounding recycled or conventionally produced polycarbonate." Therefore, both projects are also about improving Covestro´s ability to produce more plastics with higher recycled content.

Source : Covestro

Trumpler Partners with Archroma to Launch Revolutionary Tanning Process for Leather Production

Worms, Germany, and Pratteln, Switzerland, 25 October 2023 - Trumpler, a leader in leather chemicals since 1868 has teamed up with Archroma, a global leader in specialty chemicals with a focus on sustainable solutions, to offer a groundbreaking leather production process that can be used to produce high-performance leather in a more eco-friendly and cost-efficient way.

DyTan®, the new process combines innovations from Archroma and Trumpler to offer an alternative to existing metal-free and chrome-tanned leather. It enables the reliable production of leather with impeccable shavability, excellent color depth and outstanding migration and abrasion resistance. Free from metal salts and reactive aldehydes, DyTan® is suitable for a wide range of leather applications, from garment and footwear to automotive and furniture upholstery, for today's eco-conscious leather producers and consumers.

At the core of the DyTan® process is Archroma's patented revolutionary AVICUERO® System, which is based on novel molecules that enable more sustainable leather tanning and dyeing, developed by Archroma in cooperation with leather technology consultant Dr Leather. It enables collagen fibers in the leather to be covalently cross-linked through a simplified process at low temperatures. As a result, the system shows strong potential to save energy and water, while also reducing process time and CO2 emissions by up to 23%.*

The DyTan® process combines the AVICUERO® System with Trumpler's bio-based fatliquors and retanning agents based on functional biopolymers produced from hydrolyzed shavings – resource-saving technology that Trumpler has been refining for 15 years.

"Our collaboration with Archroma has made it possible to rethink traditional methods of leather production and to develop a pioneering alternative," explains Hein Vugs, Managing Director of the Trumpler Group. "Our vision is to lead the leather industry to a more consciously sustainable future without compromising on quality or efficiency. With DyTan® and AVICUERO®, we are proud not only to achieve our ecological goals, but also to enable our customers to realize noticeable cost

savings."

"With the aim of bringing a new state-of-the-art solution to the leather industry, Archroma and Trumpler share a commitment to innovation, sustainability and customer satisfaction," Mark Garrett, Archroma Group CEO, says. "Leveraging the AVICUERO® System, the new DyTan® process represents a significant milestone in the history of leather production, bringing remarkable operational and end-use benefits to help uplift the industry as a whole."

As an exclusive global partner of Archroma, the Trumpler Group is responsible for the distribution of the AVICUERO® System worldwide. Delivering technical support and first-class customer care, Trumpler will help leather manufacturers and brands to implement sustainable tanning and draw on its comprehensive product portfolio and process knowledge of tanning, retanning and fatliquoring processes.

* Estimations carried out with the Archroma ONE WAY Impact Calculator show energy savings of up to 25% and reduced process time leading to a reduction in CO2 emissions of up to 23%, compared to traditional chrome tanning1. They also show significant water savings compared to other metal-free tanning systems[1]. With the ONE WAY Impact Calculator, customers will be offered personalized calculations for their specific processes.

AVICUERO® is a trademark of Archroma registered in many countries.
DyTan® is a trademark of Trumpler registered in many countries.

[1] Trials made at Trumpler GmbH application lab. [1] Trials made at Trumpler GmbH application lab.

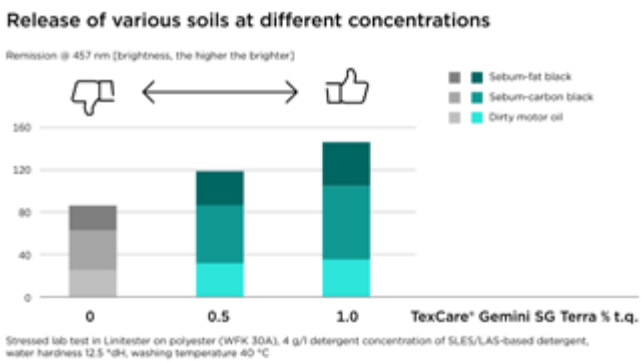
Source : Archroma

Clariant Introduces Texcare Gemini SG Terra Game-Changing Soil Release Polymer for Laundry Applications with Innovative Rheology Control

- Exclusive soil release polymer technology that simplifies formulators' lives by eliminating the need for additional thickeners
- Provides excellent extra cleaning benefits for improved cleaning power of laundry detergents
- High renewable carbon content enables high-performing eco detergents

MUTTENZ, October 25, 2023 - Clariant has unveiled its latest innovation for laundry liquid applications, TexCare Gemini SG Terra, which provides formulators with "one product, double function", offering a high-performing soil release polymer that keeps the rheology of the detergent under control.

Thickening agents are widely used in liquid laundry detergents to adjust the rheology and characteristics of the detergent, to provide consumers with convenient and easy-to-use products. In formulations with challenging viscosity profiles, polymers are often used as thickening agents, which provide no other functions but add cost and complexity to formulations and are typically not biodegradable and harmful to aquatic life.



With Clariant's long record of innovation in the laundry liquid detergents category and history of constantly broadening the range of products on offer, the company developed TexCare Gemini SG Terra, a leading-edge solution in the soil release polymer category for hard-to-thicken detergent formulations, making supplementary thickeners obsolete.

"Clariant's TexCare range is a long-established technology helping laundry brands to launch detergents that provide consumers with top results in stain removal, prolong the life of clothing and wash at reduced temperatures without performance compromises," said Mike Haspel, Head of Personal & Home Care at Clariant.

"With TexCare Gemini SG Terra, customers have a choice of soil release

polymers to meet specific formulation needs when rheology control is a challenge. In addition, as part of Clariant's sustainability transformation, this multifunctional polymer category is now offered with a high renewable carbon content," he continued.

In addition to its rheology control technology and easy use, the new polymer delivers superior secondary wash performance on polyester-containing fabrics. As with other TexCare grades, it meets high sustainability standards: at first, introduced as part of Clariant's Terra range, it has a renewable carbon index (RCI) of 80%. Furthermore like all TexCare grades, it allows for colder and shorter wash cycles, that provides increased convenience, reduced water usage and lower energy consumption for the consumers benefit. All of which also helps make clothes last lost longer, further supporting today's sustainability-minded and cost-conscious consumer lifestyles.

For more information on TexCare Gemini SG Terra please visit Clariant's booth 454 at the Sepawa Congress, Wednesday 25th October in Berlin and look out for Dr. Silke Quester, who will be presenting TexCare Gemini SG Terra at the Forum for Innovation, Room 12+13 at 9.00 on Wednesday 25th October.

Source : Clariant

AkzoNobel uses Rapeseed and Pine Rosin to create first Bio-Based Interior Coating for KIA Motor

KIA Motors is using bio-based paint supplied by AkzoNobel for the inside of its new EV9 electric SUV. It's the first time the vehicle manufacturer has specified an interior bio-based coating.

Two kinds of bio-rosin (rosin is a solid form of resin) have been used to create the product, one extracted from rapeseed, the other from pine rosin. The paint can be found on the EV9's interior door switch panels, with AkzoNobel also supplying coatings for the rest of the interior.

"Both companies have a long history of developing more sustainable products and we're proud to have played a role in helping KIA Motors achieve a notable production landmark," says Patrick Bourguignon, Director of AkzoNobel's Automotive and Specialty Coatings business.

As well as obtaining 100% color master approval, the bio-based paint being used on the EV9 also meets all of KIA Motors' requirements for both chemical and physical resistance (against suncream, air freshener, heat and scratches, for example).

"KIA Motors had a very specific coating requirement for the EV9 and the performance of our bio-based product met all their needs," continues Bourguignon. "It's the latest example of how we as a business continue to develop advanced coatings technology that minimizes environmental impact, without compromising on quality."

AkzoNobel has been a proud partner of KIA Motors for ten years, and while this new agreement is currently limited to EV9 models produced in South Korea, it's expected to be extended to several of the vehicle manufacturer's upcoming EV models.

Source : AkzoNobel

WACKER Presents Hydrophilic Silicone Active for Household Fabric Softeners

Munich, Oct 25, 2023 At the 70th SEPAWA Congress in Berlin, Germany, WACKER is unveiling its new LIOSIL® FC 3300 E silicone emulsion to a broad technical audience. The product was developed as a highly efficient additive in household fabric softener formulations. Its active silicone ingredient strengthens the product's softening ef-

fect and makes clothing absorbent and easy to iron. This year's SEPAWA Congress will take place October 25 – 27.

LIOSIL® FC 3300 E, an emulsion containing a high concentration of actives, complements the chemical group's portfolio of silicone products designed for fabric softener production. LIOSIL® FC 3300 E is an odor- and colorless opaque product that is very easy to work with. It simply needs to be stirred into the formulation at the end of the fabric softener manufacturing process. One outstanding feature of the new emulsion is that it combines multiple properties of the existing product line.

The active ingredient of the new emulsion is an aminofunctional silicone polymer to which polyether groups have been added to make it hydrophilic, i.e., to give it an affinity to water. It follows that fabric softeners formulated with LIOSIL® FC 3300 E improve the wetting properties of the fibers and allow the fabric to absorb more water. As a result, fabric softeners like these can also be used in applications where rapid moisture absorption by the fabric is especially important. Like classic silicone actives, the LIOSIL® FC 3300 E silicone polymer also reduces friction, lending textiles an extraordi¬nary soft hand and making clothing easier to iron.

All three effects – the typical soft hand of silicones, easy ironing and absorbency – play out on cotton and synthetic fibers alike. LIOSIL® FC 3300 E avoids the pitfall of many commercially available fabric softeners, i.e., that they make fabric hydrophobic, causing laundry to repel water. Instead, it allows cotton to retain its absorbency, while making synthetics absorbent as well. This means that LIOSIL® FC 3300 E opens the door to a new generation of fabric softeners that can be specifically tailored to consumer preferences.

WACKER will be doing more than simply exhibiting at this year's SEPAWA Congress. On Friday, October 27, silicone experts Christof Brehm and Peter Horvath will hold a talk on fluorine-free impregnation, in which they demonstrate that the effect of impregnation with silicones rivals that of products containing fluorine-based ingredients (Forum for Innovation – Home Care, room 12 + 13, 9:30 – 9:45 a.m., "Silicones leave no one out in the rain – fluorine-free impregnation, Part II").

Source : Wacker

DIC India Launches Mobile App for Ink Printer & Converter Customers

NEW DELHI, INDIA: DIC India said it has launched its first-ever mobile application in India called DIC India Ink Master app, to provide Indian customers a unique platform to address their day-to-day operational queries.

With physical channels of interaction witnessing a decline in the wake of the pandemic, digitization has becoming the new normal for both consumers and businesses. Hence, to offer a bilateral communication platform to its customers, DIC India has introduced a self-help mobile application, which is a part of the company's holistic digital engagement strategy.

Developed mostly to address the needs of the local ink industry, DIC India Ink Master app lists down possible operational problems and solutions related to lamination adhesive, news inks, flexographic, gravure, offset printing etc. faced by a printer or a converter.

Additionally, the app will also offer a dedicated section called 'Raising a Query' that will allow customers to request for guidance on new problems faced by them. In order to provide a seamless and timely response to the users, the app will be monitored 24X7 and 365 days by an assigned team at DIC India.

"The pandemic has forced businesses across sectors to adopt digital first approach. More than ever now, we are living in a contactless world wherein the majority of interactions with both customers and partners have now moved virtually," said Manish Bhatia, managing director & CEO, DIC India.

"With the launch of the

DIC India Ink Master mobile app, we are positive that the Indian printer & converter community will greatly benefit, thereby giving them a gain competitive edge. Through this app, we will address our customer's present and future concerns w.r.t activation or maintenance of their printing presses etc," he added.

Recently, to create mindshare of the Indian customers across Indian subcontinent about the toluene ban announced by The Bureau of Indian Standards (BIS) for food packaging, DIC India leveraged its digital initiative called DIC Konnect. Under this flagship initiative, the company hosted a series of webinars, which were organized with an aim to guide customers about the best industry practices to restart their printing process post the lockdown, address their concerns as well as demonstrate the company's robust product portfolio. The DIC India Ink Master mobile application is an extension of the DIC Konnect initiative undertaken by the company.

Source : DIC

Clariant to showcase new portfolio of industrial coatings and PTFE-free additives at ChinaCoat 2023

- **Clariant showcasing new portfolio of wetting and dispersing agents for water-based formulations dedicated to industrial coating applications in containers, transportation and construction**
- **Growing portfolio of PTFE-free additives on display offer safer, more sustainable options for paints and coatings**

SHANGHAI, November 15, 2023 - ChinaCoat 2023 in Shanghai sets the stage for Clariant to showcase its latest solutions dedicated to more sustainable and effective formulations and coating applications that help safeguard public health and the environment.

New portfolio of wetting and dispersing agents for industrial coatings applications

The coatings industry continues to grow strongly in China, experiencing a strong recovery in the aftermath of the pandemic. This growth is being driven by demand in industries such as export and construction for coating applications that offer both higher efficiency and better performance. To meet these needs, Clariant offers dedicated solutions with features including improved corrosion resistance and reduced formulation viscosity consistently achieved across changing systems.

"At ChinaCoat 2023 look out for our high-performance additives that address various formulation challenges in the fields of 1K acrylic "direct to metal", or DTM, and 2k-epoxy primers or mid-layers, found in applications such as container coatings, transportation and construction equipment. For paint manufacturers of water-based industrial coatings, we offer multi-functional WDAs with higher flexibility according to their requirements," said Sebastian Prock, Clariant's Head of Marketing, Industrial Applications, BU Care Chemicals.

ClariCoat in China – a one stop additive shop

To make it easier to find the right additives Clariant has launched a new Chinese version of its ClariCoat digital platform, also on display at Clariant's booth at ChinaCoat.
The novel web application for paints and coatings specialists who face challenges with their paint formulations provides customized solutions for a holistic range of performance criteria such as liquid paint stability, workability and sustainability. The digital tool is particularly valuable for formulators who want advice on additives as the trend to shift towards water-based paint systems continues in the industry.

Meeting growing demand on PTFE-free solutions

In addition to performance and sustainability, compliance with regulatory requirements is growing concern for the coatings industry as a whole. For example, the use of polytetrafluoroethylene (PTFE) in ink formulations and coating applications has been regulated in the EU, the US and Japan, creating the need for PTFE-free alternatives. Clariant's growing portfolio of PTFE-free solutions are a highlight at ChinaCoat 2023.

"We are excited to share the ongoing evolution of coatings and inks, driven in part by our novel additive solutions, which have given us the choice of PTFE-free alternatives in construction, furniture and other applications. We are proud of our PTFE-free alternatives, like Ceridust® 8170 M, demonstrating our corporate dedication to minimizing environmental impact," says Ray Gonzales, Clariant's Head of marketing Coatings & Adhesives, BU Adsorbents and Additives.

EVENTS AND CONFERENCES

CPHI INDIA

Date: November 28-30, 2023
City: India Expo Centre, Greater Noida, Delhi NCR
Country: India
Website: https://www.cphi.com/india/en/home.html

Description: As the pharma industry looks increasingly towards India for high quality, low cost pharma solutions, CPHI & PMEC India is the ideal event for companies wanting to pick up on the latest trends and innovations the market has to offer.

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.

PAINT INDIA

Date: Feb 22-24, 2024
City: Bombay Exhibition Centre, Mumbai
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.

MIDDLE EAST COATING SHOW

Date: Apr 16-18, 2023
City: Dubai World Trade Centre
Country: Dubai
Website: https://www.middleeastcoatingsshow.com/

Description: With more than 29 years in the industry, the Middle East Coatings Show has established itself as the only trade event dedicated to the coatings industry in the Middle East. For three days, the trade exhibition facilitates serious business and networking opportunities for the coatings community. The event creates the perfect environment for manufacturers, raw materials suppliers, distributors, buyers and technical specialists like formulators from the coatings industry to meet face-to-face and do business. That's not all, the event offers the opportunity to gather insight on the latest processes, exchange ideas with industry leaders and build a strong network in the Middle East and North Africa.

PAINT EXPO GERMANY

Date: Apr 09 -12, 2024
City: Karlsruhe, Germany

EVENTS AND CONFERENCES

Country: Germany
Website: https://www.admetalsurfacetreatment.com/events-stand-attendance/paint-expo/

Description: PaintExpo takes place every other year in Karlsruhe as a showcase for innovations, applications, future technologies and trends covering all aspects of industrial coating. The trade fair spans the entire range of international products and services in the supply chain for industrial coating technology. The wide spectrum of products extends from spray guns, equipment and materials to automation technology. This globally unique get-together of companies from the industry is unparalleled worldwide, making it highly attractive for coating service providers and in-house coating companies from around the world.

CPHI NORTH AMERICA

Date: May 07 -09, 2024
City: Pennsylvania Convention Center, Philadelphia
Country: North America
Website: https://www.cphi.com/northamerica/en/home.html

Description: Join a global network of pharma professionals connected year-round online and in-person. Attend pharma's largest event to discover further learning, innovation, and collaboration. As the exclusive pharma event in the Americas covering the end-to-end supply chain, it's the ONLY place to meet suppliers from all across our industry. Access endless opportunity to grow your business and expand your network at the heart of Pharma!

EXPO PAINT & COATING

Date: Jan 17 - 19, 2024
City: International Convention City Bashundhara – Next To 300 Ft. Purbachal Express Highway, Dhaka,
Country: Bangladesh
Website: https://www.2exhibitions.com/chemical-and-dyes/expo-paint-and-coatings-dhaka/

Description: Expo Paint & Coatings 2024 is a comprehensive Paint & Coatings Exhibition providing platform to the needs of every façade of the coating industry right from raw materials, formulation, application, technology, finishing, quality assurance, recycling and disposal. The Exhibition will feature a wide range display of products, Raw Materials, Application systems, Machines, Tools, current trends, development & innovations shaping future of coating industry.

CHINA INTERDYE 2024

Date: Apr 17 - 19, 2024
City: Shanghai World Expo Exhibition and Convention Center, Shanghai
Country: China
Website: https://10times.com/china-interdye

Description: "China International Dye Industry, Pigments and Textile Chemicals Exhibition"
China Interdye is a premier international show, conducted annually, for the Dyes and Dye Intermediates, Pigments and Textile Chemical industry. It is the perfect meeting point for the exhibitors to reach the global attendees and the perfect medium to know about the recent developments made in these industries.

The Ceridust 8170 M is an innovative PTFE-free texturing agent for powder coatings. It has the added benefit of reduced energy consumption during the powder coating extrusion process and complies with the EU's REACH legislation in addition to also being PFAS-free.

In addition to Ceridust 8170 M, Ceridust 8330 is a feature at ChinaCoat as a PTFE-free alternative with excellent abrasion resistance. This unique bio-based additive, made from a renewable resource, is a breakthrough for various coatings and inks, exhibiting superior rub resistance properties compared to conventional wax-based products. It can be incorporated in both water and solvent-based coating systems and formulations using Ceridust 8330 can achieve similar or superior performance compared to PTFE-containing materials, leading to more efficient ink usage.

Clariant will be exhibiting at booth A01, Hall E4 during the ChinaCoat 2023, 15-17 November at the Shanghai New International Expo Centre. Clariant's team of technology and customer service specialists will be on hand to give full product highlights and answer any questions. For more information, please visit the dedicated Clariant website for ChinaCoat 2023

Source : Press Release

First corporation SRL selects sustainable Luran® S ECO material from INEOS Styrolution

Altare (SV), Italy and Frankfurt, Germany, November 16, 2023 - INEOS Styrolution, the global leader in styrenics, today announced that EdilPlast SRL, part of First Corporation group, has chosen the company's sustainable styrenics solutions for their latest generation of building products. First Corporation group, leader since 1966 in the production of plastic products for buildings, offers a wide range of solutions, from the ground to the roof, entirely made in Italy and distributed throughout the world.
EdilPlast SRL, with the goal of constant innovation and development, has selected INEOS Styrolution's Luran® S ECO materials for Cover Innovation, a new roofing sheet solution.
Luran® S is an ASA (acrylonitrile styrene acrylate) polymer that offers superior long-term performance when exposed to UV light and heat. Its low maintenance and high weather resistance make Luran S the best material for a wide range of outdoor applications. Mixing with PVC or covering over PVC makes it perfect for applications such as roof tiles, gutters or drain down pipes. Luran S ECO is INEOS Styrolution's first sustainable ASA solution with up to 39% lower carbon footprint. The use of these materials will allow EdilPlast to use bio-attributed raw materials from 30% to 50%.

Giulio Mantelli, President of First Corporation Group and creator of Cover Innovation, states: "INEOS Styrolution has allowed us to reduce our ecological footprint by using sustainable materials in our production. Indeed, the new material has proven to be an optimal solution for products exposed to atmospheric agents. Cover Innovation products are a tangible result of First Corporation Group's R&D to make 100% eco-sustainable and recyclable products."

Olivia Vigano, Key Account Manager at INEOS Styrolution, adds: "I am very excited that INEOS Styrolution is able to offer sustainable material that helps EdilPlast SRL reduce its own carbon footprint as well as that of the companies involved in the distribution process."

Source : Press Release

WACKER Presents Non Post-Cure Liquid Silicone Rubber Grades and Laser Marking Color Pastes for Silicones

Munich, Oct 17, 2023 At Fakuma, the international trade fair for plastics processing, Wacker Chemie AG is presenting new silicone rubber grades that do not need to be post-cured after processing. ELASTOSIL® LR 5003 liquid silicone rubber is suitable for applications in the food industry and other sensitive areas and does not require post-curing to comply with regulatory limits. The chemical group is also presenting a novel solution for marking silicone rubber. ELASTOSIL® COLOR PASTES ensure that such silicones can be permanently and precisely labeled by laser. The spotlight is also trained on ELASTOSIL® eco. These silicone rubber grades are manufactured in a resource-efficient manner

using non-fossil methanol. This year, Fakuma is taking place in Friedrichshafen, Germany, from October 17 to 21.

Silicone rubber frequently undergoes post-curing after processing. During this post-curing procedure, the cured silicone elastomer is heated in a well-ventilated oven for several hours to temperatures of up to 200 degrees Celsius. This eliminates volatile components while enhancing the strength of the silicone rubber. However, this is an expensive step in production that not only consumes a lot of time and energy, but also interrupts the flow of a highly automated production process.

WACKER has now developed yet another line of non post-curing silicone rubber grades under the name ELASTOSIL® LR 5003, which is particularly suitable for the large-scale manufacture of products in the food industry and other sensitive areas. As far as their volatiles content is concerned, molded parts made from such silicones comply with the limits stipulated by the German Federal Institute for Risk Assessment (BfR) even without post-curing. They also meet the requirements of the U.S. Food and Drug Administration (FDA) for food contact products. This means that products such as reusable drinking straws, baking pans, dough scrapers and other items can now be produced very efficiently. ELASTOSIL® LR 5003 may be additionally post-cured in order to achieve even greater strengths and an even lower volatiles content.

ELASTOSIL® LR 5003 complements ELASTOSIL® LR 5040, which is also a non post-curing liquid silicone rubber. Even without post-curing, the latter exhibits a high degree of tear resistance, a property required for, for example, drinking and soothing teats, teething rings and other babycare articles that have to withstand high mechanical stresses.

New: Color Pastes for Marking Silicone Elastomers

In many application areas, for example in the identification of cables or hoses in medical applications or for the tracking of production series and batches, the durable marking of silicones is desirable. However, marking using conventional printing methods is pushed to its limits when it comes to silicone elastomers. The labeling is often rubbed or blurred during marking.

WACKER has now solved this problem. With ELASTOSIL® COLOR PASTES Laser Marking, the group has developed a product that allows for the permanent labeling of silicone elastomers using lasers. The pastes contain laser-sensitive pigments which, when exposed to laser light at a wavelength of 1064 nanometers, very precisely either change their color or cause the elastomer to foam. This creates a permanent, non-washable mark inside or on the surface of the product. This marking is resistant to heat, sunlight and UV light. Marking is contactless – either as a separate marking step after production or during the production process.

To enable the best possible legibility on silicone rubber of various colors, WACKER offers three easy-to-use masterbatches for laser marking on both liquid silicone and solid silicone rubber:

- ELASTOSIL® COLOR PASTE Laser Marking White – for white markings on dark substrates
- ELASTOSIL® COLOR PASTE Laser Marking Black – for black markings on light-colored substrates and
- ELASTOSIL® COLOR PASTE Laser Marking Black TRL – for black markings on transparent substrates.

ELASTOSIL® eco

In addition to ELASTOSIL® 5003 and ELASTOSIL® COLOR PASTE, ELASTOSIL® eco is also showcased at the booth. These are silicone rubber grades produced in a resource-efficient manner. They are manufactured in a certified process with the aid of methanol derived from plants rather than from fossil materials. ELASTOSIL® eco silicones are certified in accordance with the REDcert2 standard, which ensures the traceability of renewable raw materials along WACKER's entire manufacturing process.

Source : Wacker

GoBlu, Centrocot to Drive Chemical Transparency in Italy Fashion Sector

The GoBlu and Centrocot partnership combines the specialised testing, verification, certification, and training services provided by Centrocot with the digital platform, known as the BHive, developed by GoBlu.

In an attempt to advance chemical transparency and sustainability, the collaboration provides stakeholders in Italy with a diverse array of resources designed to facilitate the adoption and management of more sustainable chemical products.

Booking price as on 13/11/2023		
Current Exchange rate-$1= 82.39 INR		
Chemicals name	Current Prices	Type
Acetic Acid	400	CFR India
Acrylonitrile	1130	CFR India
Benzene	745	FOB India
Phenol	890	CFR India
Acetone	730	CFR India
Butyl acrylate monomer	1200	CFR India
C9 solvent	950	CFR India
LAB	1510	CFR India
IPA	900	CFR India
Methanol	245	CFR India
VAM	800	CFR South Asia
Toluene	950	CFR India
Styrene monomer	980	CFR India
NBA	900-950	CFR India
2-eha	1150-1200	CFR India
Iso butanol	910-950	CFR India
MEG	470	CFR India
Mix xylene	980	CFR India
Gycerine	500	CIF India
DMF	780	CFR India
Acrylic acid	950	CIF India
Adipic Acid	1250	CIF India
Ethylene	945	CIF India
PTA	800	CFR India
Propylene	765	CIF India
THF	1500	CIF India
Note- All above booking prices have been directly collected from intenders and importers and verified.		

Mumbai Market Price as on 13/11/2023				
Name of Chemical	Packing type	Units	Current Price	Exclusive of
Acetic Acid	Imported Repack	Rs/Kg	56	GST
	Domestic Intact	Rs/Kg	66	GST
	Domestic Repack	Rs/Kg	56	GST
Acetone	Imported Intact	Rs/Kg	NA	GST
	Imported Repack	Rs/Kg	96	GST
	Domestic Intact	Rs/Kg	115	GST
	Domestic Repack	Rs/Kg	96	GST

Acetonitrile	Imported Intact	Rs/Kg	141	GST
	Domestic Intact	Rs/Kg	NA	GST
	Domestic Repack	Rs/Kg	NA	GST
Acrylonitrile	Imported Intact	Rs/Kg	160	GST
	Imported Repack	Rs/kg	135	GST
Aniline	Imported Intact	Rs/Kg	165	GST
	Imported Repack	Rs/Kg	159	GST
	Domestic Intact	Rs/Kg	166	GST
	Domestic Repack	Rs/Kg	NA	GST
Benzene	Domestic Repack	Rs/Litre	86	GST
Cyclohexane	Imported Intact	Rs/Kg	143	GST
	Imported Repack	Rs/Kg	NA	GST
	Domestic Intact	Rs/Kg	128	GST
	Domestic Repack	Rs/Kg	118	GST
Cyclohexanone	Imported Intact	Rs/Kg	150	GST
	Imported Repack	Rs/Kg	140	GST
	Domestic Intact	Rs/Kg	160	GST
	Domestic Repack	Rs/Kg	146	GST
C9 Solvent (99.99% purity)	Imported Repack	Rs/Kg	110	GST
C9 Solvent (Arham Petrochem)	Imported Repack	Rs/Kg	109.75	GST
Dibutyl Phthalate	Domestic Intact	Rs/Kg	127	GST
Dioctyl Phthalate	Imported Intact	Rs/Kg	NA	GST
	Domestic Intact	Rs/Kg	137	GST
Ethyl Acetate	Domestic Intact	Rs/Kg	95	GST
	Domestic Repack	Rs/Kg	90	GST
Formaldehyde(37%)	Domestic Intact	Rs/Kg	19.5	GST
	Domestic Repack	Rs/Kg	18.5	GST
Methanol	Imported Repack	Rs/Litre	35.5	GST
Methyl Ethyl Ketone	Imported Intact	Rs/Kg	120	GST
	Imported Repack	Rs/Kg	108	GST
Methyl Isobutyl Ketone	Imported Intact	Rs/Kg	165	GST
	Imported Repack	Rs/Kg	144	GST
	Domestic Repack	Rs/Kg	NA	GST
Methyl Methacrylate	Imported Intact	Rs/Kg	144	GST
	Imported Repack	Rs/Kg	NA	GST
Mixed Xylene	Imported Repack	Rs/Kg	104	GST
	Domestic Repack	Rs/Kg	103	GST
Monoethylene Glycol	Imported Intact	Rs/Kg	NA	GST
	Imported Repack	Rs/Kg	55	GST
	Domestic Intact	Rs/Kg	63	GST
	Domestic Repack	Rs/Kg	56	GST

Iso propyl Alcohol	Imported Intact	Rs/Kg	NA	GST
	Imported Repack	Rs/Kg	123	GST
	Domestic Intact	Rs/Kg	140	GST
	Domestic Repack	Rs/Kg	123	GST
nButanol	Imported Intact	Rs/Kg	105	GST
	Imported Repack	Rs/Kg	98	GST
	Domestic Intact	Rs/Kg	107	GST
	Domestic Repack	Rs/Kg	98	GST
Ortho Xylene	Imported Repack	Rs/Kg	116	GST
Phenol	Imported Intact	Rs/Kg	NA	GST
	Imported Repack	Rs/Kg	108	GST
	Domestic Intact	Rs/Kg	120	GST
	Domestic Repack	Rs/Kg	109	GST
Phthalic Anhydride	Imported Intact	Rs/Kg	107	GST
	Domestic Intact	Rs/Kg	107	GST
Purified Terethaic Acid	Domestic Intact	Rs/Kg	NA	GST
Styrene Monomer	Imported Repack	Rs/Kg	109	GST
Toluene	Imported Repack	Rs/Kg	105	GST
	Domestic Repack	Rs/Kg	105	GST
Vinyl Acetate Monomer	Imported Repack	Rs/Kg	80	GST
Note-Above prices have been collected from experts and experienced outsources of the industry.Kindly verify from your end as well.				

International market prices as on 13/11/2023

Products	Regions	Current prices
Feedstock Prices $/unit		
Crude Oil ($/barrel)	WTI CRUDE	83.77
	BRENT CRUDE	86.7
	MARS US	81.21
	OPEC BASKET	89.89
Natural Gas	New York	3.31
Gasoline	RBOB	2.18
Heating Oil	US	3.04
Ethanol	US	2.25
Naphtha ($/mt)	FOB Singapore	NA
	European	630
	CFR Far East Asia	663
Propane	New York	0.69
Aromatics prices $/MT		
Benzene	FOB Korea	920
	CFR Japan	940

Styrene	CFR Japan	1030
	CFR South East Asia	1100
	CFR China	1026
	FOB Korea	1050
Toluene	CFR China	915
	CFR South East Asia	940
	FOB Korea	895
	CFR Japan	915
Iso-mix xylene	CFR South East Asia	935
	CFR Taiwan	970
	FOB Korea	950
MEG	CFR China	465
	CFR South East Asia	475
Methanol	CFR China	282
	CFR Korea	330
	CFR South East Asia	350
	CFR Taiwan	325
Solvent-MX	CFR South East Asia	1050
	FOB Korea	950
	CFR China	935
Ortho xylene	CFR South East Asia	1150
	FOB Korea	1140
	CFR China	1115
Para xylene	CFR South East Asia	1045
	FOB Korea	1015
	CFR Taiwan	1040
Propylene	FOB Japan	840
	FOB Korea	810
	CFR China	850
	CFR South East Asia	800
Propylene Glycol	FOB Korea	895
	CFR China	920
	CFR South East Asia	925
	CFR Taiwan	920
Ethylene	CFR North East Asia	875
	CFR South East Asia	865
	FOB Japan	860
	FOB Korea	865
Ethylene Di Chloride (EDC)	CFR Far East Asia	290
	CFR South East Asia	280

Butadiene	CFR China	1025
	CFR South East Asia	1005
	FOB Korea	1015
FOB Rotterdam USD/MT	Benzene	1090
	Methanol	269
	Ortho xylene	1445
	Para xylene	1195
	Xylene solvent	1120
	Styrene	1155
	Toluene	995
USA Aromatics prices FOB US Gulf	Benzene C/G	410
	Toluene C/G	355
	Styrene C/LB	51.4
	Para xylene $/MT	1095
	Mix xylene C/G	358
	Methanol C/G	82
Intermediates prices $/MT		
Acrylonitrile	CFR Far East Asia	1225
	CFR South East Asia	1225
	CFR South Asia	1230
EDC	CFR Far East Asia	270
	CFR South East Asia	320
VCM	CFR Far East Asia	650
	CFR South East Asia	675
MTBE	FOB Singapore	947
	FOB US Gulf	1063
Phenol	CFR China	1010
	CFR South East Asia	1090
	FOB US Gulf	1135
	FOB Rotterdam	1201
Acetone	CFR China	835
	CFR South East Asia	880
	CFR Far East Asia	685
	FOB US Gulf	1080
	FOB Rotterdam	1166
Caprolactum	CFR Far East Asia	1650
	CFR South East Asia	1650
Caustic Soda	FOB North East Asia	415
	CFR South East Asia	455
MEK	FOB Rotterdam	1060
	FD North West Europe(Euro/mt)	1100

Ethyl acetate	FOB US Gulf	1672
	FOB Rotterdam	975
	FD North West Europe(Euro/mt)	1020
Butyl acetate	FOB US Gulf	2180
	FOB Rotterdam	1405
	FD North West Europe(Euro/mt)	1425
IPA	FOB US Gulf	990
	FOB Rotterdam	1018
	FD North West Europe(Euro/mt)	1060
NBA	CFR China	1160
	CFR South East Asia	1170
	CFR Far East Asia	1165
Octanol	CFR China	1425
	CFR South East Asia	1390
	CFR Far East Asia	1445
DOP	CFR China	1410
	CFR South East Asia	1430
	CFR Far East Asia	1405
Phthalic anhydride	CFR China	1055
	CFR South East Asia	1095
	CFR Far East Asia	1075
PTA	CFR Far East Asia	755
	CFR South East Asia	765
Acetic Acid	CFR Far East Asia	560
	CFR South Asia	525
	FOB China	445
VAM	CFR China	1010
	CFR South East Asia	980
	CFR South Asia	1020
Polymers prices $/MT		
PVC Suspension	CFR Far East Asia	860-880
	CFR South East Asia	870-900
ABS Injection	CFR Far East Asia	1260-1310
	CFR South East Asia	1280-1330

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

Note- Last changed price means when it changed last whether its yesterday or 2 days ago or 5 days ago or depends on last changing.

Shipping term		Description
FOB	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.
EXW	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.
CFR	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.
CIF	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.
DAP	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.
DDP	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.

FD North West Europe	Free Delivered	Free Delivered North West Europe	
Countries Groups	Southeast Asia is composed of eleven countries: Brunei, Burma (Myanmar), Cambodia, Timor- Leste, Indonesia, Laos, Malaysia, the Philippines, Singapore, Thailand and Vietnam.	Far East Asia:The following countries are considered to be located in the Far East: China, Hong Kong, Macau, Japan, North Korea, South Korea, Mongolia, Siberia, Taiwan, Brunei, Cambodia, East Timor, Malaysia, Laos, Indonesia, Myanmar, Singapore, Philippines, Thailand, and Vietnam.	South Asia: The region consists of the countries of Afghanistan, Pakistan, India, Nepal, Bhutan, Bangladesh, the Maldives, and Sri Lanka
Note- Last changed price means when it changed last whether its yesterday or 2 days ago or 5 days ago or depends on last changing.			

Opening Ports Price (Rs/kg) of Chemicals as on 13/11/2023

USD Exchange Rate: 83.24 INR

Alphabets	Chemicals Name	Current Prices (INR/ kg)	Prices in USD/ mt Equivalent to INR/kg	Location
A	Acetic Acid	48.5	582.65	Ex-Mumbai
	Acetic Acid	48	576.65	Ex-Kandla
	Acetonitrile-imported intact	145	1741.95	Bhiwandi
	Acetone	82	985.10	Ex-Mumbai
	Acrylic acid	90	1081.21	Ex-Mumbai
	Acrylonitrile	106-108	Not Available	Ex- Kandla
	Adipic acid	124	1489.67	Ex-Bhiwandi
	Aniline oil	145	1741.95	Ex-Kandla
	ABS Resin	130	1561.75	Ex-Mumbai Market
B	Benzene	79	949.06	Ex-Vizaz
	Butyl Acetate	109	1309.47	Ex-Kandla
	Butyl Acrylate monomer	108	1297.45	Ex-Kandla
	Butyl Glycol	102	1225.37	Ex-Kandla
D	DMF Drum	82	985.10	Ex-Bhiwandi
	DIBP & DINP intact drum	NA	Not Available	Mumbai Market
	DEG	67-69	Not Available	Ex-Kandla

C	C10	NA	Not Available	Ex-Kandla
	C9	95	1141.28	Ex-Kandla
	Carbon Black- regular grade	65	780.87	Mumbai
	Caustic Soda Lye	36	432.48	Ex-Dahej
	Caustic Soda Flake	NA	Not Available	Ex-Mumbai
	Chloroform	NA	Not Available	Ex-Dahej
	Citric Acid-ANHYD	74	889.00	Ex-Bhiwandi
	Citric Acid-Mono	65	780.87	Ex-Bhiwandi/Ex-Mumbai
	Cyclohexane	108	1297.45	Ex-Hazira
	Cyclohexanone	122	1465.64	Ex-Kandla
E	EDC	28.5	342.38	Ex-Kandla
	Epoxy Resin	185	2222.49	Ex-Nhava Sheva
	Ethyl Acrylate	NA	Not Available	Ex-port
F	Formic Acid	70	840.94	Ex-Bhiwandi
G	Glycerine	58	696.78	CIF Nhava Sheva
H	N-Heptane	150	1802.02	Ex-Bhiwandi
	Hexane	81	973.09	Ex-Kandla
	Hydrogen Peroxide-50%	31 (32 NPL, 33 Maghmani)	Not Available	Ex-Bhiwandi
I	Isobutanol	89-90	Not Available	Ex-Kandla
	IsoPropyl Alcohol	113/114	Not Available	Ex-Kandla/Ex- Mumbai
L	LAB	135iran,138 qatar	Not Available	Imported
N	N-Butanol	92	1105.24	Ex-Kandla
	N-Propanol	85.5	1027.15	Ex-Kandla
O	Octanol	120	1441.61	Ex-Kandla
	Ortho Cresol	250	3003.36	Ex-Bhilai
	Ortho Xylene	109	1309.47	Ex-Kandla
P	Phenol	98.5	1183.33	Ex-Kandla
	Phenolic Resin	150	1802.02	Ex-Indore
	Phthalic Anhydride	108	1297.45	Ex-Mumbai
	Propylene Glycol	105	1261.41	Ex-Kandla
	PVC Resin	74	889.00	Ex-Mumbai Market

Numbers	2,4-2,5 Xylenol	195	2342.62	Ex-Bhilai
M	Maleic Anhydride-Drum	91	1093.22	Ex-Mumbai
	MDC	44 ex gfl	Not	Ex-Dahej
			Available	
	MEG	49-50	Not Available	Ex-Mumbai
	MEK	95	1141.28	Ex-Kandla
	Melamine	94	1129.26	Imported
	Meta Para Cresol	82	985.10	Ex-Bhilai
	Methanol	26.5/27	Not Available	Ex-Kandla/Ex-Mumbai
	MIBK	129 ready,130inc	Not Available	Ex-Hazira
	Mix Xylene-Solvent Grade	92	1105.24	Ex-Kandla
	Mix Xylene-Solvent Grade	93	1117.25	Ex-Mumbai
	Mix Xylene-Iso Grade	93	1117.25	Ex-Kandla
	Mix Xylene-Iso Grade	NA	Not Available	Ex-Mumbai
	MMA	141	1693.90	Ex-Hazira
S	Sodium Nitrate (50Kg Bag)	61	732.82	Ex-Taloja Plant(Make-Lasons)
	Soda ash light	40	480.54	Ex-Bhiwandi
	Styrene Monomer	98	1177.32	Ex-Kandla
	Styrene Monomer	99	1189.33	Ex-Mumbai
	Sulphuric Acid	5 Vapi / 4.5 kolkata	Not Available	Ex-Vapi
T	Tio2(Anatase Grade)	190	2282.56	Ex-Bhiwandi
	Tio2(Rutile Grade)	215	2582.89	Ex-Bhiwandi
	Toluene	93	1117.25	Ex-Kandla
	Toluene	94	1129.26	Ex-Mumbai
V	VAM	73	876.98	Ex-Kandla
	VAM	75	901.01	Ex-Hazira

Producer Prices (Rs/kg) of Chemicals as on 13/11/2023

Producers	Chemicals Name	Current Price(Rs/kg)	Import parity price in USD/MT	Production capacity	Location

RIL	Toluene	(100 Jamna-gar)	Not Available	100,000 tonnes/year	Hazira
	Mix Xylene	(95 Jamna-gar)	Not Available	120,000 tonnes/year	Dahej
	MEG	53.2	639.12	750,000 tonnes/year	Jamnagar
	DEG	68.4	821.72	65,000 tonnes/year	Jamnagar
	TEG	112.7	1353.92	NA	Jamnagar
	LAB	135.5	1627.82	180,000 tonnes/year	120ktpa Patalganga,
					60ktpa Vadodra
	PTA	86.6	1040.37	1,300,000 tonnes/year	Dahej
IOCL	LAB	NA	Not Available	120,000 tonnes/year	Koyali, Gujarat
	MEG	49.7	597.07		Ex- Odisha(Paradip
	MEG	52.4	629.51		Ex-Panipat
	DEG	66.4	797.69		Ex- Odisha(Paradip
	DEG	68.7	825.32		Ex-Panipat
	Banzene	69	828.93		Vadodara, Gujarat
	Paraffin Wax	NA	Not Available		
Deepak Pheno-lics	Phenol	97	1165.31	200,000 tonnes/year	Dahej
	Acetone	80	961.08	80.5	Dahej
	IPA Bulk	114	1369.53	30,000 tonnes/year	Dahej
Andhra Petro-chemicals	Octanol	127	1525.71	70,000 tonnes/year	Vishakhapatnam
	N-Butanol	90	1081.21	30,000 tonnes/year	Vishakhapatnam
	Iso-Butanol	94	1129.26	4000 tonnes/year	Vishakhapatnam
Adipic acid	Ex-Deepak	NA	Not Available		
	Ex-BASF	152	1826.05	210,000 tonnes/year	Germany
NIRMA	LAB	135	1621.82	120,000 tonnes/year	Vadodra
TATA Chemicals	Soda Ash light	41	492.55	900,000 tonnes/year	Mithapur
GACL	Soda Ash light	NA	Not Available		

Arham Petro-chem Pvt Ltd (Kandla Energy & Chemicals Ltd Refinery)	C9	94.75	1138.27	69,000 tonnes /year	Kandla
	C9	95.75	1150.29	69,000 tonnes /year	Ahmedabad
	C10	NA	Not Available	30,000 tonnes /year	Kandla
	C10	NA	Not Available	30,000 tonnes /year	Ahmedabad
	C10 - Imported Repack	NA	Not Available	30,000 tonnes /year	Bhiwandi Warehouse
	MTO/White Spirit(kl)	59.65	716.60	75000 tonnes / Year	Kandla
	MTO/White Spirit(kl)	60.65	728.62	35,000 tonnes /year	Ahmedabad
	De-Aromatised D40	130	1561.75	75000 tonnes / Year	Kandla
	De-Aromatised D40	131	1573.76	35,000 tonnes /year	Ahmedabad
	De-Aromatised D60	139	1669.87	75000 tonnes / Year	Kandla
	De-Aromatised D60	140	1681.88	35,000 tonnes /year	Ahmedabad
HOCL	Phenol	112	1345.51	40,000 tonnes/year	Kochi
	Acetone	86	1033.16	24640 tonnes/year	Kochi
SI GROUP	Phenol	NA	Not Available	39500 tonnes/year	Ratnagiri, Maharashtra
	Acetone	64	768.86	24000 tonnes/year	Ratnagiri, Maharashtra
	Phthalic Anhydride	103	1237.39	11000 tonnes/year	Ratnagiri, Maharashtra
	Benzene	NA	Not Available	NA	NA
Caustic Soda Lye	Meghmani	35.5	426.48	400000 tonnes/annum	Bharuch, Gujarat
	GACL	NA	Not Available		
	RIL	NA	Not Available	69500 tonnes/annum	Kurnool Distric, Andhra Pradesh
GSFC	Cyclohexane	109	1309.47	NA	Gujarat
	Cyclhexanone	NA	Not Available	NA	Gujarat

BPCL	Benzene	84.2	1011.53	90,000 tonnes/year, Mumbai Refinery,	87000 tonnes/year,Kochi
	Toluene	NA	Not Available	16,000 tonnes/year	Kochi Refinery
	Hexane(kl)	95.4	1146.08	35,000 tonnes/year, Kochi	Mumbai Refinery
	Hexane(MT)	143.6	1725.13	35,000 tonnes/year, Kochi	Mumbai Refinery
	MTO(kl)	101.3	1216.96	19,000 tonnes/year	Mumbai Refinery
	Paraffin Wax	NA	Not Available		
	Sulphur(Molten)	NA	Not Available	19,000 tonnes/year	Mumbai Refinery
	Acrylic Acid (Bulk)	NA	Not Available	47000 tonnes/year	Kochi Refinery
	Acrylic Acid (Packed)	NA	Not Available		Kochi Refinery
	2-Ethyl Hexanol (B)	NA	Not Available	47000 tonnes/year	Kochi Refinery
	2-Ethyl Hexanol (P)	NA	Not Available		Kochi Refinery
	N-Butanol(B)	96	1153.29	38000 tonnes/year	Kochi Refinery
	N-Butanol(B)	NA	Not Available		Kandla Installation
	N-Butanol(P)	NA	Not Available		Kochi Refinery
	Iso-Butanol(B)	99	1189.33	7000 tonnes/year	Kochi Refinery
	Iso-Butanol(P)	NA	Not Available		Kochi Refinery
	Butyl Acrylate (B)	NA	Not Available	180000 tonnes/year	Kochi Refinery
	Butyl Acrylate (B)	NA	Not Available		Kandla Installation
	Butyl Acrylate (P)	NA	Not Available		Kochi Refinery
	2-Ethyl Hexyl Acrylate(B)	NA	Not Available	10000 tonnes/year	Kochi Refinery
	2-Ethyl Hexyl Acrylate(P)	NA	Not Available		Kochi Refinery

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

GNFC	Acetic Acid	50	600.67	160,000 tonnes/year	Bharuch
	TDI Drum	202	2426.72	67000 tonnes/year	Bharuch
	Aniline Oil	146	1753.96		Bharuch
MDC	Grasim	NA	Not Available	33000 tonnes/year	Nagda, Madhya Pradesh
	Meghmani	39.5	474.53	397500 kg/month	Ankleshwar, Gujarat
	Rayalseema	NA	Not Available	40 tonnes/month	Bharuch, Gujarat
	GACL	39.5	474.53	NA	Bharuch, Gujarat
Ethyl Acetate	GNFC	80.5	967.08	50000 tonnes/year	Bharuch, Gujarat
	Accord	81	973.09		
	Satyam	81	973.09	50 tonnes/day	Nevasa, Maharashtra
	Bhange	NA	Not Available	400ltr/day	Ahmednagar, Maharashtra
	Jubilant	81	973.09	280 tonnes/day	Gajraula, U.P
	Laxmi	81	973.09	100000 tonnes/annum	Mahad, Maharashtra
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Grazia Cerini, CEO and general manager of Centrocot says: "The partnership with GoBlu is an important step for the benefit of our customers, who will be able to see and manage their Centrocot verified chemical products in the BHive platform.

"We will provide a comprehensive service portfolio in which our hands-on chemical expertise will be matched with GoBlu's background in IT innovation and chemical management."

GoBlu managing director Lars Doemer adds: "We envision The BHive to become one of the leading chemical management solutions for Italian stakeholders in the textile and fashion industry.

"With Centrocot's great expertise, testing and certification services we are now able to provide our Italian customers local support and access to a wide range of resources to achieve full transparency in their supply chain."

Source : Just Style

Dow Personal Care Expands Sustainable Portfolio with Three New Product Launches at In-Cosmetics Asia 2023

Bangkok, Thailand. – October 25th, 2023 – Dow (NYSE: Dow) will present its latest innovative ingredients at in-cosmetics Asia 2023 in Bangkok, Thailand, from November 7-9 (booth K30). The new product launches, including the debut of the Beauty Rebalanced 2.0 Concepts Collection and Sustainable Hair Care Collection, celebrate one of the largest portfolios in the personal care industry that focuses on sustainable and high-performance solutions.

Additionally, Dow is inviting professionals from beauty OEM, ODM, and Indie Brands to join us at the Inspire Asia Beauty workshop, on November 8, 11:30 a.m. in BITEC 214 meeting room. Dow experts will share industry trends and scientific know-how on driving sustainable beauty through the power of bio-based and biodegradable ingredients and 13 brand new formulations from Dow's Beauty Rebalanced 2.0 and Sustainable Hair Care Collection, exploring waterless beauty, high natural origin formulations and minimalist beauty.

"Dow is celebrating Asia's diversity and beauty at in-cosmetics Bangkok with three new technologies and new Beauty Rebalanced and Sustainable Hair Care concepts collection. We continue to invest in our bio-based technologies platform to offer high-performing, bio-derived, bio-degradable ingredients that meet green regulatory standards. We want to enable brands to deliver their promise to consumers with formulations that are gentle on the skin, hair, and the environment." said Isabel Almiro do Vale, Global Strategic Market Director of Dow Personal Care. "With our initiatives, we are strengthening our promise to accelerate the transition towards a low-carbon, circular economy for the beauty industry."

The latest product launches span across a range of beauty care applications, including skin care, hair care, sun care and color cosmetics. Our new launches and featured formulation concepts include:

EcoSense™ APP-1000 Surfactant, 100% naturally derived and readily biodegradable surfactant, delivering improved foam quality and foam stability compared to existing surfactants; efficient at removal of silicone (deposit from rinse-off conditioner treatment); demonstrates long-lasting color protection. Shortlisted for in-cosmetics Asia Innovation Zone Best Ingredient Award 2023.

EcoSense™ APP-5000 Formulation Aid,

a bio-based oil-in-water emulsifier that is naturally sourced from sugars and fatty alcohol. It supports consumer demand for natural formulations with 100% natural index per ISO 16128, and 100% renewable carbon content. Suitable for PEG free systems and can emulsify high oil phase content up to 40%. This product will be featured at the show's Innovation Zone.

DEXCARE™ CD-1 Polymer, 2023 BIG Innovation Award-winning bio-derived deposition aid to boost the shampoo's conditioning effectiveness, allowing for increased versatility and improving the natural content of formulations. This product will be showcased at the show's Spotlight On Zone.

Beauty Rebalanced 2.0, is a collection of seven beauty formulations enhancing eco-conscious choices from different angles. These innovative concepts are designed with a clear focus on sustainability, exploring waterless beauty, high natural origin formulations and minimalist beauty. This collection covers skin care, hair care, sun care and color cosmetics.

Sustainable Hair Care Collection, a collection of six inspirational formulations for complete hair care, innovated with bio-based or biodegradable ingredients and formulations engineered to minimize environmental impact.

"Asia Pacific region continues to drive innovations and new demand in the personal care industry, through in-cosmetics Asia and our Inspire Asia Beauty workshop, we look forward to connecting with industry professionals, showcasing our latest developments, and forging partnerships that will shape the future of the personal care market," said Cedric Toh, Global Segment Leader and Regional Marketing Manager for Dow Personal Care.

Dow experts and scientists will be available at in-cosmetics Asia 2023 to discuss high-performing technologies, bio-based innovative materials and the fresh, inspiring formulations developed to bring industry-leading ideas to life. To learn more about Dow's innovations, visit the Innovation Zone and Spotlight On Corner at the show and meet with Dow experts at booth K30.

Source : DOW

Recycling Content TPE with Various Adhesion Options

KRAIBURG TPE presents further more sustainable product solutions: Recycling Content TPE. Customers now have access to various compounds with significantly higher recycled content from post-industry and/or post-consumer waste streams across the entire hardness range, i.e. also in the low ShA range. The new compounds also provide adhesion options to PA, PC/ABS or PP. The TPE manufacturer from Waldkraiburg, Germany, is thus responding to the growing demand and is supplying ready-to-use solutions.

KRAIBURG TPE, a global manufacturer of custom-engineered TPEs, announces the launch of its latest product line. These solutions expand the group of THERMOLAST® R compounds and make it possible to use a high percentage of recycled materials. In comparison to the already established products, up to 70% can be achieved even in materials with low Shore A hardness. They are an important milestone in the development of innovative compounds with adhesion properties. The launch is KRAIBURG TPE's response to the increasing market demand for more environmentally friendly materials with a proportion of post-industrial and/or post-consumer recycled materials (PIR, PCR). Recycling Content TPEs are consistent with customers' sustainability vision and support customers in achieving their own sustainability targets.

The new high-performance compounds are specially tailored to meet the requirements of different industries and market segments and allow adhesion to PA, PC/ABS or PP. This combination of properties for single, two-component or multicomponent parts combined with high proportions of recycled material of up to 79% is completely new in KRAIBURG TPE's product range.

An overview of the new thermoplastic elastomers (TPEs):

Recycling Content TPE with adhesion to PA is the first TPE worldwide with a proportion of PCR and PIR materials of 43 to 60% depending on their hardness. It can be used for a large number of applications for two-component parts with adhesion to PA. Different hardnesses ranging from 40 to 90 Shore A are available.

Recycling Content TPE with adhesion to PC and ABS has a proportion of post-industrial and post-consumer recycled materials between 42 and 54% depending on the hardness required. It is suitable for a wide range of multicom-

ponent parts that require adhesion to ABS and PC or other technical thermoplastics. Different hardnesses ranging from 40 to 70 Shore A are available.

Second-generation Universal PCR TPE is available with a proportion of recycled materials of up to 79%. These materials provide a wide variety of possible uses for applications that require adhesion to PP. The materials are available in a wide hardness range from 30 to 90 Shore A and, with their high proportion of sustainable materials, they are a further development of the Universal PCR compounds launched in 2022.

In addition, the compounds provide reliable quality, are immediately available and can be colored: All new TPEs are available in natural colors and can be colored in many different ways depending on customers' wishes and requirements. This excellent coloring also allows maximum flexibility in design.

The latest recycling solutions with adhesion provide processing companies with comprehensive options to meet industry's and consumers' changing requirements. KRAIBURG TPE's Recycling Content TPEs are intended in particular for product designers, product engineers and product managers in industry market segments that focus on power tools, electrics and electronics (E&E). In the consumer segment, various usage scenarios for household applications as well as sports and leisure applications can be implemented. In general, these applications comprise handles and damping elements.

"With Recycling Content TPEs, we are making a contribution to achieving ambitious sustainability targets for products of high technical quality. Sustainability is a core competency of KRAIBURG TPE and with these new compounds, we are closing recycling loops and acknowledge our responsibility towards the environment and future generations," summarizes Eugen Andert, Project Manager Advance Development at KRAIBURG TPE.

The positioning of the compounds in the market is focusing on sustainability and saving resources. Using these compounds will help customers to effectively reduce the carbon footprint of their final products, while ensuring durable solutions. Due to the chemical structure of the compounds, KRAIBURG TPE stands out from the market and combines performance with the concept of sustainability. This new product series is available immediately.

Source : Press Release

Sasol Chemicals Introduces Biosurfactant Brands for Personal and Home Care Markets

Houston, USA – Sasol Chemicals, a business unit of Sasol Ltd. (JSE: SOL; NYSE: SSL), today announced the launch of CARINEX and LIVINEX, two brands that will expand Sasol's offerings of sustainable products. CARINEX SL AND LIVINEX SL, both biosurfactants, are the first product offerings under these new brands.

Sasol Chemicals, one of the world's largest manufacturers of surfactants, previously announced plans to begin exploring alternatives to traditional surfactants. In March 2022, the company announced a strategic partnership with Holiferm Limited to develop sophorolipids, a fermentation-derived biosurfactant offering an extensive reduction in carbon footprint compared with petroleum or bio-based surfactants. Using Holiferm's proprietary technology, Sasol's sophorolipids are fully derived from natural palm-free oils and/or sugars, making them environmental-friendly products without compromising performance.

"As Sasol continues to find ways to offer our customers lower-carbon footprint products, we believe partnerships are the key to unlocking and accelerating sustainable innovation and transformation," said Eric Stouder, Senior Vice President of Sasol Chemicals. "Combining Holiferm's advanced technology with Sasol's unique chemistry and global reach, we can now offer our customers mass produced, high performing and more sustainable solutions at competitive prices."

Source : Sasol