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DYES & CHEMICAL MARKET

MAY 2023

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MUMBAI | PAGES 74

40th Year SINCE 1982

Connecting the Chemical Industry Together !

A MONTHLY MAGAZINE DEVOTED TO

DYES CHEMICALS PHARMACEUTICALS API TEXTILE AUXILIARIES PAINTS SOLVENTS COSMETICS

SANITIZED AG launches new product Sanitized® BDC with dual function as in-can preservative and for product sanitation for the paint industry -Pg 73

Solar Coating Solutions Help To Harvest More Energy From The Sun -pg 45

Innovative Cosmetics Refill Containers From Stella Mccartney Beauty Made With Up To 90% Of Sabic's Certified Renewable Polymers -pg 71

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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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Parimal Parikh

Editor:
Rajiv Parikh

Content:
Pranisha P. Jadhav
Sonam Parikh

Designer:
Pranisha P. Jadhav

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Contact Information:
Tel: 91-981-9644-048
91-877-9830-330
Email: info@chemicalmarket.net

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Parimal B. Parikh
401/C Himachal Bldg, Opp. Sunder Nagar,
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DCM Media Private Limited
513, Lotus Busness Park, Ram Baug, Chincholi,
Off S. V. Road, Malad West, Mumbai - 400064
Phone: 98196-44048 / 91-877-9830330

EDITORIAL

CHEMICAL MARKET

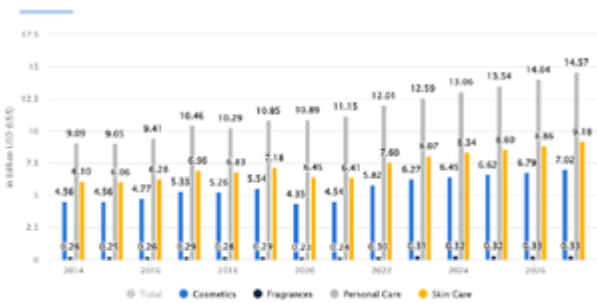
A MONTHLY MAGAZINE DEVOTED TO THE DYES, CHEMICALS, PHARMACEUTICALS, TRADE & INDUSTRY SINCE 1982

Changes, Growth and Trends in the Cosmetic Industry

As per the Drug and Cosmetic Act 1940, "cosmetic" means any article intended to be rubbed, poured, sprinkled or sprayed on, or introduced into, or otherwise applied to, the human body or any part thereof for cleansing, beautifying, promoting attractiveness, or altering the appearance, and includes any article intended for use as a component of cosmetic.

The cosmetic industry is one of the most lucrative and dynamically changing industry in the chemical sector. With the short life cycles of cosmetic products, diverse climatic conditions and fast changing trends in the fashion industry the cosmetic products manufacturers need to be constantly evolving and innovative. The product competition is fierce and the rising middle class has contributed to the rise in the cosmetic industry along with new social media and marketing paradigm shift. Also the natural and ayurvedic products have increased competition in the personal care and cosmetic industry. Imagine Patanjali, an Indian Ayurvedic and cosmetics industry products are in direct competition with Hindustan Unilever and L'Oréal's of the world.

The global cosmetic industry shows no signs of slowing growth. Its market size was valued at $380.2 billion in 2019 and is projected to reach $463.5 billion by 2027, registering a CAGR (Compound Annual Growth Rate) of 5.3% from 2021 to 2027. The Indian Cosmetic Market growth rate of 2.3% for the year 2019-2020, with a market value exceeding $15 billion in December 2020. According to one report, the Indian Beauty and Personal Care Market is projected to reach USD 24.53 Bn in 2022 and is expected to reach USD 33.33 Bn by 2027, growing at a CAGR of 6.32% (Research and Markets, 2022). The IPO launch of Nykaa, put the spotlight firmly on this sector, with analysts realizing the potential in this evergreen industry. The success of Patanjali and the advent of international brands like Bath and Body works and Body Shop are few examples which has seen success in the market of more than a billion people.



Notes: Data shown is using current exchange rates and reflect market impacts of Russia-Ukraine war.
Most recent update: Dec 2022
Source: Statista

According to statista

- Revenue in the Beauty & Personal Care market amounts to US$27.23bn in 2023. The market is expected to grow annually by 3.38% (CAGR 2023-2027).
- The market's largest segment is the segment Personal Care with a market volume of US$12.59bn in 2023.
- In global comparison, most revenue is generated in the United States (US$91.41bn in 2023).
- In relation to total population figures, per person revenues of US$19.18 are generated in 2023.
- In the Beauty & Personal Care market, 12.7% of total revenue will be generated through online sales by 2023.

With the increasing shelf space in retail stores, many multinational brands have participated in the booming cosmetics and personal care space. According to TechSci research report, in association with Assocham, India accounts for a tiny share of the global cosmeceutical, cosmetics and personal care market. This is changing rapidly due to the macro economic factors such as improving demographics, development of Tier II and Tier III cities in India, rising middle class, expansion of retail and online stores, and social media influencer community promoting and marketing the products. Globally, the cosmeceutical, cosmetics, & personal care sector is expected to grow at a CAGR of around 3.5%, which is much lower than the anticipated growth in India. Various foreign FMCG multinationals such as Hindustan Unilever Limited (HUL), L'Oréal Paris, Procter and Gamble (P&G), Nivea, etc., have already established themselves in India. Increasing technology adoption, growing urbanization and structural reforms that are being introduced by the government are some of the major factors supporting growth in the Indian market.

If you are a part of the cosmetic industry, connect with us, make your profile on the Chemical Market Leads Platform and list your raw materials used in the cosmetics industry.

On another note, Expo Paints and Coatings (EPC) 2023 going to be held in Delhi, Pragati Maidan from 13th – 15th July. We are booking the raw space and shell scheme for EPC 2023. For more details, please contact us or send us an email.

-Rajiv Parikh

CphI - Informa Group			
No	**Exibitions**	**Date**	**Place**
1	CPhI North America	May 7-9, 2024	Pennsylvania Convention Center, Philadelphia
2	CPhI Worldwide Germany	Oct 24-26, 2023	Messe Frankfurt, Germany
3	CPhI Middle East & Africa	Jan 15-17, 2024	Riyadh, Saudi Arabia
4	CPhI China- Virtual CPhI	June 19-21, 2023	Shanghai, China
5	CPhI Japan	Apr 17-19, 2024	Tokyo, Japan
6	CPhI Korea	30 Aug - 1 Sept, 2023	COEX, Seoul, Korea
7	CPhI India	Nov 28-30, 2023	Noida, India
MECS (Coating Show)			
1	Asia Pacific Coatings Show	Sept 06-08, 2023	Bankok, Thailand
2	Saudi Arabia Coatings Show	2025	Dammam Saudi Arabia
3	Middle East Coatings Show	June 19-21, 2023	Egypt
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	Sept 13-16 2023	Bangladesh
4	Dye+Chem Brazil International Expo	TBD	Brazil
Red Carpet Events			
1	5th Bangladesh Int'l Dyes, Pigments and Chemicals Expo	TBD	Dhaka, Bangladesh
Turkey (Arkim Group)			
1	InterDye Textile Printing Eurasia	TBD	Istanbul
2	Paint Istanbul TURKCOAT	Feb 7-9, 2024	Istanbul
3	Paint Expo Eurosia	Apr 09-12, 2024	Istanbul
Other Exhibitions			
1	Paint India	Feb 22-24, 2024	Bombay Exhibition Centre, Mumbai
2	Expo Paint and Coating	July 13-15, 2023	New Delhi, India
3	CIPI	TBD	Mumbai, India
4	Chemspec Europe	May 24-25, 2023	Messe Basel, Switzerland
5	ChemUK Expo	May 10-11, 2023	NEC, Birmingham, UK
6	American Coatings Show	April 30-2 May 2024	Indianapolis
7	China Coat China	Dec 2024	China Import and Export Fair Complex, Guangzhou
8	Interdye China	TBD	China
9	Paint Expo Germany	Apr 09-12, 2024	Messe Karlsruhe Germany
10	India Chem 2023	TBD	Pragati Maidan, New Delhi

CHENNAI PRICE TREND – 10.05.2023

Inorganic Chemicals	No of Units Per Pack	Price (Rs/Kg)
Acid Slurry (Soft)	50 Kgs	138.00
Alum- Ferric	50 Kgs	22.00
Ammonium Bicarbonate	25 Kgs	34.00
Ammonium Bi fluoride [sugar-grade]	50 Kgs	178.00
Ammonium Carbonate	50 Kgs	90.00
Ammonium Chloride	50 Kgs	54.00
Ammonium Nitrate	50 Kgs	30.00
Ammonium Phosphate (Mono)	50 Kgs	135.00
Ammonium Sulphate	50 Kgs	29.00
Antimony Trioxide	50 Kgs	1075.00
Barium Chloride	50 Kgs	58.00
Bleaching Powder (33% Cl)	25 Kgs	14.00
Borax (Granular)	50 Kgs	86.00
Boric Acid (Tech.)	50 Kgs	130.00
Calcium Carbonate (Activate)	50Kgs	18.00
Calcium Carbonate (Precipitated)	50 Kgs	17.00
Calcium Chloride Lump 70%	50 Kgs	14.00
Calcium Chloride-Anhydrous	50 Kgs	24.00
Camphor Oil	200 Litres	135.00
Caustic Potash (Flakes)	50 Kgs	143.00
Caustic Soda (Flakes)	25 Kgs	54.00
Caustic Soda (Prills)	50 Kgs	98.00
Chromic Acid Flakes	50 Kgs	335.00
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	36.00
Hyflosupercell	22.7 Kgs	138.00
Litharge	50 Kgs	220.00
Lithopone B301(China)	25 Kgs	112.00
Magnesium Carbonate (Indian)	50 Kgs	130.00
Magnesium Sulphate	50 Kgs	18.00
Mercury	34.5 Kgs	7800.00
Napthaline Balls	50 Kgs	130.00
Nickel Chloride	25 Kgs	725.00
Phosphoric Acid (85% Tech)	50 Kgs	125.00
Potassium Carbonate (Powder)	25 Kgs	178.00
Potassium Carbonate (Granules)	25 Kgs	145.00
Potassium Nitrate	50 Kgs	150.00
Potassium Permanganate [Tech]	50 Kgs	275.00
Potassium Permanganate [Pure]	50 Kgs	320.00
Potassium Phosphate (Di)	50 Kgs	158.00
S.L.E.S	50 Kgs	61.00
Soda Ash Light	50 Kgs	41.00
Sodium Bicarbonate	50 Kgs	42.00
Sodium Bichromate	50 Kgs	190.00
Sodium Bisulphite	50 Kgs	45.00
Sodium Chlorite 50% (India)	50 Kgs	240.00
Sodium Chlorite 80% (India)	50 Kgs	280.00
Sodium Cyanide	50 Kgs	650.00
Sodium Fluoride	50 Kgs	150.00
Sodium Formate	50 Kgs	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	17.00
Sodium Sulphide 50-52% (Flakes)	50 Kgs	58.00
Sodium Sulphide 58-60% (Flakes)	50 Kgs	52.00
Sodium Sulphite 92%	50 Kgs	56.00
Sodium Tri polyphosphate	50 Kgs	112.00
Titanium Dioxide Anatase	25 Kgs	195.00
Titanium Dioxide (Rutile - R-902)	25 Kgs	256.00
Trisodium Phosphate	50 Kgs	42.00
Zinc Chloride Powder (Tech.)	50 Kgs	90.00
Zinc Oxide White Seal	50 Kgs	250.00
Zinc Stearate [Pure]	25 Kgs	220.00
Zinc Sulphate (Tech.)	50 Kgs	58.00
Organic Chemicals	**No of Units Per Pack**	**Price (Rs/Kg)**
Acetic Acid Glacial	35 Kgs	66.00
Acetone	160 Kgs	93.00
Benzene	196 Ltrs.	92.00
Benzyl Alcohol	200 Kgs	200.00
Bisphenol-A (Russian)	25 Kgs	180.00
Bisphenol-A (Russian)	170 Kgs	108.00
n-Butyl Acetate	165 Kgs	116.00
Butyl Cellosolve	195 Kgs	140.00
Camphor	25 Kgs	850.00
Cellosolve –Ethyl	195 Kgs	152.00
Chloroform	300 Kgs	50.00
Citric Acid (Anhy)	25 Kgs	110.00
Citric Acid (Mono)	25 Kgs	87.00
Cresote Oil	50 Kgs	64.00
Cyclohexanone	190 Kgs	148.00
D D Turpentine	200 Ltrs.	145.00
Diacetone Alcohol	195 Kgs	130.00
Diethylene Glycol	230 Kgs	86.00
Dimethyl Formamide	195 Kgs	115.00
Dioctyl Phthalate	200 Kgs	150.00
Di-Pentene	200 Kgs	92.00

EDTA Acid	25 Kgs	448.00
EDTA Disodium	25 Kgs	398.00
EDTA Tetrasodium	25 Kgs	348.00
Ethyl Acetate	185 kgs	102.00
Ethylene Dichloride	200 Kgs	65.00
Ethylene Glycol-mono	230 Kgs	67.00
Formaldehyde	65 Kgs	30.00
Formic Acid	35 Kgs	72.00
Formic Acid	250 Kgs	75.00
Hexamine – Tech	50 Kgs	125.00
n-Hexane	160 Litrs	66.00
Hydroquinone (Imported)	25 Kgs	1,150.00
Isopropyl Alcohol	160 Kgs	124.00
Isopropyl Alcohol (Refill)	160 Kgs	104.00
Maleic Anhydride	25 Kgs	115.00
Methyl Ethyl Ketone	166 Kgs	132.00
Methyl Isobutyl Ketone	160 Kgs	240.00
Methyl Isobutyl Ketone (Refill)	160 Kgs	225.00
Methylene Dichloride	250 Kgs	60.00
Methylene Dichloride (Refill)	250 Kgs	52.00
Mineral Turpentine Oil	50 Kgs	120.00
Monochloro Phenol	50 Kgs	120.00
Nitrobenzene	200 Kgs	125.00
Octanol (2-ethylhexanol)	160 Kgs	135.00
Oleic Acid	50 Kgs	140.00
Oxalic Acid (Punjab)	50 Kgs	66.00

Paraffin Wax (White)	50 Kgs	102.00
Para formaldehyde 91%	25 Kgs	115.00
Perchloroethylene	320 Kgs	155.00
Phenyl Liquid	230 Kgs	115.00
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	125.00
Poly Aluminium Chloride	25 Kgs	30.00
Red Lead	50 Kgs	220.00
Renine	180 Kgs	72.00
Rosin	17 Kgs	125.00
Sodium Acetate	50 Kgs	32.00
Sodium Benzoate	50 Kgs	95.00
Sorbitol	250 Kgs	52.00
Stearic Acid (cosmetic)	50 Kgs	130.00
Styrene Monomer	185 Kgs	115.00
Terpeneol Perfumery	25 Litrs	260.00
Thiourea	25 Kgs	260.00
Toluene	200 Ltrs	97.00
Trichloroethylene	280 Kgs	145.00
Triethanolamine	210 Kgs	115.00
Vinyl Acetate Monomer	185 Kgs	190.00
Xylene Mixed	185 Kgs	103.00
O-Xylene	185 Kgs	120.00

Above prices are given in good faith by : **MR. SUBHASH GHORAWAT**

M/S. CHEMICAL (INDIA) COMPANY

'Eden Plaza', 3rd Floor, 87-Perumber Barrack Road, (Near Doveton Signal), Purusaiwakkam, Chennai - 600007 (India).
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We assume no responsibility for availability of products at quoted prices.

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Organic & Inorganic Chemicals	**Price (Rs/Kg)**
ACRYLIC ACID	108+
DCDA	228+
NBA	97+
BUTYL ACETATE	107+
CAUSTIC POTASH	117+
ACETONE	89+
MDI	170+
BAM	128+
MIX XYLENE	90+
DAA	124+
IPA	94+
MEK	115+
OCTANOL	126+
BUTYAL CELLOSOLVE INT.	125+
MIBK	225+
CYCLO (Taiwan)	144.00
TEA	117+

P.F. 96%	96+
SBC TECH	1950+
MAIZE SEARCH POWDER	36.50+
EAM	152+
ALPHOX 500	162+
MEK	115+
MDI	170+
THF	220.00
ETHYL ACETATE	89+
FORMAL	20+
TOLUENE	94+
GLYCERINE	61+
PINE OIL	124+ INDL
SMBS	37.25+
P.G TECH	118+
OXYLENE	114+
MEG	55+
DEG	95+
METHANOL	35.25+
VAM	103+

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

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
Solvent 646 GOST 18188-72	90 Litres	None
Details : 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 Water content - 2.0% Volatility (based on ethyl alcohol) - 1.20 Acid value, - 0.06 mg KOH/ gr. Coagulation unit, - 35%		

Product Name	Qty	Grade
Detergent Solvent "Solvesso 100 (C4 163-180 GOST 10214-78)	2000 Litres	None
Details : 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
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
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
Potassium Chloride CAS#:- 7447-40-7	100 Tonnes	Industrial
Details : By product low grade.		

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
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 : Leonid Chemicals Pvt Ltd		

Product Name	Qty	Grade
3-(Trifluoro methyl)5,6,7,8-tetrahydro(4,3- a)pyrazine HCl (CAS No. 762240-92-6)	10 Kgs	Industrial
(2,4,5-Trifluoro-phenyl) acetic acid (CAS No. 209995-38-0)	10 Kgs	Industrial
Details : Please Contact for more info		

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		

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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
Sodium Thiosulphate Powder	5 Kgs	Industrial
Details : Photo cleaning		

Product Name	Qty	Grade
Hard Pitch	60 Tonnes	Industrial
Details : We have a requirement of 20 Mts/ 60 Mts.		

Product Name	Qty	Grade
Mineral turpentine oil	2000 Ltr	Industrial
Details : Mineral terpine oil. Pure/cut mixing grade		

Product Name	Qty	Grade
Ethyl Trifluoroacetate (Cas no:- 383-63-1)	3 Kgs	Industrial
Details : Please Contact for more info		

Product Name	Qty	Grade
Caluanie Muelear Oxidize	10 Ltrs	Industrial
Details : 10 Litres & once set will increase the quantity.		

Product Name	Qty	Grade
Phosphorescent Pigments Chemicals	5 Kgs	Industrial
Details : Each color 5 Kg but depend on price.		

Product Name	Qty	Grade
Ditolyl ether	1000 Drums	Chemical
Details : Heat Transfer Fluid CAS-No. 028299-41-4 mm = 198.3 g/mole Range of use: -30 °C-330 °C. Empirical formula: C14H14O Assay of total Ditolyether (gas chromatography): min. 97.5 % Water (K. Fischer): max. 200 mg/kg Characteristic data : Kin. Viscosity (DIN 51561): approx. 6.3 mm2/s Density (DIN 51757): approx. 1035 kg/cm3 Pour point (DIN ISO 3016): approx. –54 °C Neutralization number (acid) (DIN 51558 part 1): approx. 0.01 mg KOH/g Boiling range: 284-294 °C Flash point (DIN 51758): approx. 135 °C Ignition temperature (DIN 51794): approx. 545 °C Lower explosion limit (132 °C): approx. 0.8 % by vol. Upper explosion limit (138.5 °C): approx. 14.5 % by vol. Solubility in water (20 °C) (Quentin Method): approx. 4 mg/l Surface tension (OECD-ring method): approx. 0.04 N/m Thermal conductivity (20 °C): approx. 0.133 W/m k Mean spec. heat (20 °C): approx. 1.58 kj/kg k		

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

Product Name	Qty	Grade
IRON PYRITE POWDER - LR Grade	28 Tonnes	Industrial
EDTA 48% / CAS#: 6381-92-6	3 Tonnes	Industrial
Details : We request you to please send your Techno-Commercial offer as per below given specification:- TECHNICAL DATA SHEET Appearance: Free flowing Dried Powder Packing: 50 Kg Hdpe Bags Applications: Refining.		

Product Name	Qty	Grade
Propargyl Chloride // 3 Chloro Propyne (PC) // 624-65-7	1 Tonnes	Industrial
Details : Propargyl Chloride		

Organic Dyes Global Market Report 2023: Rising Demand for Painting and Coating from Textile Industries Bolsters Growth

DUBLIN, April 21, 2023 /PRNewswire/ -- The "Organic Dyes Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Product (Acid, Basic, Reactive, Direct, Disperse, Sulphur, and Others), By Source (Animal, Plant, and Minerals), By Application, By Region and Competition" report has been added to ResearchAndMarkets.com's offering.

Global Organic Dyes Market is anticipated to increase at a significant rate through 2028.

Organic dyes are natural dyes used to color material that forms a chemical bond with the surface it is applied. Roots, bark, leaves, berries, fungi, wood, animals, minerals, and lichens are among the natural sources used to make many organic dyes. Presently, advanced technologies are used to extract and process goods while maintaining the natural color's veracity. Logwood, walnut crystals, fustic, brazilwood, and hematine are the standard colors that are majorly demanded in the global market.

Organic dyes are biodegradable, eco-friendly, less contaminated, and less allergenic when compared to the alternative. Such properties make organic dyes much safer for the environment and usage around humans, especially for children. It helps preserve the ecosystem and reduces human dependence on unsafe products. To lower the impact of toxic overspill and wastes from the textile production and dyeing process that are released in vulnerable oceans, industries and consumers are ensuring the utilization of non-toxic alternatives, such as organic dyes.

Rising Demand for Painting and Coating from Textile Industries

The use of organic dyes in the coloring of textile fabrics has been trusted by growing environmental consciousness among consumers towards natural products, the renewable nature of materials, less adverse impact on the environment, and sustainability of natural products. According to the reports, 20 percent of available freshwater is polluted by the residue of textile treatment and dyeing, such as formaldehyde, chlorine, and heavy metals.

The demand for organic dyes is growing due to advantages like renewable material, eco-friendly, and helps lessen the adverse impact on the environment. Apart from these, lower health hazards and easy extraction and purification processes lead to increased use of organic materials by industries. It can help enterprises to lower the production cost of their final goods, provide skin-friendly products, and achieve sustainable development goals.

Rising Demand from End Users in Different Industries

Dyes have had an impressive impact on human civilization and trade from ancient to modern civilization. Hence, it has a vibrant trade history and has various applications in diverse fields such as food, medicine, handicraft items, and others. Due to the adverse effect of synthetic dyes on humans and environments, different end-user like textiles, food and beverages, paper, cosmetics, leather, and other industries are switching towards the best sustainable alternative. In the construction industry, it provides aesthetic appeal and durability to floor tiles, walls, masonry, and roof tiles. In the cosmetics industry, it gives color pigment to products like hair dyes, lipsticks, tints, and others.

Worldwide, the total number of trade shipments for dyes in 2022 is 353,432. Hence, the demand for biodegradable products with lower volatile organic compounds (VOC) is rising, leading to increasing demand for organic dyes in the forecasted period as it has all the desired properties.

Efforts to Develop New Products : The introduction of high-quality organic dyes and the rise in research and development activities performed by the prominent players and governments to develop an enhanced product as alternatives in the market are increasing. Many researchers are putting efforts into developing natural dyes that protect them from the harmful effects of synthetic dyes. Favorable government policies and growing awareness of lower pollution levels are expected to thrust the demand for organic dyes in the future.

Recent Development : In July 2022, Warna by Mahogany was a natural dye innovation from Sri Lanka by Hayleys Fabric's PLC. It is extracted from waste material generated by the local furniture industry and passes all the internationally accepted standards. Hence, "Warna

by Mahogany" is a toxic chemicals-free dye, making it a safer alternative for the environment and humans.

Read the full report : https://www.researchandmarkets.com/r/3cz7si

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

Plastics in Electronics Components Technologies and Global Markets Report 2023 with Focus on Components Produced by Injection Molding, Compression Molding, and Encapsulation

This study covers all electronic components where plastics are used to a significant extent. It concentrates on components produced by injection molding compression molding, and encapsulation.

From the early days of valves to the creation of the transistor and later the integrated circuit, much of the progress made by the electronics industry towards ever-greater miniaturization has only been made possible due to the availability of different polymeric materials. The development of numerous novel plastics expressly for use in electrical and electronic device applications has led to the ongoing growth of both the electronics and plastics sectors. Electronics components have seen a large drop in real cost performance over time. This decline can be partially attributable to the availability and performance of novel polymeric materials.

A specific example is the development of the personal computer, where advancements in polymer-based photoresists and plastic encapsulation techniques have made it possible to mass produce high-density memories and microprocessors at a price that makes devices more potent than mainframe computers of thirty years ago available for barely more than the cost of a toy.

The creation of electrical and electronic equipment today uses a variety of plastic materials extensively, from insulator moldings for the largest bushings and transformers to alpha particle barriers on memory devices. Plastics, or more precisely polymers, are used in a variety of applications including equipment casings, protective coatings, wire and cable insulators, printed circuit board components, die-to-attach adhesives, and packaging for individual microcircuits.

The electronics sector is a significant user of high-performance thermoplastic and thermosetting polymers. Almost all engineering thermoplastics (ETPs) are used in some form of electronics component, but standard nylons (polyamides) and thermoplastic polyesters (typically polybutylene terephthalate) are by far the two most common polymer families.

This is particularly true among connectors, which make up the majority of the market for electronic components. Even as the average size of each component used continues to shrink and wall thicknesses can be reduced thanks to advancements in polymer processability and end-use performance, the consumption of engineering thermoplastics in this industry is rising as the use of electronic devices permeates more areas of our working and leisure lives.

ETPs are frequently viewed as commodities by specifiers, particularly in certain types of connectors, and the choice of material is likely influenced by cost as much as by performance. This is much less of an issue in higher-performance applications, but even in these markets, suppliers of high-temperature nylons (a class that includes nylons 46, 4T and polyphthalamides) compete with those of polyphenylene sulfide (PPS), liquid crystal polymers (LCPs), and other polymer types. LCPs are a specific type of thermoplastic polyester. Different varieties of polyaryletherketone, the most prevalent of which is polyetheretherketone, are still further up the performance ladder.

In the market for electronic components, polyimides occupy a certain niche. They are mostly utilized in film form for flexible electronics and come in thermoset and thermoplastic varieties. When thermal stability is not a concern, they encounter some competition from films made of various forms of polyester (polyethylene terephthalate and, to a lesser extent, polyethylene naphthalate). This particular submarket is now expanding quickly.

The study also identifies major material suppliers and key processors. It reviews important new technologies, as well as changes in legislation and industry standards and norms that may have significant effects on markets for electronic components, and it looks at interpolymer competition.

Read the full report : https://www.researchandmarkets.com/r/3cz7si

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SABIC'S TRUCIRCLE™ Used by Garofalo in the First Mono-Material Pasta Packaging with Post-Consumer Recycled Content

SITTARD, THE NETHERLANDS, April 13, 2023 - SABIC, a global leader in the chemical industry, has announced the successful roll-out of another project as part of its TRUCIRCLE™ program to accelerate the implementation of a circular plastic economy. Garofalo, a major Italian pasta manufacturer, has introduced a novel packaging made by GT Polifilm and Polivouga using SABIC's certified circular polypropylene (PP). The sustainable material is derived from advanced recycling, and converted into a Biaxially Oriented PolyPropylene (BOPP) film for this application, which is the first mono-PP pasta packaging material in the market containing 30 percent of post-consumer recycled (PCR) content. Garofalo introduced the first pasta bags made from the new packaging to Italian stores in March 2023.

The PCR content in the bags is based on post-consumer used plastics, which is turned into pyrolysis oil in an advanced recycling process. At SABIC, the pyoil is used in the production of new polymers with the same specifications as virgin plastics from conventional feedstock. Polivouga, a vertically integrated Portuguese manufacturer of flexible films for packaging products uses a SABIC® PP 525PC grade from SABIC's TRUCIRCLE portfolio of certified circular polymers to produce the basic BOPP film for the new pasta packaging solution. GT Polifilm, a specialist in the production of flexible polypropylene products for automated packaging in the food industry, adds a cast PP film to the BOPP film to create a mono-material structure, which is then converted to tailor-made pasta bags. Once used, the mono-PP bags can easily be recycled again in existing PP waste streams.

Abdullah Al-Otaibi, General Manager, ETP & Market Solutions at SABIC says: "For such solutions to work in the long-term, the partners in the material value chain must closely collaborate. With our TRUCIRCLE program, we are pushing for innovative business models to transform our industry from a linear to a circular one and help prevent the valuable material of end-of-life plastic applications from being wasted. Within a year, this remarkable joint project has shown what can be achieved to make this vision come true if all players work together to maximize post-consumer plastic recycling and sustainability."

SABIC's circular materials are produced using a mass balance accounting scheme according to the International Sustainability & Carbon Certification (ISCC) PLUS program, which follows a set of predefined and transparent rules for tracking the material flow across complex supply chains from the feedstock to the final application.

Dr. Sergio De Gennaro, Quality Assurance Manager, Pastificio Lucio Garofalo S.p.A. states: "At Garofalo, we are fully committed to the quality and environmental compatibility of our products. Of course, this innovative new recycled pasta packaging is just one example of our sustainable initiatives, but marks an important step forward. It shows how food manufacturers and packaging suppliers are working together to bring about much needed change. As a packaging product that is both made with recycled content and fully recyclable, it also meets with a better consumer appeal."

While flexible plastic packaging is often the more sustainable alternative, a lot of food is packaged in paper/plastic combinations or laminates which are difficult to recycle and may have a bigger carbon footprint due to higher resource consumption. As a more responsible solution, flexible mono-material with PCR content is potentially the preferred packaging route for a growing number of brand owners and retailers, while it is also supported by EU authorities and NGOs.

Ragionier Talamo, Sole Director at GT Polifilm adds: "The development and manufacture of sustainable and economically viable packaging solutions to help reduce food and plastic waste is firmly rooted in our DNA. The incorporation of recycled content has been a key area of focus for us over the past few years. By supporting the circular economy, adding value to plastics and promoting their recycling into new packaging products, we hope to make a significant contribution to solving the enormous challenge of improving recycling rates and minimizing plastic waste."

Tiago Barros, Executive Manager at Polivouga, comments: "As a producer of flexible films, we are well aware of our responsibilities in turning our

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CATL LAUNCHES CONDENSED BATTERY WITH AN ENERGY DENSITY OF UP TO 500 WH/KG, ENABLES ELECTRIFICATION OF PASSENGER AIRCRAFTS

SHANGHAI, April 19, 2023 /PRNewswire/ -- On April 19, CATL launched condensed battery, a cutting-edge battery technology at Auto Shanghai. With an energy density of up to 500 Wh/kg, it can achieve high energy density and high level of safety at the same time in a creative manner, opening up a brand-new electrification scenario of passenger aircrafts. CATL can achieve mass production of condensed battery in a short period of time.

To address the changes of the super high energy density materials resulting from electrochemical reactions, CATL's condensed battery leverages highly conductive biomimetic condensed state electrolytes to construct a micron-level self-adaptive net structure that can adjust the interactive forces among the chains, thus improving the conductive performance of the cells and in turn the efficiency of lithium ion transporting while boosting stability of the microstructure.

What is more, condensed battery integrates a range of innovative technologies, including the ultra-high energy density cathode materials, innovative anode materials, separators, and manufacturing processes, offering excellent charge and discharge performance as well as good safety performance.

The launch of this cutting-edge technology breaks the limits that have long restricted the development of the battery sector and will open up a new scenario of electrification centering on high level of safety and light weight. At present, CATL is cooperating with partners in the development of electric passenger aircrafts and practicing aviation-level standards and testing in accordance with aviation-grade safety and quality requirements. In addition, we will also launch the automotive-grade version of condensed batteries, which are expected to be put into mass production within this year.

"Meeting customers' requirements is the core driving force that drives technological innovation for CATL," said Wu Kai, chief scientist of CATL. Currently CATL has the world's most extensive technology roadmap for batteries, and has developed the capability to turn fundamental research to industrial application, and then to large-scale commercial applications. For example, in 2021, CATL rolled out the first generation of sodium-ion battery with an energy density of 160 Wh/kg, which has been launched on Chery Automobile during this exhibition. In 2022, CATL unveiled Qilin battery with the highest integration efficiency in the world, and it has started mass production this March. They have been used on multiple high-end BEVs such as ZEEKR, AITO and Li Auto.

As electrification extends from the land to the sky, aircrafts will become cleaner and smarter. The launch of condensed batteries will usher in an era of universal electrification of sea, land and air transportation, open up more possibilities of the development of the industry, and promote the achieving of the global carbon neutrality goals at an earlier date.

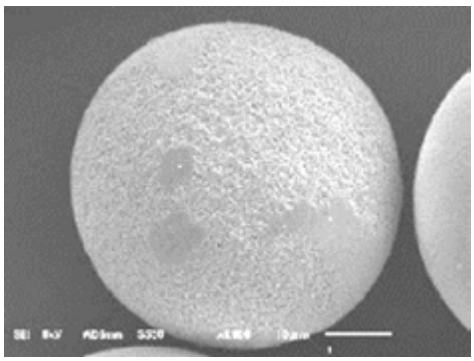
Source : PRNewswire

TORAY INNOVATES RARE EARTH-FREE ZIRCONIA BALL MASS-PRODUCTION TECHNOLOGY TO REVOLUTIONIZE ELECTRONIC COMPONENT, ELECTRIC CAR, AND BATTERY PERFORMANCES

Tokyo, Japan, April 12, 2023 – Toray Industries, Inc., announced today that it has developed the world's first

mass production technology for rare-earth-free zirconia balls. The highly durable balls could grind and mill ceramic materials for multilayer ceramic capacitors (MLCCs) and electrode materials for lithium-ion batteries.

This advance could enhance the reliability diverse products and stabilize their supplies. It could help customers cut manufacturing costs by replacing balls less frequently.

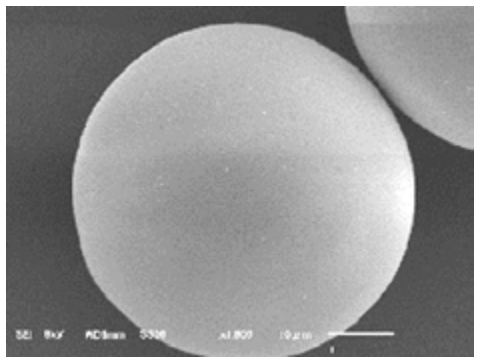


Toray will initiate sample work early in the fiscal year ending March 2024. It aims to begin mass production by the close of the term.

The prime application of zirconia balls is to disperse and powderize materials and polish surfaces. The company developed Torayceram™ high-performance ceramics, used in ceramic materials for MLCCs and electrode materials for lithium-ion batteries.

The growing sophistication of smartphones in recent years has increased demand to improve the reliability and supply stability of raw materials for products. The use of zirconia balls as electrode materials for lithium-ion batteries in electric vehicles and other applications should grow. This has intensified pressures to cut costs and develop more durable zirconia balls.

Toray thus developed a mass production technology that minimizes the degradation of crystal structures on zirconia ball surfaces. It redesigned part of the structure of these balls, making them much more durable that conventional counterparts. This minimizes contamination from zirconia balls in grinding and milling ceramic materials for MLCCs



and electrode materials for lithium-ion batteries, improving and stabilizing the quality of target substances. The redesigned structure enables sintering at 1,300°C or less, compared with 1,500°C for regular processes, for lower carbon dioxide emissions.

Another key benefit of Toray's technology is that it is free of yttria, a rare earth metal oxide that is a common stabilizer in zirconia balls. This eliminates country of origin tracing concerns.

The company will take advantage of the high durability of its technology by exploring ways to regrind the surfaces of zirconia balls and recycle them. It will accordingly collaborate with customers in evaluating a recycling system to help reach Sustainable Development Goals.

Toray will leverage core technologies in organic chemistry, polymer chemistry, biotechnology, and nanotechnology to undertake R&D and conceive innovative materials that drive fundamental social change. In so doing, it will endeavor to materialize its corporate philosophy of contributing to society by creating new value through innovative ideas, technologies, and products.

Source : Toray

PERFORMANCE BOOST FOR ELECTROMOBILITY: EVONIK INVESTS IN BATTERY EXPERT SUPERC

- Chinese company specializes in graphene materials
- Its technology increases the range, robustness, charging speed, and service life of batteries
- Investment strengthens Evonik's growth strategy for battery solutions

Essen, Germany. Evonik has invested in battery specialist SuperC. The Chinese company is a technological leader in graphene materials that improve the range, robustness, charging speed, and service life of lithium-ion batteries. This can solve key limitations of electric vehicles and accelerate the shift to climate-friendly mobility.

"By investing in SuperC, we are supporting a cutting-edge technology with a promising future. High-performance batteries are a crucial factor in accelerating the electrification of road transport and permanently reducing CO2 emissions," says Bernhard Mohr, head of Evonik's venture capital unit. The investment

is made by the Sustainability Tech Fund launched in 2022, which has a total investment volume of €150 million. The Group is thus also strengthening its sustainability goals by investing in an innovative technology and business model. The focus of the fund is on new technologies to reduce emissions as well as innovations that complement Evonik's Next Generation Solutions.

SuperC has developed an innovative process to produce few-layer graphene (FLG) and, in turn, pastes for electrodes in lithium-ion batteries. The addition of graphene increases the electrical and thermal conductivity of the batteries for faster charging and better overall performance. The batteries become also more temperature insensitive. This saves on cooling requirements and reduces the risk of fire. "With our technology, we want to pave the way for the next generation of batteries. We are pleased to have Evonik as a strong and international partner at our side," says Di Sun, CEO of SuperC.

"By working with SuperC, we are expanding our technical know- how and our understanding of the highly dynamic market. This fits perfectly with our growth strategy for battery solutions," adds Stefan Plass, head of the Interface & Performance business line. As one of the world's leading specialty chemicals companies, Evonik is committed to innovative and sustainable e-mobility solutions.

One focus is on improving battery technology: The company's products are used in various components of the batteries, making them more powerful, safer, and more environmentally friendly.

Evonik has also its own global lithium-ion research center in Shanghai. "China's battery industry has logged rapid growth in recent years. With the investment, we create synergies in innovations for battery materials and thus support our local business development," adds Fuliang Xia, President of Evonik Greater China. According to experts, global demand for lithium- ion batteries will increase fivefold by 2030.

Hefei Haizhou New Material Co., Ltd., also known as SuperC, was founded in 2011 in Dongguan, China. It is considered a pioneer in graphene-based electrode material for lithium-ion batteries. The company's materials are already used in products from leading Chinese battery manufacturers. SuperC plans to open a new production facility in Hefei, a key location for the automotive industry, in 2023.

Source : Evonik

PROVISION OF PRODUCTION TECHNOLOGY LICENSE IN INDIA FOR ELECTROLYTES USED IN LITHIUM-ION BATTERIES

MU Ionic Solutions Corporation (MUIS; Head office: Chiyoda-ku, Tokyo; President and CEO: Kenichiro Mawatari), a member of the Mitsubishi Chemical Group (the MCG Group), hereby announces it has signed a contract with Neogen Chemicals Limited (Neogen; Head office: Maharashtra, India) regarding the provision of production technology license in India for electrolytes used in lithium-ion batteries (LIB).

Electrolytes for LIBs that are produced by the MCG Group feature a high power output performance by suppressing side reactions in the electrode through the use of -proprietary additive technologies. Also, automotive applications are expanding given outstanding durability and high degree of safety of these electrolytes. The MCG Group has production and sales sites in four countries, and is bolstering its production capacity in line with the expansion in demand for xEVs (electric vehicles). Furthermore, the Group is moving forward with the consideration of providing licenses and outsourcing production to accelerate growth. This deal is a part of the Group's strategy to provide licenses for the electrolyte production.

The demand for the automotive application of LIBs is rapidly increasing, mainly for EVs owing to the heightened awareness of the environment globally. In the market for automotive applications, the annual average growth is anticipated to be close to 30%. The trend to localize production and parts/key materials procurement in each region is becoming more active. India is also promoting a policy to make electric vehicles constitute 30% of total new passenger

vehicle sales in 2030 by enhancing laws and regulations, and subsidy policies. The country is endeavoring to attract technical support and companies from outside the country. This time around, the MCG Group aims to respond to this demand. To this end, the Group plans to contribute to the strengthening of the supply system for LIB electrolytes in India by granting production technologies for electrolytes to Neogen, a chemical manufacturer in India with a forte in lithium-related products. Accordingly, the MCG Group will confirm on the location for the new production facilities for electrolytes, for which MUIS will grant the license, and the launch of operations after discussions with Neogen further out.

The MCG Group is positioning EVs/mobility as a focus market. The Group plans to strengthen the global supply system to respond to the brisk demand for LIB electrolytes. In addition to this, the Group aims to realize a carbon neutral society by providing products that contribute to a reduction in environmental impact.

Source : Mitsubishi Chemical Group

CABOT CORPORATION LAUNCHES ENTERA™ AEROGEL PARTICLES FOR USE IN THERMAL BARRIERS FOR LITHIUM-ION BATTERIES

Cabot Corporation today announced the launch of its new ENTERA™ aerogel particles portfolio. ENTERA aerogel particles are a thermal insulation additive designed to enable the development of ultra-thin thermal barriers for electric vehicle (EV) lithium-ion batteries. In this portfolio, Cabot has launched three ENTERA aerogel products that formulators can incorporate into a range of thermal barrier forms including blankets, pads, sheets, films, foams and coatings.

Vehicle fleets are increasingly transitioning from internal combustion engines to EVs. To meet increased EV demand, battery manufacturers are working diligently to develop higher performing lithium-ion battery packs with increased range. These higher energy batteries require more advanced thermal management solutions, including thermal barriers to mitigate thermal runaway, a rare event in which a battery cell overheats to dangerous levels and the heat propagates to neighboring cells within the module or battery pack due to malfunction or damage. As a result of the potential severe risks from an EV battery fire, additional regulations, such as the United Nations' Global Technical Regulation 20 on Electric Vehicle Safety (UN GTR No. 20) and China's GB 38031-2020, have been implemented to maximize occupant safety. Aerogel has emerged as a leading, performance-enabling thermal barrier material that is enabling EV manufacturers to meet critical industry safety standards.

Cabot's ENTERA aerogel products not only help battery and EV manufacturers comply with these new regulations, but they also provide a lightweight thermal barrier solution that offers low thermal conductivity combined with thermal stability. The Cabot ENTERA aerogel particles portfolio ranges in size from microns to millimeters and includes ENTERA™ EV5200 aerogel, ENTERA™ EV5400 aerogel and ENTERA™ EV5800 aerogel.

Furthermore, with greater than 90 percent air volume, Cabot's ENTERA aerogel is up to 20 times lighter than traditional insulation additives used in thermal barriers. Using lightweight materials in EVs is important to offset the weight of EV batteries as well as to improve efficiency, extend driving range and increase the lifespan of the battery.

"We have been producing aerogel for 20 years and the expansion of our aerogel capabilities for use in thermal barriers for batteries is a natural progression in our commitment to support the tremendous growth of the battery market," said Jeff Zhu, executive vice president and president, Performance Chemicals segment and Asia Pacific region. "Our new ENTERA aerogel particles provide strong formulation flexibility and play an important role in improving passenger safety, energy efficiency and extended range for EVs. We are committed to developing solutions that solve some of the world's most pressing sustainability challenges and with these new products, we are well positioned to further support the global transition to vehicle electrification and enable a lower carbon future."

Cabot has a full range of products that serves the EV battery market. It is the only global manufacturer with a complete conductive additives product portfolio for battery applications, including conductive carbons, carbon nanotubes, and carbon nanostructures, as well as blends and dispersions of these additives to deliver optimal performance. Conductive additives play a critical role in lithium-ion battery chemistry and provide a pathway for electrons to move within the anode and the cathode which enables charging and discharging. Additionally, Cabot offers fumed alumina for separator and cathode active material coatings.

Source : Automotive Technology

UPS HEALTHCARE OPENS FIRST DEDICATED FACILITY IN GERMANY IN CLOSE PROXIMITY TO COLOGNE AIR HUB

UPS Healthcare has opened a dedicated healthcare logistics facility in Giessen, Germany, creating up to 150 new jobs.

The 27,200sq m GMP and GDP compliant space will house over 30,000 pallet positions capable of supporting storage of a range of healthcare products at 2°C to 8°C, 15°C to 25°C and up to -20°C degrees.

"We have created a truly pan-European cold chain network, capable of providing end-to-end range of quality specialist storage and handling services," said UPS Healthcare's president, global logistics and distribution John Bolla.

"In opening our first facility in Germany, we can provide greater visibility and control to ensure our customer's patient-critical products are delivered where they need to be, at the right time and at the right temperature."

The roof of the facility features a solar power system that is expected to produce more than 850,000 kWh of electricity annually – more than the facility consumes. The building also meets the 'Gold Standard' of the German Sustainable Building Council, UPS said.

The company noted that the new facility's proximity to UPS' European air hub at Cologne Bonn Airport and UPS Healthcare's European hub in Roermond "also provides customers with shorter domestic and global transit times, potentially increasing production windows and offers next-day delivery to 80 per cent of Europe as well as access to major ports including Rotterdam, Antwerp and Amsterdam".

Throughout 2023, UPS Healthcare said it would add over 200,000sq m of warehouse space, of which about half will be in Europe. This space will add to its existing 217 facilities with a total of over 1.5 million sq m of cGMP and GDP-compliant healthcare distribution space in 37 countries and territories. Through these investments, UPS Healthcare will have more than doubled its presence in dedicated healthcare facilities in 2023 compared to 2020.

Source : World Pharma Today

CHARLES RIVER LAUNCHES HELPER PLASMID TO STREAMLINE ADENO-ASSOCIATED VIRAL VECTOR MANUFACTURING

Charles River Laboratories International, Inc. announced the launch of its off-the-shelf pHelper offering, which is designed to secure supply and streamline adeno-associated virus (AAV)-based gene therapy programs from early discovery through commercial manufacturing. It is available immediately in Research Grade (RG), High Quality (HQ), and Good Manufacturing Practice (GMP)-grade.

Helper plasmids are the latest in a comprehensive collection of contract development and manufacturing organization (CDMO) products and services developed to simplify complex supply chains and safeguard viral vector packaging in cell and gene therapy programs. This plasmid product is reliably manufactured and released with Chemistry, Manufacturing and Controls (CMC) information and a Certificate of Analysis (COA) to support regulatory filings and approval applications.

Using standard off-the-shelf plasmids such as pHelper AAV-based gene therapy developers can both accelerate production timelines and reduce costs while leveraging significant features and benefits:

- Immediate, reliable supply
- Fit-for-purpose, consistent quality
- Kanamycin antibiotic resistance
- Animal component-free production
- License and royalty-free, from research to commercial
- History of use in AAV production for a range of serotypes, therapeutic trans-genes, and scales

Gene Therapy Spotlight Launch

Charles River will officially launch its ready-to-use, off-the-shelf helper plasmid offering during an invite-only showcase event on March 13, Gene Therapy Spotlight: Investment, Regulatory and Development Perspectives,

held in conjunction with the Advanced Therapies Congress, London, UK.

Alongside a wealth of expert speakers and panel discussions, Ramin Baghirzade, PhD, Senior Director, Global Head Commercial, Gene Therapy CDMO Services will present: The Role of Plasmid DNA in Expediting Gene Therapy Manufacturing and Beyond.

Plasmid DNA CDMO Services

The addition of pHelper plasmids follows the launch of the eXpDNA™ plasmid manufacturing platform, established over decades of plasmid DNA CDMO scale-up experience, which significantly reduces plasmid production turnaround time for advanced therapy medical product (ATMP) and vaccine developers.

In recent years, Charles River has significantly broadened its cell and gene therapy portfolio with several acquisitions and recent expansions to simplify complex supply chains and meet growing global demand for plasmid DNA, viral vector, and cell therapy services. The Company offers end-to-end support and supply chain simplification for cell and gene therapy developers. Combined with the Company's legacy testing services, Charles River offers an industry-leading "concept-to-cure" solution for advanced therapies.

Source : World Pharma Today

MERCK PRESENTS ITS LATEST COSMETICS INNOVATIONS AT "IN-COSMETICS" 2023

- Ronaflux® pigments: Metallic look without any metal content
- Zinc oxide UV filters: Launch of new, high-purity and sun protection solutions for natural cosmetics
- Skin renewal thanks to algae-based actives

Merck, a leading science and technology company, is presenting its latest cosmetics innovations at this year's in-cosmetics trade show, which is taking place from March 28-30 in Barcelona, Spain.

Ronaflux® pigments: Metallic optical effects without any metal content

Among other things, Merck will present its innovative Ronaflux® pigment range that features high color intensity and pronounced metallic optical effects achieved entirely without the use of metals.

"A striking, color-intense look with a metallic allure reflects the current popular trend in color cosmetics. At the same time, it's necessary for manufacturers to meet stricter regulatory requirements and to ensure the stability of the colorants and pigments," said Michael Weiden, Head of Commercial EMEA within the Surface Solutions business unit of the Electronics business sector of Merck. "With our Ronaflux® pigments, which are based on an entirely new technology, our customers can meet these challenges while achieving unique effects that are not yet commercially available."

The technology behind Ronaflux® pigments is both sophisticated and simple. Ultrathin and highly stable carbon layers are homogeneously precipitated in a gas phase onto the pigments – a major precondition for spectacular shine effects. The carbon layers intensify the colors of the effect pigments, thus making brilliant shades of blue and green possible without the addition of chrome oxides, Prussian blue or other colorants. This enables manufacturers of eye makeup and lipsticks to meet the strict regulatory requirements while offering brilliant, metallic blue and green shades that do not contain any metal-based pigments. Information on the individual Ronaflux® pigments can be found here.

Zinc oxide-UV filters: For a new generation of sunscreens

Merck will also be showcasing its newly expanded UV filter portfolio with the addition of Eusolex® Z-BASE and Eusolex® Z-TEC, zinc oxide filters that offer highly effective protection against both UVB and UVA rays. Eusolex® Z-TEC is extremely transparent on the skin even in high concentration formulations such as pure mineral high-SPF sunscreens. The products meet the highest quality and purity standards customary in the pharmaceutical industry, are approved in accordance with the COSMOS standard, and are Halal-certified. With the new UV filters, Merck offers solutions for the growing market for environmentally sound and pure mineral sunscreens.

RonaCare®-cosmetic actives from the ocean: natural, algae-based skin renewal
Two new additions to the extremely effective algae-based skin renewal portfolio will also be presented. RonaCare® JouvaMer and RonaCare® ReviMer have been developed from brown seaweed from the coast of Brittany in France. RonaCare® JouvaMer, an extract of Pelvetia canaliculata brown algae, is an anti-aging booster that reduces wrinkles

by stimulating collagen synthesis. In addition, it protects and supports the extracellular matrix for denser, smoother skin. RonaCare® ReviMer, an extract of Fucus serratus brown algae, shows preventive anti-pollution effects while enhancing the skin's structural properties. It also protects the skin's hyaluronic acid for firmer, more elastic skin, thus reducing wrinkles.

RonaCare® JouvaMer and RonaCare® ReviMer can be used in a wide variety of topical products ranging from daily skincare to dermocosmetics. Together with RonaCare® RenouMer, which has already been launched, they complete the Merck offering for algae-based skin renewal. All products are efficacy proven and meet the current requirements as regards sustainability, traceability and respect for biodiversity. The products are Halal-certified and comply with the COSMOS standard.

With its RonaFlair® portfolio of functional fillers, Merck is also presenting alternatives to talc, an ingredient commonly used to date in skincare products and cosmetics more and more suppliers wish to replace. Trade visitors will find Merck at booth Q40.

Source : Merck

CHEMICAL TECHNOLOGY

MONDI INCREASES FUNCTIONALBARRIER PAPER CAPACITY TO MEET GROWING CUSTOMER DEMAND

- Mondi is investing in new technology to increase capacity and meet growing demand for paper-based packaging solutions.
- The FunctionalBarrier Paper range offers a fibre-based, recycle-ready packaging alternative to non-recyclable plastic packaging.
- Investments across multiple sites include: a new extruder, the rebuild of an existing extruder, and improvements in efficiency and machine utilisation.

13 April 2023 – Mondi, a global leader in packaging and paper, is investing in innovative technologies to increase FunctionalBarrier Paper capacity in order to meet the growing demand for sustainable paper-based packaging solutions.

Mondi's range of FunctionalBarrier Paper offers tailored barrier properties that reduce the amount of plastic used in packaging, supporting the development of a circular economy. The range is being supported with an investment in a new extruder at Mondi Coating Štětí (Czech Republic). This will comprise the construction of a production building which will house state-of-the-art machinery such as an extrusion coater and a slitting machine. Production is expected to start in 2024.

In addition, investment is currently underway at Mondi Jülich (Germany) with the rebuild of an existing coater. Two new dispersion coating stations will improve barrier properties by ensuring good coverage on the base paper. The construction of a new coating kitchen is also part of the rebuild and will enable the pre-coating of base paper and expand the offering to include more paper grades, especially containing recycled content. These investments underpin the advantage of Mondi's integrated value chain, from responsible sourcing, to production, coating and packaging converting into the final product. Mondi will also be investing in and optimising its Örebro (Sweden) production facility, to further improve production of its FunctionalBarrier Paper range, as well as create additional employment.

As a replacement for plastic films and laminates, the FunctionalBarrier Paper range offers fibre-based packaging alternatives that are particularly suitable for fast-moving consumer goods (FMCG) and can be recy-

cled in existing paper waste streams across Europe. With varying barrier levels, the range is tailor made for industrial and eCommerce applications as well as personal care, frozen food and chocolate packaging.

Marko Schuster, COO Functional Paper & Films, Mondi comments: "We are seeing a strong drive in the end markets to reduce the use of plastic and move towards more sustainable paper-based packaging solutions. Our FunctionalBarrier Paper range reflects Mondi's commitment to this and promotes a circular economy, in line with our MAP2030 goals. We are excited to expand the portfolio and enable our customers to make a smooth transition to more sustainable packaging solutions to meet the growing needs of their consumers."

Source : Press Release

TORAY AND PARTNER DEMONSTRATE INEDIBLE BIOMASS-BASED SUGAR MANUFACTURING TECHNOLOGY THAT COULD PAVE WAY TO SUSTAINABLE FIBERS, RESINS, AND FILMS

Tokyo, Japan, April 17, 2023 – Toray Industries, Inc., announced that it and Mitsui DM Sugar Co., Ltd., have jointly demonstrated and established a basic technology to manufacture sugar derived from inedible biomass (see note 1), a common raw material in fiber and resin production. The biomass includes surplus bagasse (note 2), a pulpy residue from sugarcane processing, and pulp that results from squeezing cassava (note 3) at starch factories.

Bringing this technology together with another that Toray is developing to create monomers from sugars should contribute to a circular economy by making it possible integrate the production of biomass-based polymers for fibers, films, resins, and other offerings.

This demonstration project entailed Toray verifying a process to separate, purify, and concentrate cellulose-derived sugars in inedible biomass. It leveraged a membrane-based bioprocess that combines the company's water treatment membrane technology and enzymes that employ biotechnology. Toray undertook this effort at a demonstration facility in Thailand as part of a project that the New Energy and Industrial Technology Development Organization (NEDO) is supporting. The company proved that carbon dioxide emissions from this process are less than half those of conventional production setups that concentrate sugar solutions by evaporating water

In 2022, Toray developed a 100% bio-based adipic acid, a raw material for polyamide 66 (nylon 66), from sugars derived from inedible biomass. This achievement came from using a proprietary synthesis technique combining the company's microbial fermentation technology and chemical purification technology that harnesses separation membranes. The recent demonstration was a first step toward creating a technology to make cellulosic sugar from biomass, putting it on track to mass production. The company now looks to establish an integrated technology to manufacture fiber and resin from abundant agricultural residue, avoiding competition with the food chain

Toray looks to set up a structure to supply cellulosic sugar in collaboration with Thai sugar refineries and starch manufacturers and other companies using biomass resources. It will endeavor to upscale technology from an effort under development to produce adipic acid from cellulosic sugar. In providing cellulosic sugars to chemical companies around the globe, Toray seeks to help materialize a circular economy by replacing petroleum-based chemicals with plant-derived offerings that are not part of the food chain.

Toray is leveraging a basic policy of creating and deploying innovative new materials and technologies for tomorrow in entering new fields while drawing on internal and external collaboration to accelerate research. As part of this approach, it will engage in open innovation for membrane bioprocessing with players in different industries, establishing supply chains and providing solutions with companies using biomass and cellulosic sugar.

The technology announced is a fruit of NEDO's Demonstration Project for an Energy-Saving Cellulosic Sugar Production System using Bagasse under International Demonstration Project on Japan's Energy Efficiency Technologies. The demonstration plant is at a site in Udon Thani Province, Thailand, of Cellulosic Biomass Technology Co., Ltd., which Toray and Mitsui Sugar Co., Ltd., set up in January 2017. There, Toray verified and assessed manufacturing process energy savings, production performance, and the economic feasibility of this production system from August 2018 through December 2022. It completed the demonstration in March 2023. The Thai government looks for the new technology to contribute significantly to materializing the Bio-Circular Green Economy model, which the Thai Government deployed as a strategy for national development and post-pandemic recovery.

Source : Toray

DUPONT ANNOUNCES KEVLAR® EXO™, A GROUNDBREAKING NEXT-GENERATION ARAMID FIBER

- Kevlar® EXO™ offers an unmatched combination of protection, lightness and flexibility
- Law enforcement officers and military personnel to be the first to experience the new fiber in soft body armor

WILMINGTON, Del., April 14, 2023 – DuPont (NYSE:DD) today unveiled Kevlar® EXO™ aramid fiber, the most significant aramid fiber innovation in over 50 years and an entirely new technology platform developed to serve endless applications where performance and protection is required in the midst of intense and demanding conditions. Life protection will be the first of many Kevlar® EXO™ use cases that will offer an unprecedented combination of lightness, flexibility and protection from an aramid fiber.

DuPont™ Kevlar® has long been the advanced material behind high-performing body armor that protects those who serve. Now, with body armor crafted using Kevlar® EXO™, military and law enforcement officers can experience previously unavailable levels of ballistic protection without compromising on mobility and comfort. With unmatched pliability, Kevlar® EXO™ contours to curves and body lines, providing a more body-inclusive solution while still offering maximum protection.

"We've spent over a decade developing, refining and perfecting Kevlar® EXO™, and the result is an industry-altering platform that has catapulted our life protection capabilities to a whole new level," said Steven LaGanke, global business leader, DuPont Life Protection. "Developed and tested by leading materials experts at DuPont, Kevlar® EXO™ offers never-before-seen ballistic and thermal performance while also providing a flexible and lightweight solution that empowers users to operate at peak performance. Whether for military members, law enforcement officers, private security or emergency responders, pound for pound, Kevlar® EXO™ users can better manage energy output even during the most demanding physical tasks."

First-of-its-kind Kevlar® EXO™ aramid fiber is incomparably better and more durable than even the highest-performing soft body armor materials available. Kevlar® EXO™ offers the following benefits:

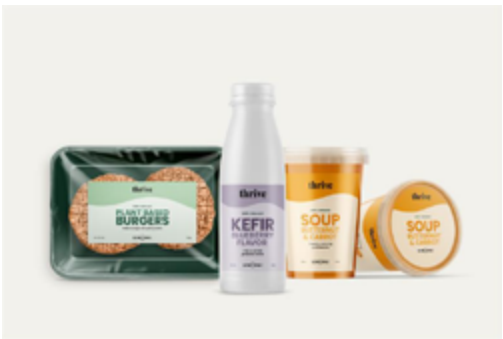
- The highest ballistics performance among all aramid fibers without compromising on weight, enabling the best-in-class, lightest weight ballistics soft armor solutions available on the market today
- Peak flexibility, offering increased comfort and mobility, contouring to curves and body lines with less restriction for maximum defense, when paired with exceptional carrier design
- Inherently flame- and temperature-resistant; melt- and ignite-proof up to 500°C (932°F)
- Delivers the same level of protection after five years as it provides on day one
- Made in the USA at DuPont's new manufacturing facility in Spruance, Virginia
- Endlessly customizable wearability for use case and body type

DuPont will debut Kevlar® EXO™ at the Best Ranger Competition (April 14-16, 2023), which brings together some of the United States military's most talented soldiers to go head-to-head in a grueling competition that simulates the physical and mental challenges of combat. At this year's competition, United States Army Rangers will be the first soldiers in the world to wear body armor vests made with Kevlar® EXO™, enabling them to experience peak flexibility and comfort as they conquer each challenge.

Source : Dupont

AVERY DENNISON AND DOW LAUNCH BREAKTHROUGH HOTMELT LABEL ADHESIVE TO ENHANCE PACKAGING RECYCLING

- Dow and Avery Dennison have co-developed an innovative hotmelt label adhesive that enables filmic labels and packaging (PP/PE) to be mechanically recycled together.
- The new olefinic hotmelt adhesive is the first of its kind on the label market, designed for chilled food applications.
- The solution is approved by Recyclass for recycling in the HDPE colored stream in European markets.



HORGEN, Switzerland / OEGSTGEEST, the Netherlands — April 13, 2023 — Dow (NYSE: DOW) and Avery Dennison have co-developed an innovative and sustainable new hotmelt label adhesive solution that enables polyolefin filmic labels and polypropylene or polyethylene (PP/PE) packaging to be mechanically recycled together in one stream. The adhesive is the first of its kind on the label market and is approved by Recyclass for recycling in the HDPE colored stream - Class B.

Hotmelt adhesives offer excellent performance in labels for chilled applications (such as food), but standard hotmelts reduce the usability of recycled PP/PE material. Because this new olefinic hotmelt is based on the same chemistry as PP/PE packaging, when it is combined with a polyolefin facestock, the label and packaging can be treated as a mono-material and recycled together. It therefore offers better recyclability than standard hotmelts without compromising performance.

The new adhesive's development was driven by Avery Dennison's design-for-recycling thinking and made possible by Dow's polymer science expertise. It is based on Dow's AFFINITY™ GA polyolefin plastomers and sold by Avery Dennison under the name CF3050 in the Europe, Middle East, North Africa (EMENA) region.

"The joint launch of this new olefinic hotmelt is a great example of how collaborating with partners across the supply chain, like Dow, is key to deliver innovations that help reduce waste, enable the circularity of plastics, and advance the circular economy," says Jarkko Pitko, senior research associate at Avery Dennison Materials Group EMENA.

"It is Dow's goal to deliver 3 million metric tons per year of circular and renewable solutions by 2030," adds Imran Munshi, global marketing manager, Dow Packaging & Specialty Plastics. "Collaborations like this will help accelerate our contributions towards a circular economy for plastic packaging."

Source : Press Release

INEOS STYROLUTION INTRODUCES STYRENICS BASED "GREEN COMPOUNDING" WITH CERAMIC-LIKE APPEARANCE

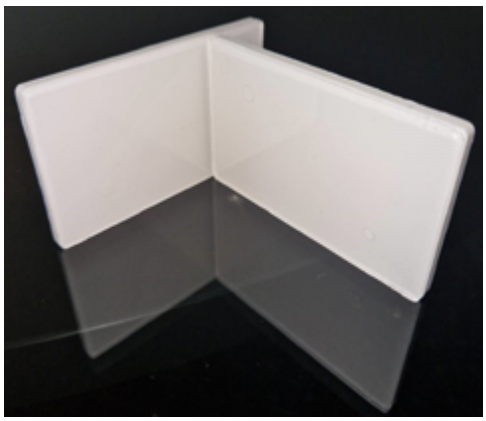
- Initial interest from producers of hygienic consumer items
- Food contact compliant solution available as well

INEOS Styrolution, the global leader in styrenics, has announced that a range of styrenics based polymers are an effective and sustainable alternative for ceramics, compared to traditional resin-based applications. The styrenics based approach allows for recycling and there is no loss of the distinctive appearance of ceramics. In addition, energy consumption during production is significantly lower using a styrenics based solution than firing ceramics.

Together with partner Microfol Compounding [1], INEOS Styrolution has been evaluating a range of polystyrene and SBC[2] based solutions to act as a substitute for ceramics. The results have been very compelling, delivering excellent properties for appearance, feel and weight. In fact, the results were so convincing that producers of hygienic consumer items, such as bath tubs, sinks or soap dishes, have signaled early interest in reviewing the data and application prototypes.

The SBC material used in this project is INEOS Styrolution's Styroflex®, a copolymer with the properties of a thermoplastic elastomer (S-TPE), suitable for extrusion (including both blown and cast film) and injection molding. In particular, Styroflex contributes significantly to an

increased impact strength of the new material. Today's announcement comes only weeks after Styroflex has proven to be a superior cost-effective binder for bio based products like cork. Combining the new compounding solution with NAS®, a stiff, amorphous styrene methyl methacrylate (SMMA) copolymer also results in a food contact compliant solution.



Peter Hofmann, Managing Director, Microfol Compounding, says: "At Microfol, we love finding innovative solutions to challenges in plastics. We are excited to be part of a development that may change how we work with ceramics, a material that is around for almost 30,000 years."

Stefan Meier, Business Development Manager at INEOS Styrolution, comments: "The versatility of styrenics continues to amaze us. The material – we also refer to "Ceramic White" – is a viable alternative for many uses and its recyclability always comes as a very much appreciated bonus on top."

Source : Ineos Styrolution

MERGERS AND ACQUISITIONS

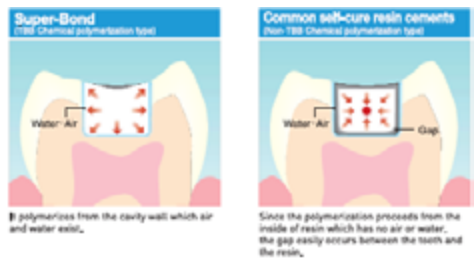
SUPER-BOND™ DENTAL ADHESIVE TO LAUNCH IN BRAZIL

SHOFU INC. (Tokyo: 7979; President & COO: TAKAMI Tetsuo), SUN MEDICAL CO., LTD. (Head Office: Moriyama, Shiga; President & CEO: NAKAJIMA Yoshiyuki) and Mitsui Chemicals, Inc. (Tokyo: 4183; President & CEO: HASHIMOTO Osamu) today announced that Shofu Dental Brasil Comercio de Produtos Odontologicos Ltda. (Shofu Brasil; Head Office: Sao Paulo, Brazil; President: HARASHIMA Tomomi), a sales subsidiary of SHOFU, will launch Brazilian sales of SUN MEDICAL's Super-Bond™ dental adhesive in June 2023.

Employing 4-methacryloxyethyl trimellitate anhydride (4-META) as a dispersion-aiding monomer and tributylborane (TBB) as a polymerization initiator, Super-Bond™ is an acrylic resin cement made for use as a dental adhesive. It is referred to in academic literature as a 4-META/MMA-TBB resin. SUN MEDICAL began producing and selling the product in 1982, and since sales first began in Japan, the material has become a favorite among dentists due to its excellent adhesive properties and ample track record of effectiveness. Super-Bond™ finds use in a wide range of applica-

tions, including stabilizing mobile teeth, forming direct resin-bonded bridges, and enabling the adhesion of brackets and ceramic prostheses. The material enjoys widespread use in clinical settings around the world, with exports already going out to the U.S., Europe, China and South Korea.

Super-Bond™ is made up of a polymer-



ization initiator, a liquid and a polymer powder, and exhibits excellent adhesion to tooth material (enamel/dentin), dental alloys and ceramics alike. The product's mechanism sees Catalyst V, which has TBB as its main component, react with water and oxygen to serve as a polymerization initiator. Super-Bond™ is especially notable for its adhesion to tooth material, which is difficult to keep completely dry: since hardening begins at the adhesive interface, the product is able to exhibit better adhesive strength and adhesive durability here than conventional resin cements.

Super-Bond™ recently received pharmaceutical approval in Brazil, where the dentistry market looks set for growth going forward. This then prompted the decision to begin sales in this market, helping those in the country to keep their natural teeth for longer. Starting with an exhibition at CIOCE 2023 – an international dentistry conference set to be held in Fortaleza over May 6–9, 2023 – efforts will be made to gradually introduce the product across the country via KOL marketing at seminars and other such venues.

Comment from President HARASHIMA Tomomi of Shofu Brasil, which will sell the material:

We are honored to announce the Brazilian launch of Super-Bond™, which has been held in high regard among dentists for some 40 years. Based on its excellent clinical results so far, we believe that sales of the product will aid dental treatment in Brazil, where minimally invasive surgery has been on the rise.

Source : Mitsui Chemicals

INDORAMA VENTURES AND POLYMATERIA SIGN EXCLUSIVE PARTNERSHIP TO ENABLE HYGIENE CUSTOMERS TO PRODUCE BIODEGRADABLE WIPES AND MASKS THROUGH BIOTRANSFORMATION TECHNOLOGY

Bangkok, Thailand & London, UK - 14 March 2023 - Indorama Ventures Public Company Limited (IVL), one of the world's leading sustainable chemical companies, and technology specialist Polymateria Limited have signed an exclusive 10-year partnership to help household brands bring biodegradable nonwoven hygiene products to the market through biotransformation technology.

This collaboration provides a new solution for dealing with essential items like facemasks and wipes once they have been used, ensuring they can return safely to nature without leaving behind any microplastics or toxic residue. It is specifically designed to tackle plastic leaking into the environment as unmanaged waste, meaning it is neither collected for landfill nor recycled. Given that most of the plastic in our oceans originates as unmanaged waste on land, addressing the unmanaged waste challenge is key. This partnership aims to do just that for essential hygiene items.

IVL's exclusive right to use Polymateria's unique biotransformation technology for nonwovens supports application in non-virgin resin recycling while providing a solution for 'fugitive' used articles, especially those items that end up in the natural environment. This biotransformation process involves the plastic transforming into a bioavailable wax in the open terrestrial environment, whereupon the wax is fully consumed by bacteria, microbes and fungi, leaving just carbon dioxide, water, and biomass. The pulp component is inherently biodegradable under similar conditions.

Innovating for more sustainable end-consumer products is in the DNA of both IVL and Polymateria. Yash Lohia, Chairman of IVL's ESG Council, said: "I am delighted with this 10-year partnership. After an extensive search and technical due-diligence process, Polymateria's technology is clearly a step above solutions of the past and fits very well with IVL's sustainability strategy. I look forward to seeing these products on supermarket shelves in the future, hopefully being marketed by some of the biggest brands in the world."

Shachar Rachim, CEO of IVL's Hygiene Business, added: "This is a great example of where technically focused companies work together on a common challenge, using their respective technologies in synergy to achieve a unique, and valuable, product proposition. It's a positive direction for the market."

Nonwovens made by IVL using Polymateria's technology have been independently tested against, and meet the criteria in, the BSI PAS 9017 standard for the biodegradation of polyolefins in an open-air terrestrial environment published by the British Standards Institution in October 2020. This standard and/or its criteria - the first in the world to ensure plastic can biotransform in the open terrestrial environment without creating any microplastics - is being adopted around the world including in India, Malaysia, the Philippines and Hungary. Polymateria CEO Niall Dunne said: "Polymateria was founded to help tackle plastic pollution at scale. Through our latest partnership with IVL, this is exactly what we are delivering. I am glad we have found long-term partners who share our commitment to science and evidence."

Source : Indorama

AMCOR FIRST FLEXIBLE PACKAGING COMPANY TO OFFER CERTIFIED-CIRCULAR PLASTICS IN AUSTRALIA AND NEW ZEALAND

ZURICH, April 13, 2023 /PRNewswire/ -- Amcor (NYSE: AMCR) (ASX: AMC), a global leader in developing and producing responsible packaging solutions, has placed its first commercial order of certified-circular polymers leveraging ExxonMobil's Exxtend™ technology for advanced recycling for use in packaging for the Australian and New Zealand market. The order will make Amcor the first flexible packaging company to offer certified-circular plastics in this market, which supports partial displacement of fossil-based feedstock and meets growing consumer demand for plastic circularity.

Using its Exxtend™ technology, ExxonMobil offers certified-circular polymers with the International Sustainability and Carbon Certification (ISCC) PLUS certification that are identical to polymers made from conventional fossil feedstock. The certified-circular polymers can be used in existing applications, that otherwise require the use of virgin resins.

Amcor's Sustainability Director, Asia Pacific, Richard Smith, said this order is another step toward helping its customers achieve circularity of their flexible packaging in Australia and New Zealand and meet Australia's National 2025 Packaging Targets:

"We are excited to provide our customers in Australia and New Zealand access to this important resource, and to contribute to developing more sustainable solutions that help our customers and their brands continue to meet consumer needs."

Kwee-Lin Chan, General Manager, Asia Pacific Advanced Recycling and Sustainability at ExxonMobil, said: "We are proud to work with Amcor to bring a new certified-circular solution to the ANZ market. We look forward to continuing our work with Amcor to develop products that deliver exceptional performance, while also supporting the circular economy."

Source : PRNewswire

EVONIK'S VESTAKEEP® I4 3DF PEEK FILAMENT BIOMATERIAL WAS USED IN THE FIRST US SURGERIES FOR 3D PRINTED SPINAL IMPLANTS

Curiteva's world's first 3D printed spinal implants for commercial use are based on Evonik's VESTAKEEP® i4 3DF biomaterial filament.

VESTAKEEP® i4 3DF is the world's first implant-grade filament based on PEEK for use in medical 3D printing of human surgical implants
Curiteva's world's first 3D printed spinal implants for commercial use are based on Evonik's VESTAKEEP® i4 3DF biomaterial filament
Combination of Curiteva's technology and Evonik's cutting edge material offers the possibility of enhance integration and healing for spinal surgery

Allentown (PA), USA. History was made a few days ago with the first US surgeries involving a unique spinal implant made from Evonik's VESTAKEEP® i4 3DF PEEK filament biomaterial. Created by US-based technology company, Curiteva, the high-tech implant is cleared by the US Food and Drug Administration and is the world's first 3D printed, fully interconnected porous polyether ether ketone (PEEK) implanted structure of its kind for commercial use.

PEEK-BASED TECHNOLOGY FOR AN IDEAL INTERBODY IMPLANT
The surgeries were conducted during mid-April in the US. The inspire platform was manufactured utilizing the Evonik VESTAKEEP® i4 3DF PEEK high-performance polymer on a proprietary, patented 3D printer designed, programmed, and built by Curiteva.

Alex Vaccaro, MD, PhD, president of Philadelphia-based Rothman Orthopedic Institute, had this to share, "I believe structure drives biology and the lattice PEEK architecture enabled by Curiteva's 3D printing process represents an exciting advancement in spine, orthopedics, and neurosurgical procedures which involve any type of biologic implant".

Kevin Foley, MD, Chairman of Semmes-Murphey Neurologic and Spine Institute and professor of neurosurgery, orthopedic surgery and biomedical engineering at the University of Tennessee Health Science Center commented, "The Inspire porous PEEK technology checks all of the boxes for an ideal interbody implant: fully interconnected porosity, modulus of elasticity equivalent to cancellous bone, strong biome-

chanical properties, radiolucency, and a bioactive surface for osseointegration."

Randy Dryer, MD, Central Texas Spine Institute commented, "Interconnected porosity, pore size distribution, and nano-surface architecture are typically hallmarks of the most effective synthetic allografts. I believe this novel implant enhanced with HAFUSE nano-surface topography incorporates those features and presents an optimal environment for osteoprogenitor cells to move throughout the implant enhancing bone healing (fusion) and reducing risk of subsidence. I'm excited to offer this to my patients."

PEEK FILAMENT BIOMATERIAL FOR MEDICAL 3D PRINTING

Designed especially for use in additive manufacturing processes, Evonik's VESTAKEEP® i4 3DF comes in filament form and meets stringent requirements of ASTM F2026, which is the standard for PEEK polymers approved for use in surgical implant applications. It is the world's first 3D-printable filament to meet this requirement for medical use.

"Evonik's breakthrough 3D-printable implant material opens up exciting new possibilities in individually adaptable medical treatments, like spinal implants," says Marc Knebel, head of Evonik's Medical Devices & Systems market segment. "Innovative developments like our VESTAKEEP® i4 3DF PEEK filaments, are designed for the utmost biocompatibility, biostability and x-ray transparency – making them excellent materials for orthopedic and maxillofacial surgery."

Evonik has been the world's leading manufacturer in high-performance polymers and additives and its products have been used in 3D printing applications for more than 20 years. In addition to these implant grade filaments, the company produces a testing-grade PEEK filament that offers the same properties without the documentation needed for surgical implants. Its other 3D printing materials are used in highly demanding environments, and include resins suitable for photocuring and powders ideal for sintering -based manufacturing processes.

Source : Evonik

DOW SELECTS LINDE AS CLEAN HYDROGEN AND NITROGEN PARTNER FOR ITS PROPOSED NET-ZERO CARBON EMISSIONS ETHYLENE AND DERIVATIVES COMPLEX IN CANADA

MIDLAND, Mich., April 25, 2023 -- Dow (NYSE: DOW) announced today it has selected Linde (NYSE: LIN) as its industrial gas partner for the supply of clean hydrogen and nitrogen for its proposed net-zero carbon emissions1 integrated ethylene cracker and derivatives site in Fort Saskatchewan, Alberta, Canada. Final investment decisions for both the Dow and Linde projects are subject to approval by both companies' respective Board of Directors and various regulatory agencies. Final investment decisions are expected in fourth quarter this year for a potential startup of phase 1 in 2027.

Under the parties' framework agreement, Linde will complete the design and engineering for a Linde-owned and operated world-scale air separation and autothermal reformer complex. This complex would be integrated with Linde's existing operations in Fort Saskatchewan.

"Linde's partnership is critical in enabling Dow to advance its plans to decarbonize our Fort Saskatchewan site while growing our business," said Edward Stones, Dow's business vice president, Energy and Climate. "Our customers are looking to Dow to help lower the carbon footprint of their products, and this is an important step in that direction."

Dow's net-zero carbon emissions ethylene cracker and derivatives complex would decarbonize approximately 20 percent of its global ethylene capacity while growing its global polyethylene supply by about 15 percent and supporting approximately $1 billion of EBITDA (earnings before interest, taxes, depreciation and amortization) growth across the value chain by 2030.

The proposed production process at Fort Saskatchewan will convert cracker off-gas into hydrogen as a clean fuel to be used in the ethylene production process and carbon dioxide will be captured onsite to be transported and stored by adjacent third-party carbon storage infrastructure partners.

"The Dow net-zero Fort Saskatchewan project will be a milestone project in global industrial decarbonization," said Dan Yankowski, senior vice president Americas, Linde. "Linde's engineering, large project execution and operations expertise, combined with our long-standing relationship, uniquely positions us to support Dow as it takes an important step towards achieving its decarbonization goals."

Source : Dow

Continued from Pg 24

own and our customers' sustainability goals into reality, and we are very committed to the challenge. Our new BOPP product demonstrates the determined journey we have embarked on with SABIC. We welcome the advanced recycling route offered by SABIC as an opportunity to make a meaningful contribution to the circularity of plastics in BOPP films. In collaboration with strong global partners, this breakthrough project is demonstrating the feasibility of reusing plastic waste in safe food-grade packaging rather than losing its value to landfill or incineration."

SABIC's certified circular polymers form part of its TRUCIRCLE™ portfolio and services for circular solutions. Besides certified circular polymers, this also include design for recyclability, mechanically recycled products, certified renewable polymers from bio-based feedstock and closed loop initiatives to recycle plastic back into high quality applications and help prevent valuable used plastics from becoming waste.

A sample of this first mono-PP pasta packaging material will be on display at Interpack 2023, from May 04 to 10 in Düsseldorf, Germany at SABIC's booth B21 in Hall 9.

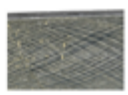
Source : Press Release

Thermoplastic Elastomer Excellent in Dissimilar Material Adhesion, "Tefabloc," Adopted for ZETT's Standard Bat for Rubber Baseball, "Black Cannon A-Power"

The Mitsubishi Chemical Group (the MCG Group) hereby announces that its thermoplastic elastomer Tefabloc™ has been adopted for Black Cannon A-Power, a standard bat for rubber baseball manufactured by ZETT Corporation (ZETT; Head office: Osaka City, Osaka). Black Cannon A-Power has been sold by ZETT in Japan since late February 2023.

Tefabloc™ is the core brand of the MCG Group's thermoplastic elastomer products. The elastomer has excellent rubber properties and is widely used in automotive applications (sealing/interior skin by injection /grip), industrial material applications (tube/grip), and for household goods (beverage container cap liners, etc.). The new grade* adopted for Black Cannon A-Power can be strongly adhered to carbon fiber reinforced polymers (CFRPs) without an adhesive, and is used in film form in the outermost layer of the striking part of the bat. Tefabloc™ further improves hitting speed by enhancing impact resistance and maximizing the strength and lightness of CFRPs.

Thermoplastic elastomers,



including Tefabloc™, have the same elasticity as vulcanized rubber at room temperature and can be processed in thermoplastic molding machines. In addition, the material can contribute to reducing environmental impact, as the scraps generated during molding can be reused.

The MCG Group will continue to expand applications in line with customer needs and develop high-value-added grades to contribute to the realization of a sustainable society.

*: Mitsubishi Chemical Corporation sells resin pellet products as "Tefabloc™", and DiaPlus Film Inc., a group company of Mitsubishi Chemical Corporation, sells film products as "Artply®."

Source : Mitsubishi

DuPont Wins Three 2023 Edison Awards™

WILMINGTON, Del., April 21, 2023 /PRNewswire/ -- DuPont (NYSE:DD) today announced that three of its innovative material technologies were recognized with the prestigious 2023 Edison Awards™. Selected from hundreds of nominees, DuPont received two Silver awards and one Bronze.

"We're honored that three of our innovative technologies are helping our customers address their most significant sustainability challenges," said Alexa Dembek, DuPont Chief Technology and Sustainability Officer. "This recognition exemplifies how our teams are driven by a relentless focus on excellence and highlights the spirit of sustainable innovation at DuPont, demonstrating the impact of our close customer collaboration to bring cutting-edge technologies to market."

The three DuPont innovations awarded this year include:

Silver – Kevlar® 1 mil N636 paper won a Silver award for High Performance Design in the Aerospace & Flight Technologies category. Kevlar® 1 mil N636 paper is a promising new innovation offering an ultra-thin, ultra-light honeycomb paper product that can be used in aircraft cabins to help achieve effective lightweighting. The material is 20-30 percent lighter than the next comparable product, and initial results demonstrated a potential 3-4 percent reduction in overall aircraft weight, while offering additional benefits that come with lighter designs, including a lower cost to operate. In addition to aircraft application, Kevlar® 1 mil N636 paper is currently being tested for use in emerging applications with low load bearing requirements, including electric planes and drones, and electric vertical takeoff and landing (eVTOL) aircraft designs.

Silver – FilmTec™ Fortilife™ CR200 water purification membrane won a Silver award for Sustainability in the Materials Science category. To help address the challenges of wastewater reuse and increase access to clean water, DuPont Water Solutions developed a new, high-productivity membrane, FilmTec™ Fortilife™ CR200, which maximizes operational efficiency and combats fouling – even in some of the world's most challenging waters. CR200's increased capability for water reuse can reduce demand for water drawn from local sources, such as ground and surface water. The exceptional design of CR200 elements compared to standard reverse osmosis elements provides wastewater reuse systems, with the ability to operate with a 50 percent reduction in cleanings, a 20 percent reduction in energy consumption, and less waste from cleaning chemicals and element replacement.

Bronze – BETASEAL™ APEX primerless-to-glass automotive aftermarket adhesive system won a Bronze award in the Materials Science category. BETASEAL™ APEX is an innovative primerless-to-glass adhesive that decreases impact on the environment while returning the vehicle to original specifications, simplifying installation of the replacement windshield, and providing consistent quality and Advances Driver Assistance Systems (ADAS) sensor compatibility. The elimination of primers containing organic solvents reduces glass installation steps, processing complexity and emissions of volatile organic compounds (VOC). DuPont's internal calculations show that over 25,000 liters of solvent are no longer emitted into the atmosphere in North America alone by using BETASEAL™ APEX.

Established in 1987, The Edison Awards™ recognize excellence in new product and service development, marketing, design, and innovation. Developed and maintained in the legacy of Thomas Edison, The Edison Awards™ "symbolize the persistence and excellence personified by Thomas Edison and his Menlo Park team, while also strengthening the human drive for innovation, creativity, and ingenuity.

Source : PRNewswire

ARCHROMA ANNOUNCES CEO TRANSITION

Reinach, Switzerland, 10 December 2019 - Archroma, a global leader in color and specialty chemicals towards sustainable solutions, today announced its transition plan for the function of Chief Executive Officer. The Board of Directors of Archroma has appointed Heike van de Kerkhof to succeed current CEO Alexander Wessels effective January 6, 2020. Mr. Wessels has held the CEO position at Archroma since the Company was established in October 2013 and will be appointed as Vice Chairman of the Company's Board of Directors. He will also take on a Senior Advisory role within SK Capital working across its portfolio of investments, which includes Archroma.

Alexander Wessels commented, "I feel privileged to have been given the opportunity to work with SK Capital and the Archroma team over the past six and a half years, which has really been an incredible journey. We are coming off another record year in terms of profitability and the business is uniquely positioned to capitalize on its significant momentum moving forward. For me personally, this is the ideal moment to take on my next challenge and in Heike we have found the ideal person to pass the baton to. We look forward to a seamless transition and I am excited to continue to support the Company as a member of the Board of Directors."

Barry Siadat, Co-Founder and Managing Director at SK Capital commented, "I would personally like to thank Xander for his leadership in the successful transformation of Archroma into a market leader in innovative and sustainable products and services and welcome him to a broader leadership role at SK Capital. We are excited to welcome Heike, a rare talent, to Archroma and SK Capital. We believe she is the ideal person to lead the next chapter of the Company's history."

Ms. van de Kerkhof joins Archroma from Castrol, the leading branded lubricant division of BP plc where she held

the role of Vice President, Western Hemisphere, and was responsible for a business generating USD 2+ billion in annual revenues and having approximately 2,000 employees. Prior to BP, she held a variety of business leadership, commercial and operations roles at DuPont and The Chemours Company in a career spanning almost thirty years. She also served as a Non-Executive Director at Neste Oil.

"I have a true passion for innovation and sustainability, and I am thrilled to join Archroma as its next CEO," Heike van de Kerkhof commented. "The Company has established itself as a leader in sustainable chemistry based on its strong technology-driven product portfolio with a solid foundation to further build upon. I believe Archroma is uniquely positioned to support its customers' manufacturing processes in a cost effective and sustainable manner. The investments made into research and technology during the first stage of SK Capital's ownership have positioned Archroma to reach new levels of growth and success."

Source : Chemical Market

VIPUL ORGANICS RECEIVES THE 1ST AWARD FROM CHEMIXCIL FOR DYES AND DYE INTERMEDIATES PANEL

Vipul Organics Limited, the BSE listed (VIPULORG / 530627) leading Specialty Chemicals company in the pigments and dyes segment, received CHEMIXCIL's First Award for the Dyes and Dye Intermediates Panel for the Small Scale Sector. At a glittering event, presided over by Union Minister of State for Commerce & Industry, Anupriya Patel, Mrs. Mita Shah, received the award on behalf of Vipul Organics Limited.

"It is a matter of immense pride that Vipul Organics is the recipient of the First Award of CHEMEXCIL for the Dyes and Dyes Intermediate Segment. An award from a body of our peers is even more important because it reflects the recognition of our efforts in bringing to the world a plethora of quality dyes, colours and pigments. Today, our customers in over 50 countries across the globe look at Vipul Organics as a preferred partner for their colouring needs", says Mihir V Shah, Executive Director, Vipul Organics Limited.

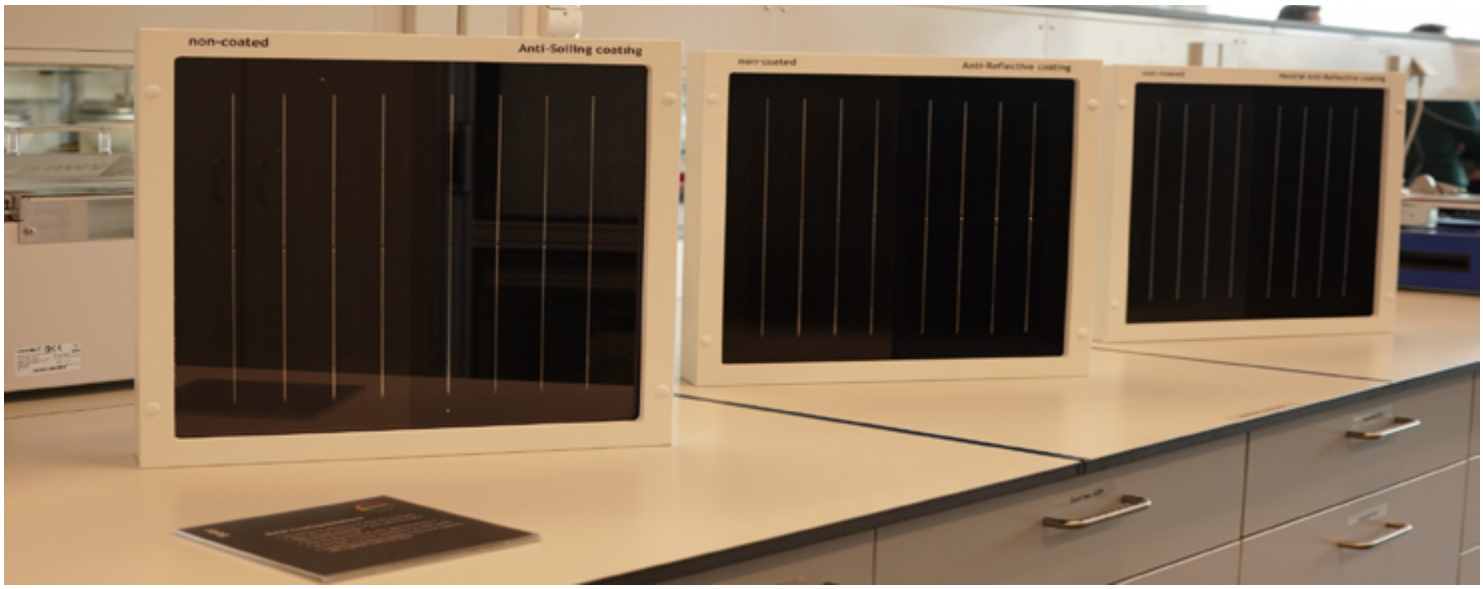
As Vipul Organics celebrates its golden jubilee, it remains committed to delivering excellence through innovative solutions. Vipul Organics provides total colouring solutions to Paint, Paper, Printing Ink, Plastics and Masterbatches, Textiles, Rubber & Latex, Agriculture, Leather, Dietary Supplements and Pharmaceuticals, Food Beverages and Confectionaries industries. Vipul Organics clientele includes the who's who of the industries that they service. In addition to a sizeable global clientele, today over 30% of the revenues come from an equally elite and satisfied domestic clientele.

Vipul Organics has won the First Award that CHEMEXCIL has instituted for the Dyes and Dye Intermediates Panel. With over 4000 members, CHEMEXCIL (Basic Chemicals, Cosmetics & Dyes Export Promotion Council) is the country's premier export promotion organization, acting as an interface between the industry and Government of India to create export friendly policies for the Chemicals segment.

Source : Chemical Market

SOLAR COATING SOLUTIONS HELP TO HARVEST MORE ENERGY FROM THE SUN

- **Solar coatings plant of Covestro in the Netherlands celebrates its 10th anniversary**
- **The Netherlands houses the largest independent solar glass coatings producer in Europe**
- **The journey started 10 years ago as a start-up business producing an innovative coating**
- **Today's wide offer of anti-reflective coatings solutions help to capture up to 4 percent of more energy from the sun in solar installations around the world every day**



The solar coatings plant of Covestro in the Netherlands today celebrates its 10th anniversary. What started with the development of an innovative coating prototype more than ten years ago, has turned today into a unique business story. The story of a Dutch materials company supplying glass makers around the world with coatings that increase the energy-efficiency of solar panels up to 4%.

The R&D teams of Solar Coating Solutions booked their first successes back in 2005 with the development of a new and innovative anti-reflective coating, which could be used in different applications. Around 2010, however, the solar industry worldwide started to emerge and turned into a business opportunity with a huge market demand and growth potential. This was the trigger for the decision to build a dedicated production plant for solar glass coatings in the Netherlands, more specifically on the Brightlands Chemelot Campus in Geleen.

With the solar photovoltaic industry growing globally, the Solar Coatings Business also spread its wings and installed teams in China and in the US. Thanks to smart decision taking, to the expertise of its business development teams in the regions and to the excellent performance and quality of its solar glass coatings, the Netherlands' plant today remains the largest independent producer outside China. Additionally, during the past ten years the solar glass coatings product portfolio developed from a 'one fits all solution' to a highly diversified offering.

Robert von Beulwitz, Managing Director of the Solar Coating Solution, explains: "Today we offer amongst others combined anti-reflective and anti-soiling coatings for modules used in desert environments, high power coatings for large utility scale solar parks and special aesthetic coatings for pitch black appearance of solar panels mounted on residential rooftops – mainly in the Netherlands. Our latest innovation being the development and commercialization of a retrofit coating application for older solar parcs. With the expansion of the industry and of our portfolio, we also saw our employee base rising and I would like to thank each and every one of these colleagues for the relentless efforts they deliver every day!"

"All these different solar coating products were developed in the Netherlands by listening to end market requirements around the world. And all of them are produced by employees in our production facility on the Brightlands Campus in Geleen. I am very proud about this story with which – from the Netherlands – we empower solar energy and harvest more energy from the sun", adds Aukje Doornbos, Managing Director of Covestro in the Netherlands.

Source : Covestro

LOTTE Chemical HQ, Participates in Asia's Largest International Plastic and Rubber Industry Expo, 'Chinaplas 2023'

- LOTTE Chemical-LOTTE Fine Chemical participates in 'Chinaplas 2023' under the theme Wide Spectrum in Chemistry… Asia's largest global exhibition participated by approximately 3,900 companies from 150 countries around the world

- LOTTE Chemical, "We will introduce distinguished high-value strategic products and eco-friendly materials through this exhibition… We will provide a broader range of various solutions to customers"

LOTTE Chemical and LOTTE Fine Chemical will participate in Asia's largest international plastic and rubber industry expo, 'Chinaplas 2023' that will be held in Shenzhen, China from April 17 (Mon) to 20 (Thu) local time.

This expo will be joined not only by major global chemical companies, but also about 3,900 companies from over 150 countries around the world.

LOTTE Chemical and LOTTE Fine Chemical will introduce its eco-friendly/specialty materials and future new business technologies and products, etc. under the theme Wide Spectrum in Chemistry.

First, the large medial wall installed at the entrance of the exhibition booth with a size of approximately 330 square meters (m^2) will offer the chance to watch LOTTE Chemical's corporate vision and expanded business, product, technology spectrums with a dynamic video.

In the Green Innovative Solution, high-value strategic materials such as HDPE separators, cathode films, battery pouch films, and other lithium-ion battery materials used in EVs will be on display. It will also introduce the Green Business of LOTTE Chemical such as CCU technology processes using gaseous separators for the first time in the Korean chemical industry, hydrogen energy business road map, etc.

At the Specialty Solution zone, visitors can take a look at distinguished highly function antibacterial material evermoin, antivirus material called everban, and eco-friendly bio PET that uses bio-MEG extracted from sugar canes.

In addition, uniforms, shoes, bags, etc. made with physical/chemical recycled processes through LOTTE Chemical's resource circulation project called 'Project LOOP' will be on display. It will also put on display high-pressure containers for storing hydrogen that can be applied in various hydrogen mobility sectors, as well as lightweight materials for mobility.

Source : Lotte Chemical

Taking Climate Action With Green Carbon Personal Care

Our contribution to the Sustainable Development Goals (SDGs)

This story is an example of Clariant's contribution to SDGs 12 and 13. We're enabling more sustainable choices in the Personal Care arena by expanding formulators' access to responsibly and transparently sourced plant-based ingredients, while increasing our own use of renewable and natural, non-food competing feedstock to reduce CO2 footprint in the value chain and consumer products.

As more and more Personal Care brands step up on climate action, we are helping to lead the charge, growing our range of 100% bio-based[1] ingredients to support our customers' green carbon formulations on the market.

Evolving in a more sustainable and natural direction doesn't have to be complex. This past March 8th marked the US Department of Agriculture's (USDA) first National Biobased Products Day initiative, helping to raise awareness of the possibilities of the bioeconomy. Excited to be part of the inaugural celebrations, we embraced this opportunity to shine a light on our latest bio-based launches for Personal Care and Home Care. This platform provided a chance to connect with a wide range of customers in North America, from global multinationals to emerging indie brands. It was also an opportunity to highlight key solutions that address ever-changing regulations and consumer desire for sustainable products. With NYSCC Suppliers' Day coming up this May, Clariant is excited to further share these offerings with the Personal Care market.

"Nature has long since gifted the beauty industry with effective solutions, and we're committed to building on this further to support all types of customers looking to create sustainable offerings. The proactive interest we're seeing in our 100% bio-based surfactants and PEGs, our transparently sourced natural active ingredients, and fully renewable and vegan preservative boosters is really inspiring, reinforcing that we're on the right track, together," comments Neslihan Utkan, Head of Americas, Personal & Home Care segment.

100% green carbon chemistry to foster the transition

Designed for natural formulations with a high Renewable Carbon Index (RCI), Clariant's VITA line of 100% bio-based surfactants and PEG products helps to maximize the green carbon content of consumer formulations and remove fossil carbon from the value chain without losing out on performance.

These products are setting a new standard in "green" surfactants, in Personal Care as well as markets like Home Care and Coatings, by delivering the performance of fossil-based analogs and standing out for their 100% traceable and measurable carbon. The innovative formulation ingredients are based on green carbon made from plants via bioethanol and other oleochemical sources, with fully segregated material flows of sugar cane or corn to the final ingredient to ensure the natural origin of the ethoxylates.

The VITA product line supports one of the UN's most important Sustainable Development Goals - #13 Climate Action - saving up to 85% of CO2 emissions from the value chain compared to fossil carbon-based counterparts. With these ethoxylates making up a large portion of cosmetic formulations, making the switch is a positive action toward lowering environmental impact and mitigating climate change.

Responsibly sourced plant-based solutions

When it comes to the active ingredients in a formulation, offering the transparency of 100% bio-based, responsibly sourced solutions is another route opening up choices for formulators.

Clariant Actives and Natural Origins embraces unique technologies to offer besides high-tech actives recognized by top level awards, a full range of naturals for the cosmetic market with a positive sustainable and socioeconomic impact.

An extensive selection of natural clays, plant extracts, oils and butters backed by responsible sourcing are available to boost the extent of bio-based ingredients in skin care and hair care.

"It's our mission to make a change throughout the value chain from plant to bottle, ultimately impacting the industry sustainably," comments Catherine Breffa, Head of Marketing Personal & Home Care. "The fully renewable-based active ingredients that were showcased at USDA's inaugural National Biobased Product Day exemplified the different ways we have approached this change."

Samy El-Khoury, Head of Natural Ingredients, elaborates further "Our Beracare™ CBA is made from a blend of two powerful oils responsibly sourced in the Amazonian ecosystem. This blend provides soothing benefits and improves the wellbeing of sensitive skin. In addition, Clariant's newest active, Rootness® Mood+, reproduces the skin's benefits from light to revitalize skin and enhance mood. Through a patented process that is 100% eco-friendly and traceable, this ingredient is made from a root extract obtained under aeroponic conditions. This enables the advantages of a soil-free environment and minimal water usage."

Reducing preservative load, naturally

Today, demand for low fossil carbon solutions extends to the challenging and highly regulated field of preserving the safety and quality of Personal Care products. To help formulators, we developed multifunctional 100% renewable-based preservative boosters to enable "cleaner" formulations by reducing the need for traditional preservatives. The innovative Velsan® line does more than lower the amount of preservative, it also acts as an emollient and/or emulsifier depending on the formulation. This creates exciting possibilities to simplify formulations through multifunctional properties. Good news all round for more sustainable formulations.

Source : Press Release

Clariant IGL Specialty Chemicals (CISC) showcases renewable-based ethylene oxide derivatives at ChemExpo India

- "Closer to Customers" capability with its own manufacturing site at Kashipur, in Uttarakhand-India
- CISC's multipurpose production facility including an alkoxylation plant is already providing an impetus to the markets in India, Sri Lanka, Bangladesh and Nepal, and customers in Europe, the US and South Asian markets
- CISC caters to wider variety of market segments ranging from Crop Solutions, Personal Care & Homecare, Paints and Coatings, Industrial Lubricants, Textile, Pharma and Construction

Discover the Vita range of 100% bio-based, carbon-reducing, fully segregated surfactants and PEGs with a Renewable Carbon Index (RCI) of >95% at Booth B08, ChemExpo India 2023

MUMBAI, April 19, 2023 - Clariant IGL Specialty Chemicals Private Limited brings its portfolio of renewable-based ethylene oxide derivatives to ChemExpo India 2023 for the first time. Its VITA range of 100% bio-based surfactants and ethoxylated derivatives supporting carbon footprint reduction in multiple market segments, is a key highlight for visitors to Booth B08 at the Bombay Exhibition Centre, Mumbai, from April 18-19, 2023.

CISC was born in July 2021 as a joint venture and combines IGL's renewable bio-ethylene oxide derivatives business, which includes a multipurpose production facility including an alkoxylation plant located in Kashipur, Uttarakhand (India) with Clariant's local Care Chemicals business in India, Sri Lanka, Bangladesh and Nepal.

"CISC is thrilled to participate in ChemExpo India 2023. This is an excellent opportunity for us to showcase the latest products, technologies, and innovations and meet potential customers,

suppliers, and industry experts from around the world. The Indian Specialty Chemical space has significantly grown in the last few years and is also expected to grow multifold in the near future, and we at CISC are excited and geared up to meet the domestic market requirements with our strong local footprint. With our Vita product range we are offering innovative and sustainable solutions," comments Nitin Sharma, CEO & General Manager, Clariant IGL Specialty Chemicals.

India is expected to emerge as one of the largest markets for specialty chemicals and with its bio-based ethylene oxide derivatives and surfactants, CISC is in a position to cater to a wide variety of market segments ranging from Crop Solutions, Personal Care & Homecare, Paints and Coatings, Industrial Lubricants, Textile, Pharma and Construction.

One of the prominent advantages is its "Closer to Customers" manufacturing base at Kashipur in Uttarakhand region. This multipurpose production facility offers an alkoxylation plant for renewable bio ethylene oxide. CISC is a leading supplier of such "green" ethylene oxide derivatives in India. It offers a fully segregated facility for the 100% bio-based, carbon-reducing Vita Range. Plus, it also has an on-site R&D facility to support customers with innovative, sustainable, and tailor-made solutions.

"Clariant IGL Specialty Chemicals is one of the established players for ethylene oxide derivatives in India and provides products on a renewable basis. By working closely together and leveraging our unique capabilities, we see opportunities for profitable growth, with our customers, based on strong local organic demand as well as the global megatrend for renewable products. Globally, we can benefit from leveraging the "green" ethylene oxide derivatives across other markets, where demand for such renewable ingredients is also on the up," adds US Bhartia, Chairman, Clariant IGL Specialty Chemicals.

Products in the newly launched Vita range of surfactants and polyethylene glycols (PEGs) are 100% bio-based, carbon-reducing, fully segregated, and have an RCI (Renewable Carbon Index) of >95%. This will support customers in reducing their carbon footprint & Scope 3 emissions. The CISC facility will cater to the Indian market but will also serve as a major export hub for the Vita range.

Christian Vang, Business President Care Chemicals & Americas, Clariant International, sums up the strategic support offered to local customers: "India is a crucial component of the growth strategy of our Care Chemicals business, with a focus on renewable solutions. We experience a growing demand among our customers for care chemicals applications based on renewables. Clariant IGL Specialty Chemicals India will press ahead to fulfill this with innovative, and high-quality solutions based on its unique capabilities. Our strategy continues to differentiate through innovation, sustainability, growth, and performance. This has had a significant impact on our portfolio, which has become more focused on high-value specialty chemicals. CISC is a fine example of Clariant's commitment to India both as a market and a supply source. It also continues to demonstrate Clariant's "Make in India" commitment, utilizing the rich talent and opportunities that the country has to offer."

Source : Press Release

6k Additive And Cumberland Additive Announce Partnership And Sign Long Term Supply Agreement For Nickel 718

PITTSBURGH, May 2, 2023 / PRNewswire/ -- 6K Additive, a leader in the sustainable production of materials for additive manufacturing and Cumberland Additive (CAI), a trusted AM leader that manufactures serial production parts for strategic applications, today announced a partnership that includes a long term agreement (LTA) where 6K Additive will supply CAI with Ni718 powder. The LTA also calls for expansion to supply an additional volume of nickel powder as well as additional alloys to support CAI's rapidly expanding production requirements.

"Our customer base continues to expand, and we need to ensure not only the quality of the powder but also a reliable supply chain that we can be 100% confident we can meet our manufacturing demand," said Tim Blaisdell, Chief Strategy Officer for CAI. "We've worked with the team at 6K Additive over the past 12 months and they have consistently proven to be a reliable partner. Key to our military and defense customer requirements, 6K Additive is a domestic supplier offering sustainably sourced feedstock making this the ideal partnership."

6K Additive President Frank Roberts added, "We are excited about the partnership with Tim and the team at CAI. As our capacity and capabilities increase, we need to align ourselves with growing organizations like CAI to ensure their strategic AM customers' goals and needs are met. Securing long-term agreements allows our operation to forecast, plan, and ultimately produce powder at volumes that meet market demands. The LTA with CAI helps our operational efficiencies and builds long-term partnerships that provide mutual success."

Cumberland Additive is a trusted leader in the AM industry, offering series production of parts and engineering design services in both metals and polymer materials using multiple AM technologies including powder bed fusion technology. With locations in Pflugerville and Pittsburgh, Cumberland provides AM service for customers in major markets such as aerospace, defense, space, energy, and industrial.

6K Additive is the world's first producer of AM metal powder made from sustainable sources and offers a full suite of premium powder including nickel, titanium, copper, stainless steel, aluminum alloys, and refractory metals such as tungsten and rhenium. 6K's proprietary UniMelt® system is the world's only microwave production-scale plasma system, with a highly uniform and precise plasma zone with zero contamination and high throughput production capabilities. The UniMelt process produces powders that are truly spherical, void of porosity, and satellites with better flowability than other processes. Companies interested in working with 6K Additive regarding their specific powder requirements are urged to visit 6K Additive's website 6KAdditive.com

Source : PRNewswire

DKSH NORDIC WINS SEVENTH CONSECUTIVE SYNTHOMER GOLD AWARD AND EMEA DISTRIBUTOR OF THE YEAR AWARD FOR 2022

DKSH Nordic was awarded for its overall achievements in selling, marketing, and distributing Synthomer's range of products in 2022.

Zurich, Switzerland, April 20, 2023 – DKSH's Business Unit Performance Materials, a leading distributor of specialty chemicals and ingredients, has won the Synthomer Gold award for the seventh consecutive time, with the EMEA Distributor of the Year Award. DKSH Nordic exceeded Synthomer's rating criteria based on sales performance, experience, product knowledge, market coverage, logistics, and financials.

DKSH Nordic is the distribution partner for Synthomer across eight markets in the Nordic and Baltic region. DKSH provides marketing and sales, distribution, logistics, and customer management for Synthomer's range of functional solutions and water-based specialty polymers used in coating, construction, fibre bonding, and adhesive applications.

Stefan Kloetzer, Distribution Manager Europe, Synthomer, commented: "As one of our best performers for many years, we are very pleased to present the EMEA Distributor of the Year Award and the Synthomer Gold Award to our trusted partner, DKSH. DKSH performed extremely well during a challenging year to increase sales and business in 2022."

Casper Larsen, General Manager, DKSH Nordic, added: "We are honored to receive the award for the seventh consecutive time, along with the EMEA Distributor of the Year Award, from Synthomer. I thank Synthomer for these recognitions and am very grateful to the team at DKSH Nordic for their dedication and consistency in marketing and distributing Synthomer's products across the Nordic and Baltic region."

Source : Chemical Market

EVENTS AND CONFERENCES

CPHI CHINA - VIRTUAL CPHI

Date: JUNE 19-21, 2023
City: Shanghai New International Expo Center
Country: China
Website: https://www.cphi.com/china/en/about.html

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

EXPO PAINT & COATINGS

Date: July 13-15, 2023
City: Pragati Maidan, New Delhi
Country: India
Website: https://expopaintcoating.in/

Description: Expo Paint & Coatings - 2023 is a comprehensive Paint & Coatings Exhibition providing platform to the needs of every facade 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.

Expo Paint & Coatings - 2023 will bring together leading local and international manufacturers, formulators, buyers, industry professionals, consultants, enthusiasts and prospective entrants from the Paint & Coatings, surface finishing & allied industry presenting unrivaled opportunities to network, exchange best practices, do business, unveil new products and source cutting-edge products, technologies and solutions.

MIDDLE EAST COATINGS SHOW

Date: June 19-21, 2023
City: Egypt International Exhibition Center (Eiec), Cairo
Country: Egypt
Website: https://www.middleeastcoatingsshow.com/

Description: With 13 successful editions in Cairo, Middle East Coatings Show Egypt has established itself as the only dedicated event for connecting the coatings industry in Egypt. 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 region. It's true, the U.S. alone accounts for 40% of the world's pharmaceutical sales and is home to 6 of the top 11 companies. But much more than that, this is a place of community-building connections. A forum for thought leadership. The hub of innovation. And it all comes to life at CPHI North America.

EVENTS AND CONFERENCES

CHEMSPEC EUROPE

Date: May 24 -25, 2023
City: Messe Basel, Switzerland
Country: Europe
Website: https://www.chemspeceurope.com/

Description: With a highly specialised profile, Chemspec Europe is a key event for the fine and speciality chemicals industry. The exhibition is the place to be for purchasers and agents to meet with manufacturers, suppliers and distributors of fine and speciality chemicals to source specific solutions and bespoke products. Chemspec Europe is a powerful gateway to global business and industry knowledge, making the event appealing to its international audience. The exhibition features the full spectrum of fine and speciality chemicals for various applications and industries. Additionally, a wide range of free conferences provides excellent opportunities to network with industry colleagues and exchange competencies on the latest market trends, technical innovations, business opportunities, and regulatory issues in an evolving market.

CPHI KOREA

Date: Aug 30 - Sept. 1, 2023
City: COEX, Seoul, Korea
Country: Korea
Website: https://www.cphi.com/korea/en/home.html

Description: We are thrilled to announce that CPHI Korea will return in 2023, when it will take place from 30 August - 1 September at COEX in Seoul. With increasing need for the industry to regroup, we will concentrate our efforts on ensuring a thriving and successful comeback show that gives you the second-to-none business opportunities you have come to expect from our event.

ASIA PACIFIC COATINGS SHOW

Date: Sept 6 - 8, 2023
City: Bangkok International Trade & Exhibition Centre, Thailand
Country: Thailand
Website: https://www.asiapacificcoatingsshow.com/

Description: The Asia Pacific Coatings Show is the leading event in South East Asia and the Pacific Rim for the coatings industry. For three days, the exhibition offers the opportunity to meet new and existing customers from the region; gather insight on the latest technologies available in the market; and have meaningful, face-to-face business interactions.

The event provides the perfect environment for the entire spectrum of the coatings industry to do business, from raw material suppliers to equipment manufacturers, to distributors and technical specialists like formulators. That's not all – the conference that is held alongside the event offers the opportunity to learn about the latest industry products, innovations and trends; exchange ideas with industry leaders; and build a strong network in the region.

SABIC's new sustainable LNP™ compound will add to 400 million diverted water bottles and deliver thin-wall, non-Br/Cl flame retardance to 0.4 mm for electrical industry

BERGEN OP ZOOM, THE NETHERLANDS, May 2, 2023 - SABIC, a global leader in the chemical industry, today launched LNP™ ELCRIN™ WF0051iQ compound featuring thin-wall, non-brominated/non-chlorinated flame retardance (FR). It is the newest addition to the company's growing family of sustainable iQ resins and it is well suited for electrical applications. The new grade will increase SABIC's already significant diversion of post-consumer polyethylene terephthalate (PET) water bottles, which are chemically upcycled into polybutylene terephthalate (PBT) resin. At the end of 2022, the company had already diverted 400 million 0.5-liter bottles through its iQ upcycling technology.

"LNP ELCRIN WF0051iQ compound can offer the electrical industry a novel solution that can significantly improve sustainability while delivering tailored performance properties that are essential for ever-smaller and more-powerful components," said Joshua Chiaw, Director, Business Management, LNP & NORYL, Specialties, SABIC. "This portfolio expansion has the potential to help accelerate the diversion of discarded, single-use water bottles to avoid landfilling and ocean contamination. Chemical upcycling is an important part of our overall net-zero strategy."

Smaller Carbon Footprint

Compared to standard, fossil-based virgin PBT resin, LNP ELCRIN WF0051iQ compound's carbon footprint is 11 percent less.[1] This reduction is due, primarily, to the incorporation of 39 0.5-liter PET water bottles in each kilogram of LNP ELCRIN WF0051iQ compound, representing a minimum of 27 percent of the content. SCS Global Services (SCS) has audited and provided independent verification that the manufacturing processes for LNP ELCRIN iQ compounded resins adhere to the SCS Recycled Content Standard, and that the supply chain meets criteria for responsible sourcing including social, environmental, health and safety requirements (Certified Green Products Guide | SCS Global Services). This process conserves natural resources.

Beyond the reuse of waste plastic, LNP ELCRIN WF0051iQ compound can offer additional sustainability benefits. For example, the ability to design thin walls with this compound helps reduce the consumption of fossil-based raw materials, and the FR formulation helps avoid the use of bromine and chlorine, two semi-volatile organic compounds that are linked to health and environmental risks.

The desirable combination of thin-wall FR, long-term property retention and glass fiber reinforcement for stiffness and high flow to enable complex geometries makes LNP ELCRIN WF0051iQ compound well suited for miniaturized electrical components such as connectors, switches and sockets. The product is available in custom colors.

High Performance for Electrical Applications

The new resin is the first LNP ELCRIN iQ compound to meet the UL94 V0 standard for fire resistance at 0.4 mm and has received a Yellow Card listing under the UL Plastics Recognition Program for the signature sustainability green color. The material's relative thermal index (RTI) is 130°C at 0.4 mm, and the comparative tracking index (CTI) is 2, contributing to safety and reduced material requirements that can lower the cost of tooling and accelerate time to market. Complementing these exceptional performance properties are many processability benefits, including high flow for fast throughput, and low abrasion properties, compared to alternatives.

"With our cross-functional expertise, we fast-tracked the development of this novel thin-wall, non-Br/Cl Flame retardant LNP ELCRIN WF0051iQ compound in order to extend the sustainability benefits of this unique resin family to more customers as soon as possible," said Luc Govaerts, Technology Director, Specialties, SABIC. "This effort underscores our strong commitment to meeting the needs of the electrical industry for specialized materials to enable new designs and advanced technologies."

In addition to electrical components, LNP ELCRIN WF0051iQ compound is well suited for use in critical medical devices and appliance applications. This material is globally available.

Source : Sabic

DCM Media Private Limited
513 Lotus Business Park, Off SV Road, Chincholi,
Ram Baug Lane, Malad West, Mumbai 400064
www.chemicalWmarket.net
Email: info@chemicalmarket.net
Ph.#: 91-877-9830-330 / 91-93724-34490

CHEMICAL MARKET
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Magazine Advertisement Tariffs (India)

Ad	Size	Booking 12 Issues (1 yr.)	Booking 24 Issues (2 yrs.)
QUARTER PAGE	9.75 cm (W) x 12.5cm (H)	₹4800 per issue	₹4000 per issue
HALF PAGE	19.5 cm (W) x 12.5cm (H)	₹7680 per issue	₹6400 per issue
FULL PAGE (inner)	19.5 cm (W) x 25cm (H)	₹14400 per issue	₹12000 per issue
FRONT 2nd PAGE	19.5 cm (W) x 25cm (H) (BLEED 1 CM ALL SIDES)	₹19200 per issue	₹16000 per issue
FRONT 1st PAGE	19.5 cm (W) x 25cm (H) (BLEED 1 CM ALL SIDES)	₹24000 per issue	₹20000 per issue
FRONT COVER PAGE	21 cm (W) x 21 cm (H) (BLEED 1 CM ALL SIDES)	₹28800 per issue	₹24000 per issue

Magazine Advertisement Tariffs (International)

Ad	Size	Booking 12 Issues (1 yr.)	Booking 24 Issues (2 yrs.)
QUARTER PAGE	9.75 cm (W) x 12.5cm (H)	$60 per issue	$50 per issue
HALF PAGE	19.5 cm (W) x 12.5cm (H)	$96 per issue	$80 per issue
FULL PAGE (inner)	19.5 cm (W) x 25cm (H)	$180 per issue	$150 per issue
FRONT 2nd PAGE	19.5 cm (W) x 25cm (H) (BLEED 1 CM ALL SIDES)	$240 per issue	$200 per issue
FRONT 1st PAGE	19.5 cm (W) x 25cm (H) (BLEED 1 CM ALL SIDES)	$300 per issue	$250 per issue
FRONT COVER PAGE	21 cm (W) x 21 cm (H) (BLEED 1 CM ALL SIDES)	$360 per issue	$300 per issue

- Magazine is in full colour and only available on Web / Email / WhatsApp / Online more only.
- All Payments to be done online via NEFT/PAYTM or DCM Media generated RAZORPAY link only.
- To avail GST credit, please send us your GST Number and State of GST Registration.
- Tax invoice will be delivered via email only after 100% payment is realized. Payment receipt will be issued on Partial Payments made. All Payments via NEFT should go to the following :

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Account Number:	**6986 0560 0209**
IFSC Code:	**ICIC0006986**
Name of Bank:	**ICICI Bank**
Bank Address:	**Malad West, Mumbai**
PAN Number:	**AAGCD1596F**

Thank you for your business!

Last Modified: April 2022

Booking Price as on 12/05/2023		
Current Exchange rate-$1= 82.14 INR		
Chemicals name	**Current Prices**	**Type**
Acetic Acid	430	CFR India
Acrylonitrile	1410	CFR India
Benzene	985	FOB India
Phenol	1080	CFR India
Acetone	865	CFR India
Butyl acrylate monomer	1460	CFR India
C9 solvent	Not Available	CFR India
LAB	1705	CFR India
IPA	1040	CFR India
Methanol	300	CFR India
VAM	1060	CFR South Asia
Toluene	1005	CFR India
Styrene monomer	1135	CFR India
NBA	950-1000	CFR India
2-eha	1270-1300	CFR India
Iso butanol	960-990	CFR India
MEG	495	CFR India
Mix xylene	1065	CFR India
Gycerine	700	CIF India
DMF	900	CFR India
Acrylic acid	1180	CIF India
Formic Acid	Not Available	CFR India
Adipic Acid	1300	CIF India
Ethylene	955	CIF India
PTA	855	CFR India
Propylene	925	CIF India
THF	2110	CIF India
Note- All above booking prices have been directly collected from intenders and importers and verified.		

Mumbai Market Price as on 12/05/2023				
Name of Chemical	**Packing type**	**Units**	**Current Price**	**Exclusive of**
Acetic Acid	Imported Repack	Rs/Kg	46	GST
	Domestic Intact	Rs/Kg	55	GST
	Domestic Repack	Rs/Kg	47	GST
Acetone	Imported Intact	Rs/Kg	109	GST
	Imported Repack	Rs/Kg	99	GST
	Domestic Intact	Rs/Kg	111	GST
	Domestic Repack	Rs/Kg	99	GST

Acetonitrile	Imported Intact	Rs/Kg	147	GST
	Domestic Intact	Rs/Kg	NA	GST
	Domestic Repack	Rs/Kg	NA	GST
Acrylonitrile	Imported Intact	Rs/Kg	145	GST
	Imported Repack	Rs/kg	135	GST
Aniline	Imported Intact	Rs/Kg	176	GST
	Imported Repack	Rs/Kg	NA	GST
	Domestic Intact	Rs/Kg	179	GST
	Domestic Repack	Rs/Kg	NA	GST
Benzene	Domestic Repack	Rs/Litre	91	GST
Cyclohexane	Imported Intact	Rs/Kg	150	GST
	Imported Repack	Rs/Kg	NA	GST
	Domestic Intact	Rs/Kg	130	GST
	Domestic Repack	Rs/Kg	122	GST
Cyclohexanone	Imported Intact	Rs/Kg	145	GST
	Imported Repack	Rs/Kg	128	GST
	Domestic Intact	Rs/Kg	145	GST
	Domestic Repack	Rs/Kg	140	GST
C9 Solvent (99.99% purity)	Imported Repack	Rs/Kg	107	GST
C9 Solvent (Arham Petrochem)	Imported Repack	Rs/Kg	106.75	GST
Dibutyl Phthalate	Domestic Intact	Rs/Kg	129	GST
Dioctyl Phthalate	Imported Intact	Rs/Kg	NA	GST
	Domestic Intact	Rs/Kg	136	GST
Ethyl Acetate	Domestic Intact	Rs/Kg	91	GST
	Domestic Repack	Rs/Kg	87	GST
Formaldehyde(37%)	Domestic Intact	Rs/Kg	19	GST
	Domestic Repack	Rs/Kg	18.5	GST
Methanol	Imported Repack	Rs/Litre	35	GST
Methyl Ethyl Ketone	Imported Intact	Rs/Kg	121	GST
	Imported Repack	Rs/Kg	109	GST
Methyl Isobutyl Ketone	Imported Intact	Rs/Kg	245	GST
	Imported Repack	Rs/Kg	220	GST
	Domestic Repack	Rs/Kg	NA	GST
Methyl Methacrylate	Imported Intact	Rs/Kg	157	GST
	Imported Repack	Rs/Kg	NA	GST
Mixed Xylene	Imported Repack	Rs/Kg	97	GST
	Domestic Repack	Rs/Kg	97	GST
Monoethylene Glycol	Imported Intact	Rs/Kg	59	GST
	Imported Repack	Rs/Kg	55	GST
	Domestic Intact	Rs/Kg	59	GST
	Domestic Repack	Rs/Kg	55	GST

Iso propyl Alcohol	Imported Intact	Rs/Kg	115	GST
	Imported Repack	Rs/Kg	100	GST
	Domestic Intact	Rs/Kg	112	GST
	Domestic Repack	Rs/Kg	100	GST
nButanol	Imported Intact	Rs/Kg	104	GST
	Imported Repack	Rs/Kg	97	GST
	Domestic Intact	Rs/Kg	106	GST
	Domestic Repack	Rs/Kg	98	GST
Ortho Xylene	Imported Repack	Rs/Kg	113	GST
Phenol	Imported Intact	Rs/Kg	123	GST
	Imported Repack	Rs/Kg	119	GST
	Domestic Intact	Rs/Kg	123	GST
	Domestic Repack	Rs/Kg	119	GST
Phthalic Anhydride	Imported Intact	Rs/Kg	120	GST
	Domestic Intact	Rs/Kg	120	GST
Purified Terethaic Acid	Domestic Intact	Rs/Kg	NA	GST
Styrene Monomer	Imported Repack	Rs/Kg	104	GST
Toluene	Imported Repack	Rs/Kg	93.5	GST
	Domestic Repack	Rs/Kg	94	GST
Vinyl Acetate Monomer	Imported Repack	Rs/Kg	87	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 12/05/2023

Products	Regions	Current prices
Feedstock Prices $/unit		
Crude Oil ($/barrel)	WTI CRUDE	70.57
	BRENT CRUDE	74.6
	MARS US	71.47
	OPEC BASKET	76.31
Natural Gas	New York	2.16
Gasoline	RBOB	2.44
Heating Oil	US	2.33
Ethanol	US	2.41
Naphtha ($/mt)	FOB Singapore	575
	European	580
	CFR Far East Asia	608
Propane	New York	0.67
Aromatics prices $/MT		
Benzene	FOB Korea	860
	CFR Japan	885

Styrene	CFR Japan	1035
	CFR South East Asia	1030
	CFR China	1025
	FOB Korea	1035
Toluene	CFR China	865
	CFR South East Asia	875
	FOB Korea	835
	CFR Japan	865
Iso-mix xylene	CFR South East Asia	895
	CFR Taiwan	940
	FOB Korea	920
MEG	CFR China	510
	CFR South East Asia	515
Methanol	CFR China	277
	CFR Korea	337
	CFR South East Asia	345
	CFR Taiwan	335
Solvent-MX	CFR South East Asia	960
	FOB Korea	910
	CFR China	910
Ortho xylene	CFR South East Asia	1100
	FOB Korea	1085
	CFR China	1085
Para xylene	CFR South East Asia	1020
	FOB Korea	990
	CFR Taiwan	1020
Propylene	FOB Japan	885
	FOB Korea	865
	CFR China	885
	CFR South East Asia	910
Propylene Glycol	FOB Korea	895
	CFR China	920
	CFR South East Asia	925
	CFR Taiwan	920
Ethylene	CFR North East Asia	885
	CFR South East Asia	925
	FOB Japan	880
	FOB Korea	865
Ethylene Di Chloride (EDC)	CFR Far East Asia	290
	CFR South East Asia	280

Butadiene	CFR China	955
	CFR South East Asia	885
	FOB Korea	915
FOB Rotterdam USD/MT	Benzene	980
	Methanol	272
	Ortho xylene	1475
	Para xylene	1180
	Xylene solvent	935
	Styrene	1045
	Toluene	1010
USA Aromatics prices FOB US Gulf	Benzene C/G	349
	Toluene C/G	356
	Styrene C/LB	49.4
	Para xylene $/MT	1090
	Mix xylene C/G	359
	Methanol C/G	89
Intermediates prices $/MT		
Acrylonitrile	CFR Far East Asia	1420
	CFR South East Asia	1420
	CFR South Asia	1260
EDC	CFR Far East Asia	310
	CFR South East Asia	330
VCM	CFR Far East Asia	640
	CFR South East Asia	690
MTBE	FOB Singapore	898
	FOB US Gulf	NA
Phenol	CFR China	895
	CFR South East Asia	1005
	FOB US Gulf	1208
	FOB Rotterdam	1289
Acetone	CFR China	765
	CFR South East Asia	930
	CFR Far East Asia	685
	FOB US Gulf	1150
	FOB Rotterdam	986
Caprolactum	CFR Far East Asia	1650
	CFR South East Asia	1650
Caustic Soda	FOB North East Asia	365
	CFR South East Asia	425
MEK	FOB Rotterdam	1424
	FD North West Europe(Euro/mt)	1400

Ethyl acetate	FOB US Gulf	1970
	FOB Rotterdam	1068
	FD North West Europe(Euro/mt)	1075
Butyl acetate	FOB US Gulf	2340
	FOB Rotterdam	1512
	FD North West Europe(Euro/mt)	1480
IPA	FOB US Gulf	1090
	FOB Rotterdam	1150
	FD North West Europe(Euro/mt)	1150
NBA	CFR China	1190
	CFR South East Asia	1210
	CFR Far East Asia	1185
Octanol	CFR China	1230
	CFR South East Asia	1350
	CFR Far East Asia	1255
DOP	CFR China	1330
	CFR South East Asia	1395
	CFR Far East Asia	1285
Phthalic anhydride	CFR China	1120
	CFR South East Asia	1210
	CFR Far East Asia	1145
PTA	CFR Far East Asia	785
	CFR South East Asia	795
Acetic Acid	CFR Far East Asia	440
	CFR South Asia	440
	FOB China	370
VAM	CFR China	955
	CFR South East Asia	940
	CFR South Asia	1035
Polymers prices $/MT		
PVC Suspension	CFR Far East Asia	800-820
	CFR South East Asia	800-850
ABS Injection	CFR Far East Asia	1350-1400
	CFR South East Asia	1390-1430

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	Northwestern Europe usually consists of the United Kingdom, the Republic of Ireland, Belgium, the Netherlands, Luxembourg, Northern France, Northern Germany, Denmark, Norway, Sweden, and Iceland.
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 12/05/2023				
USD Exchange Rate: 82.16 INR				
Alphabets	Chemicals Name	Current Prices (INR/ kg)	Prices in USD/ mt Equivalent to INR/kg	Location
A	Acetic Acid	40	486.85	Ex-Mumbai
	Acetic Acid	38.5	468.60	Ex-Kandla
	Acetonitrile-imported intact	155	1886.56	Bhiwandi
	Acetone	89	1083.25	Ex-Mumbai
	Acrylic acid	108 Intact Drum	Not Available	Ex-Bhiwandi
	Acrylonitrile	109-110	Not Available	Ex- Kandla
	Adipic acid	127	1545.76	Ex-Bhiwandi
	Aniline oil	161-162	Not Available	Ex-Kandla
	ABS Resin	129	1570.11	Ex-Mumbai Market
B	Benzene	76 (82 Steel Bhilai)	Not Available	Ex-Vizaz
	Butyl Acetate	97	1180.62	Ex-Kandla
	Butyl Acrylate monomer	114	1387.54	Ex-Kandla
	Butyl Glycol (Butyl Cellosolve)	105	1277.99	Ex-Kandla
C	C10	97	1180.62	Ex-Kandla
	C9	83	1010.22	Ex-Kandla
	Carbon Black-regular grade	65	791.14	Mumbai
	Caustic Soda Lye	NA (35.5 Mumbai)	Not Available	Ex-Dahej
	Caustic Soda Flake 50%	48	584.23	Ex-Bhiwandi
	Chloroform	27	328.63	Ex-Dahej
	Citric Acid-ANHYD	82	998.05	Ex-Bhiwandi
	Citric Acid-Mono	75	912.85	Ex-Bhiwandi/Ex-Mumbai
	Cyclohexane	108.5 (106.5 RIL Gujrat)	Not Available	Ex-Hazira
	Cyclohexanone	110	1338.85	Ex-Kandla
D	DMF Drum	88 (Intact)	Not Available	Ex-Bhiwandi
	DEG	83	1010.22	Ex Hazira

E	EDC	32	389.48	Ex-Kandla
	Epoxy Resin	175	2129.99	Ex-Nhava Sheva
	Ethyl Acrylate	150drum, 142tank	Not Available	Ex-port
F	Formic Acid	70	852.00	Ex-Bhiwandi
G	Glycerine	59	718.11	CIF Nhava Sheva
H	N-Heptane	120	1460.56	Ex-Bhiwandi
	Hexane	75-76.5	Not Available	Ex-Kandla
	Hydrogen Perox-ide-50%	30 (29 NPL, 30 Maghmani)	Not Available	Ex-Bhiwandi
I	Isobutanol	85	1034.57	Ex-Kandla
	IsoPropyl Alcohol	91/92.5	Not Available	Ex-Kandla/Ex-Mumbai
L	LAB	135	1643.14	Imported
M	Maleic Anhydride-Drum	91	1107.59	Ex-Mumbai
	MDC	38	462.51	Ex-Dahej
	MEG	47	572.05	Ex-Mumbai
	MEK	98	1192.79	Ex-Kandla
	Melamine	90	1095.42	Imported
	Meta Para Cresol	240	2921.13	Ex-Bhilai
	Methanol	26.75-27.15	Not Available	Ex-Kandla/Ex-Mumbai
	MIBK	203	2470.79	Ex-Kandla
	Mix Xylene-Solvent Grade	89.5	1089.34	Ex-Kandla
	Mix Xylene-Solvent Grade	90	1095.42	Ex-Mumbai
	Mix Xylene-Iso Grade	91	1107.59	Ex-Kandla
	Mix Xylene-Iso Grade	NA	Not Available	Ex-Mumbai
	MMA	150	1825.71	Ex-Kandla
N	N-Butanol	85.5	1040.65	Ex-Kandla/Ex-Mumbai
	N-Propanol	93	1131.94	Ex-Kandla
O	Octanol	113	1375.37	Ex-Hazira
	Ortho Cresol	260	3164.56	Ex-Bhilai
	Ortho Xylene	103 (104 RIL Gujarat)	Not Available	Ex-Mumbai
V	VAM	76.5	931.11	Ex-Kandla
	VAM	77	937.20	Ex-Hazira
Numbers	2,4-2,5 Xylenol	210	2555.99	Ex-Bhilai

P	Phenol	95	1156.28	Ex-Kandla/Ex-Mumbai
	Phenolic Resin	158	1923.08	Ex-Indore
	Phthalic Anhydride	121 (122 IG Petro Taloja)	Not Available	Ex-Bhiwandi
	Propylene Glycol	105	1277.99	Ex-Kandla
	PVC Resin	79	961.54	Ex-Mumbai Market
S	Sodium Nitrate (50Kg Bag)	61	742.45	Ex-Taloja Plant(Make-Lasons)
	Soda ash light	NA (39 Kolkata)	Not Available	Ex-Bhiwandi
	Styrene Monomer	95	1156.28	Ex-Kandla
	Styrene Monomer	98	1192.79	Ex-Mumbai
	Sulphuric Acid	5.5 Vapi / 8 kolkata	Not Available	Ex-Vapi
T	Tio2(Anatase Grade)	190	2312.56	Ex-Bhiwandi
	Tio2(Rutile Grade)	210	2555.99	Ex-Bhiwandi
	Toluene	83.5	1016.31	Ex-Kandla
	Toluene	84.5	1028.48	Ex-Mumbai

Producer Prices (Rs/kg) of Chemicals as on 12/05/2023

Producers	Chemicals Name	Current Price(Rs/kg)	Import parity price in USD/MT	Production capacity	Location
RIL	Toluene	86	1046.74	100,000 tonnes/year	Hazira
	Mix Xylene	88	1071.08	120,000 tonnes/year	Dahej
	MEG	52.1	634.13	750,000 tonnes/year	Jamnagar
	DEG	82.9	1009.01	65,000 tonnes/year	Jamnagar
	TEG	111.7	1359.54	NA	Jamnagar
	LAB	NA	Not Available	180,000 tonnes/year	120ktpa Patal-ganga, 60ktpa Va-dodra
	PTA	83.9	1021.18	1,300,000 tonnes/year	Dahej
NIRMA	LAB	NA	Not Available	120,000 tonnes/year	Vadodra

IOCL	LAB	NA	Not Available	120,000 tonnes/year	Koyali, Gujarat
	MEG	47.9	583.01		Ex-Odis-ha(Paradip
	MEG	49.2	598.83		Ex-Panipat
	Paraffin Wax	118	1436.22		
Deepak Pheno-lics	Phenol	94.5	1150.19	200,000 tonnes/year	Dahej
	Acetone	88.5	1077.17	80.5	Dahej
	IPA Bulk	91.5	1113.68	30,000 tonnes/year	Dahej
Arham Petro-chem Pvt Ltd (Kandla Energy & Chemicals Ltd Refinery)	C9	82.75	1007.18	69,000 tonnes /year	Kandla
	C9	83.75	1019.35	69,000 tonnes /year	Ahmedabad
	C10	96.5	1174.54	30,000 tonnes /year	Kandla
	C10	96	1168.45	30,000 tonnes /year	Ahmedabad
	C10 - Imported Repack	109.75	1335.81	30,000 tonnes /year	Bhiwandi Warehouse
	MTO/White Spirit(kl)	47	572.05	75000 tonnes / Year	Kandla
	MTO/White Spirit(kl)	48	584.23	35,000 tonnes /year	Ahmedabad
	De-Aromatised D40	130	1582.28	75000 tonnes / Year	Kandla
	De-Aromatised D40	131	1594.45	35,000 tonnes /year	Ahmedabad
	De-Aromatised D60	139	1691.82	75000 tonnes / Year	Kandla
	De-Aromatised D60	140	1703.99	35,000 tonnes /year	Ahmedabad
HOCL	Phenol	108	1314.51	40,000 tonnes/year	Kochi
	Acetone	89	1083.25	24640 tonnes/year	Kochi
SI GROUP	Phenol	103	1253.65	39500 tonnes/year	Ratnagiri, Ma-harashtra
	Acetone	64	778.97	24000 tonnes/year	Ratnagiri, Ma-harashtra
	Phthalic Anhydride	120	1460.56	11000 tonnes/year	Ratnagiri, Maharashtra
	Benzene	NA	Not Available	NA	NA

Andhra Petro-chemicals	Octanol	103	1253.65	70,000 tonnes/year	Vishakhapat-nam
	N-Butanol	84	1022.40	30,000 tonnes/year	Vishakhapat-nam
	Iso-Butanol	85	1034.57	4000 tonnes/year	Vishakhapat-nam
Adipic acid	Ex-Deepak	NA	Not Available		
	Ex-BASF	195	2373.42	210,000 tonnes/year	Germany
TATA Chemicals	Soda Ash light	41	499.03	900,000 tonnes/year	Mithapur
GACL	Soda Ash light	NA	Not Available		
GNFC	Acetic Acid	38.5	468.60	160,000 tonnes/year	Bharuch
	TDI Drum	212	2580.33	67000 tonnes/year	Bharuch
	Aniline Oil	166	2020.45		Bharuch
MDC	Grasim	35.5	432.08	33000 tonnes/year	Nagda, Mad-hya Pradesh
	Meghmani	35.5	432.08	397500 kg/month	Ankleshwar, Gujarat
	Rayalseema	NA	Not Available	40 tonnes/month	Bharuch, Gu-jarat
	GACL	32.25	392.53	NA	Bharuch, Gu-jarat
Ethyl Acetate	GNFC	78.5	955.45	50000 tonnes/year	Bharuch, Gu-jarat
	Accord	NA	Not Available		
	Satyam	77	937.20	50 tonnes/day	Nevasa, Maharashtra
	Bhange	NA	Not Available	400ltr/day	Ahmednagar, Maharashtra
	Jubilant	77.5	943.28	280 tonnes/day	Gajraula, U.P
	Laxmi	77	937.20	100000 tonnes/annum	Mahad, Maharashtra
GSFC	Cyclohexane	107.5	1308.42	NA	Gujarat
	Cyclhexanone	105.5	1284.08	NA	Gujarat

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 de-pends on last changing.

BPCL	Benzene	85.5	1040.65	90,000 tonnes/year, Mumbai Refinery,	87000 tonnes/year,Kochi
	Toluene	87	1058.91	16,000 tonnes/year	Kochi Refinery
	Hexane(kl)	86.9	1057.69	35,000 tonnes/year, Kochi	Mumbai Refinery
	Hexane(MT)	130.88	1592.99	35,000 tonnes/year, Kochi	Mumbai Refinery
	MTO(kl)	79	961.54	19,000 tonnes/year	Mumbai Refinery
	Paraffin Wax	118.5	1442.31		
	Sulphur(Molten)	12.4	150.93	19,000 tonnes/year	Kochi Refinery
	Acrylic Acid (Bulk)	100	1217.14	47000 tonnes/year	Kochi Refinery
	Acrylic Acid (Packed)	109	1326.68		Kochi Refinery
	2-Ethyl Hexanol (B)	107.3	1305.99	47000 tonnes/year	Kochi Refinery
	2-Ethyl Hexanol (P)	117.8	1433.79		Kochi Refinery
	N-Butanol(B)	90	1095.42	38000 tonnes/year	Kochi Refinery
	N-Butanol(B)	90.5	1101.51		Kandla Installation
	N-Butanol(P)	101	1229.31		Kochi Refinery
	Iso-Butanol(B)	93	1131.94	7000 tonnes/year	Kochi Refinery
	Iso-Butanol(P)	104	1265.82		Kochi Refinery
	Butyl Acrylate (B)	110.5	1344.94	180000 tonnes/year	Kochi Refinery
	Butyl Acrylate (B)	110.5	1344.94		Kandla Installation
	Butyl Acrylate (P)	120	1460.56		
	2-Ethyl Hexyl Acrylate(B)	144	1752.68	10000 tonnes/year	Kochi Refinery
	2-Ethyl Hexyl Acrylate(P)	154	1874.39		Kochi Refinery
Caustic Soda Lye	Meghmani	35	426.00	400000 tonnes/annum	Bharuch, Gujarat
	GACL	NA	Not Available		
	RIL	NA	Not Available	69500 tonnes/annum	Kurnool Distric, Andhra Pradesh

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T.G UREA / GSFC/GNFC

CAS-Number :-
Molecular Formula :-
Molecular Weight :-mol/g
Available Qty :- 20.0000 Tonnes
Package Size :- 45 kg bag packing
Price :- Available on Request

Markets :- Basic Chemicals | Agro Chemicals | Ceramic | Industrial Chemicals |

Description: Technical Grade Urea

SODIUM SULPHITE 95% / 7757-83-7 / SGS/LOCAL

CAS-Number :- 7757-83-7
Molecular Formula :-NA2SO3
Molecular Weight :- 126.043 mol/g
Available Qty :- 50.0000 Tonnes
Package Size :-50 kg bag packing
Price :- Available on Request

Markets :- Basic Chemicals | Agro Chemicals | Ceramic | Industrial Chemicals |

Description : Physical State:- Powder Colorp:- White Density 2.63 g/cm^3

BORIC ACID 99.50% / SGS / POLAR BAR

CAS-Number :-
Molecular Formula :-H3BO3
Molecular Weight :- 61.83 mol/g
Available Qty :- 50.0000 Tonnes
Package Size :-50 kg bag packing
Price :- Available on Request

Markets :- Basic Chemicals | Agro Chemicals | Ceramic | Industrial Chemicals |

Description : Color:- White Soluble in:- Water, Alcohol

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INNOVATIVE COSMETICS REFILL CONTAINERS FROM STELLA MCCARTNEY BEAUTY MADE WITH UP TO 90% OF SABIC'S CERTIFIED RENEWABLE POLYMERS

SABIC, a global leader in the chemical industry, has joined forces with Stella McCartney Beauty and three renowned French plastic converters (Texen, Leygatech and STTP Emballage) to create a set of innovative new skin and eye care refill containers produced with certified renewable polymers from SABIC's TRUCIRCLE™ portfolio. The containers, which have already been introduced in the market in North America and the United Kingdom, are considered a global breakthrough in responsibly sourced and implemented cosmetics packaging.

Abdullah Al-Otaibi, General Manager, ETP & Market Solutions at SABIC: "This innovation marks a significant step forward in transforming the packaging of cosmetics and skin care products to fully sustainable material alternatives. Moreover, it also demonstrates that our certified renewable polymers can facilitate the change-over by providing efficient drop-in solutions with no compromise in processability, purity, quality or convenience."

The new refill containers have been designed for use with STELLA Alter-Care Serum and Restore Cream. They feature three SABIC polyolefin resins with a combined mass-balanced certified renewable feedstock content of up to 90% and meet with the vegan branding of the cosmetics manufacturer. The container heads are molded in an impact resistant SABIC® HDPE polyethylene (PE) material by Texen, a major player in the market of sustainable cosmetics packaging products. For the container bodies, Leygatech, a leading manufacturer of barrier and multi-layer films, supplies a film made from SABIC® LLDPE (linear low-density polyethylene), which is then processed and printed for finishing the containers by STTP Emballage, a specialized provider of film lamination and flexographic printing services. Flip top closures injection molded by Texen in SABIC® PP polymer complete the packaging.

Together with the refill concept of the durable Stella McCartney Beauty containers, the dedicated use of renewable raw materials aligns with consumer demands for a more responsible use of packaging resources. In addition, once the containers have reached the end of their usable lifetime, the material value of the PP and PE polymers can be recovered through established polyolefin recycling – altogether making this a role model of sustainable packaging.

SABIC's certified renewable polymers include various polypropylene and polyethylene materials derived from second generation renewable feedstock, that is selected to avoid direct competition with human food and animal feed production and is not linked to any direct or indirect changes in land. A cradle-to-gate lifecycle analysis has confirmed the superior sustainability of these polymers, concluding that each kg of the company's bio-based resins reduces CO2 emissions by an average of 4 kg as compared to fossil-based virgin alternatives, while at the same time cutting fossil depletion by up to 80 percent. In addition, these plant-based materials facilitate the change-over from existing fossil-based applications without compromises on purity, quality, safety or convenience.

The mass balance of the renewable feedstock in the SABIC materials is validated by independent third-party accounting according to the widely recognized International Sustainability & Carbon Certification (ISCC PLUS) regime, following a set of clearly defined and transparent rules. The approach allocates the renewable content used in the production and conversion of the plastic materials to the ultimate application. The certification also provides traceability throughout the partners' entire supply chain from the feedstock to the final product and allows brand owners to document the sustainability of their packaging towards consumers.

The innovative cosmetics refill containers from Stella McCartney Beauty will be officially launched and presented by SABIC during Interpack in Düsseldorf, Germany, from May 4 to 10 at Booth B21 in Hall 9.

Source : Sabic

LyondellBasell and Veolia restructure their plastics recycling joint venture QCP

HOUSTON, April 28, 2023 /PRNewswire/ -- LyondellBasell (NYSE: LYB) and Veolia Belgium have signed an agreement to restructure the ownership of Quality Circular Polymers (QCP) BV recycling facilities, with locations in Belgium and the Netherlands. Veolia will sell its 50% share to LyondellBasell which will become 100% owner of QCP.

With full ownership of QCP, LyondellBasell is progressing its strategy to build a profitable circular and low carbon solutions business, to meet customer demand for more sustainable products and solutions. LyondellBasell is well-positioned to continue working with its customers to supply the products and solutions needed, to meet their own goals.

"The demand for circular solutions continues to grow, and LyondellBasell is committed to creating solutions for everyday sustainable living," said Yvonne van der Laan, executive vice president, Circular & Low Carbon Solutions of LyondellBasell. "Full ownership of QCP supports our goal to produce and market at least 2 million metric tons of recycled and renewable-based polymers. We thank Veolia for their collaboration over the past five years and look forward to continuing to work with them as a feedstock supplier."

The QCP mechanical recycling facilities produce special blends, using household plastic waste. QCP's recycled materials are used to make items such as bottles, buckets, caps and closures as well as strollers and suitcases. LyondellBasell will continue to offer QCP polymers under its CirculenRecover brand, with QCP as its growth platform to enable circular solutions.

"Veolia's strategy is to grow its presence across the entire value chain in Europe and worldwide. The divestment of our participation in the QCP is in line with this strategy as it will allow us to internalize additional volumes in our plastics recycling plants in Europe. We will continue cooperation with LyondellBasell, notably by remaining a QCP feedstock supplier for several years," said Eric Troudoux, senior vice president Solid Waste Recycling & Recovery.

Source : Press Release

SANITIZED AG launches new product Sanitized® BDC with dual function as in-can preservative and for product sanitation for the paint industry

Burgdorf/CH, 4 May 2023: Swiss-based antimicrobial solutions provider, SANITIZED AG, has launched Sanitized® BDC, a powerful triple-action product designed from three active ingredients, to protect aqueous systems such as polymer dispersions and architectural paints. Sanitized® BDC offers both product sanitation and in-can preservation for long-term stability. Sanitized® BDC offers a welcome alternative to zinc pyrithione or a pure CMIT/MIT based product for markets with tight biocide regulations.

Sanitized® BDC boasts a unique combination of three active ingredients, DBNPA (2.2-Dibrom-2-cyanacetamide), Bronopol (2-Bromo-2-nitro-1.3-propanediol), and CMIT/MIT (Chlormethylisothiazolinone/Methylisothiazolinone), which have different modes of action and thereby result in optimal efficacy. Sanitized® BDC is therefore effective at low concentrations and can reduce manufacturing run times, simplify processes, and increase product safety.

In addition to its broad spectrum of efficacy Sanitized® BDC provides headspace protection within the packaging, making it suitable for long-term in-can preservation whilst at the same time being fast-acting. The pH stability range is from 2 to 9. These product features make Sanitized® BDC also an ideal product as water disinfection for paint manufacturing. The product offers several advantages over similar products. It is process-, shear-, and heat-stable under normal manufacturing conditions, allowing application during any process step. The market demands zinc pyrithione free products and this new product meets this demand and has no skin sensitization (H317) at the recommended dosage.

Sanitized® BDC is ideal for in-can preservation of polymer dispersions and paints. Test results have demonstrated that Sanitized® BDC, at an active ingredient concentration of 0.10%, effectively and durably inhibits the growth of bacteria, yeasts, and fungi.

The product is available now in Europe and comes with a range of performance advantages, including excellent color stability and product stability, and minimal environmental impact.

Source : Press Release