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INDIA PROMACH 2024
17th – 19th October 2024
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3.	Benzoyl Chloride	CAS RN. 98-88-4
4.	Benzotrichloride	CAS RN. 98-07-7
5	Chloroethylene Carbonate	CAS RN. 3967-54-2
6.	Dichloromethane	CAS RN. 75-09-2
7.	Aniline	CAS RN. 62-53-3
8.	Aluminium Chloride	CAS RN. 7446-70-0
9.	Chlorinated Paraffin-52	CAS NO. 106232-86-4
10.	Chlorinated Paraffin-70	CAS RN. 106232-86-4
11.	Sodium Hypochlorite	CAS RN. 7681-52-9
12.	Methyl Methacrylate	CAS RN. 80-62-6
13.	Methacrylic Acid	CAS RN. 79-49-4
14.	Diethyl Oxalate	CAS RN. 95-92-1

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CphI - Informa Group			
No	**Exibitions**	**Date**	**Place**
1	CPhI North America	May 20-22, 2025	Pennsylvania Convention Center, Philadelphia
2	CPhI Barcelona	Oct 24-26, 2024	Fira Barcelona Gran Via, Spain
3	CPhI Middle East & Africa	Dec 10-12, 2024	Riyadh, Saudi Arabia
4	CPhI China- Virtual CPhI	June 24-26, 2025	Shanghai New International Expo Center
5	CPhI Japan	Apr 09-11, 2025	Tokyo, Japan
6	CPhI Korea	Aug 27 - 29, 2024	COEX, Seoul, Korea
7	CPhI India	Nov 26-28, 2024	Noida, India
MECS (Coating Show)			
1	Asia Pacific Coatings Show	Sept 11-13, 2024	Indonesia
2	Saudi Arabia Coatings Show	May 13-15, 2025	Dammam Saudi Arabia
3	Middle East Coatings Show	2026	Dubai World Trade Centre
4	Coatings For Africa	2026	Johannesburg, South Africa
DYE+CHEM			
1	Dye+Chem Morocco International Expo	Nov 7-9, 2024	Morocco
2	43rd Dye+Chem Sri Lanka International Expo	March 20-22, 2025	Colombo Sri Lanka
3	Dye+Chem Bangladesh International Expo	Sept 4-7 2024	Bangladesh
4	44th Dye+Chem Brazil International Expo	July 10-12 2024	Brazil
Red Carpet Events			
1	Bangladesh Int'l Dyes, Pigments and Chemicals Expo	Oct 24-26, 2024	Dhaka, Bangladesh
Turkey (Arkim Group)			
1	InterDye Textile Printing Eurasia	Nov 27-29 2024	Istanbul, Turkey
2	Paint Istanbul TURKCOAT	2026	Istanbul
3	Paint Expo Eurosia	Oct 01-03, 2025	Istanbul Expo Center / Istanbul Fuar Merkezi
Other Exhibitions			
1	Paint India	Jan 30-31, 2025	Bombay Exhibition Centre, Mumbai
2	Expo Paint and Coating	June 27-29, 2024	Pragati Maidan, New Delhi
3	CIPI	TBD	Mumbai, India
4	Chemspec Europe	TBD	Germany
5	ChemUK Expo	May 21-22, 2025	NEC, Birmingham, UK
6	American Coatings Show	2026	Indianapolis
7	China Coat China	Dec 2024	China Import & Export Complex, Guangzhou
8	Interdye China	TBD	Shanghai, China
9	Paint Expo Germany	Apr 14-17, 2026	Messe Karlsruhe Germany
10	India Chem	Oct 17-19 2024	Mumbai Exibition Centre, India
11	Water Expo 2024	Feb 26-28 2025	New Delhi
12	Inacoating 2024	July 30-Aug 1, 2024	JlExpo Kemayoran, Jakarta - Indonesia
13	Expo Paint & Coating	Sept 19-21, 2024	ICC Dhaka, Bangladesh

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- Potassium Chloride (KCL) By Product and Pure
- Copper magnesium Dioxide - By Product
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3	Benzoyl Chloride	98-88-4
4	Hcl Gas In Methanol	7647-01- 0
5	Methyl Chloroformate	79-22-1
6	Methylamine Hydrochloride	593-51-1
7	Monomethylamine In Methanol	74-89-5
8	Pyrophosphoryl Chloride	13498-14-1
9	4m Hcl Acid In 1,4-Dioxane	7647-01-0
10	Methylamine Solution 40%	74-89-5

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EDITORIAL

CHEMICAL MARKET

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

Oleo chemicals Acquisitions, Expansion and Potential Growth Sector

There was a recent update that Adani Wilmar buys controlling stake in Gujarat Based Omkar Chemicals India Private Limited (OCIPL) As per Adani Wilmar which is a joint venture between Adani Group and Singapore Wilmar. Wilmar is is a leading player in oleo chemicals and one of the largest food-FMCG companies in India. The acquisition is in line with the company's strategy to increase its presence in the specialty chemical industry. OCIPL operates a manufacturing plant in Panoli, Gujarat, with an annual capacity of around 20,000-mt of surfactants, and is planning to scale up its capacity for other products, AWL said.

Here are the other companies which are in the Oleo chemicals segment.

1. Akzo Nobel N.V (Amsterdam)
2. BASF SE (Ludwigshafen, Germany)
3. Cargill Incorporated (Wayzata, Minnesota)
4. Emery Oleochemicals Group (Cincinnati, Ohio)
5. Evonik Industries AG (Essen, Germany)
6. Evyap Oleo (Istanbul, Turkey)
7. Godrej & Boyce Mfg. Co. Ltd. (Maharastra, India)
8. Kao Corporation (Tokyo, Japan)
9. KLK Oleo (Malaysia)
10. Oleon NV (Ertvelde, Belgium)
11. Procter & Gamble Company (Cincinnati, Ohio)
12. PTT Global Chemical Public Company Limited (Bangkok, Thailand)
13. Corbion N.V. (Amsterdam, Noord-Holland)

The global Oleo chemicals market size reached US$ 25.8 Billion in 2023. This just gives us an indication as to how things are shaping up in the Oleo chemicals industry specially everything including FMCG products which are heavily dependent on raw materials from this industry. The global oleo chemicals industry is highly competitive due to the presence of various dominant manufacturing companies as listed above.

The global oleo chemical industry remains robust and is largely dependent on the movement of application markets. Personal care and cosmetics take up a majority share of the market on a global scale due to increasing consumer awareness about the benefits of using personal care products and increased expenditure on cosmetic products. Seeking the opportunity, globally, several multinational brands have emerged with premium cosmetic and personal care products to capture a significant share of the market.

Asia Pacific region is expected to grow at the fastest growth rate of 7.8% from 2023 to 2030, on the account of overall development in the end-use application industries like personal care & cosmetics, food processing, pharmaceutical, and consumer goods. In countries like India, China, Indonesia, and Malaysia, there has been a rapid increase in the number of food processing, cosmetics, pharmaceutical, and textile start-up companies. This is expected to create a lucrative growth opportunity for various oleo chemicals in the industry (as per Oleo Chemicals Market Report Highlights from Grand View Research)

Similarly, KLK expands oleo chemicals processing capacity in China. They have inaugurated a new high-purity fatty acids and glycerin plant in Zhangjiagang, Suzhou located in the Jiangsu province of China, bringing the facility's annual processing capacity to 500,000 tonnes. Before 2024, the company already had a processing capacity of 300,000 tons of palm oil, triacetin, and fatty acid ester products, with a production of 350,000 tons of fatty acids and derivatives per annum. In April 2023, KLK Oleo completed acquisition of Temix Oleo. The company's acquisition is aligned with its strategy to diversify their product portfolio and increase the market share across regions.

In April 2023, Emery Oleochemicals, a producer of natural specialty chemicals announced launch of new product INFIGREEN 420R. This product is derived from post-industrial waste.

Godrej which is also a leader in Oleo chemicals have acquired ethoxylation unit of Shree Vallabh Chemicals in Gujarat. As a leading player in oleo chemicals, surfactants, specialties and biotech, this transaction will help the company expand its product offerings by adding the Ethoxylation technology to its portfolio of process and batch technologies.

- Rajiv Parikh

Dyes Chemical Market

(A Monthly Magazine)

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Organic & Inorganic Chemicals	Price (Rs/Kg)
ACETIC ACID (220 KGS)	@ 44
ACETONE (PVC REFILL)	@ 115
BUTYL ACETATE (REFILL)	@ 104
MEG (REFILL)	@ 58
MDC (GACL INTACT)	@ 34.5
NBA (REFILL)	@ 112
NBA (ANDHRA INTACT)	@ 120
VAM (REFILL)	@ 84
Benzene	99.50
Toluene	97.50
Mix Xylene	103/+
O. Xylene	138/+
IPA	128/+
DCDA	195/+
Methanol	33.25/+
MIBK	123/+
TCCA 90	155/+
DEG	68/+
C. O. 40.	140/+
P. G. Tech	108/+
TEA 99% - PETRONAS	143+
Acrylonitrile Refill	155 +
EDTA 2NA	151+
EDTA 4NA	164+
EDTA ACID	179+
HAS Japan	136+

MIPA 70%	135+
N,N Dicyclohexyl Carbodimide	730 + gst
Propylene Glycol tech	106+
Tetra Hydro Furane – weifang	172+
Iso phthalic- lotte (1mt)	122+
NPG BASF- 100kgs	156 +
Mek m s drum	113 +
O. Xylene	134/+
Ethyl acetate	77/+
BUtyl Cellosolve	144/+
Toluene	95/+
MTO	74/+
Methanol	33.50/+
Gum Rosin	112/+
IPA	124/+
Benzene	96/+
M. Xylene	97/+
DCDA	185/+
MIBK REFFILE	145
Acetone REFFILE	118/+
DEG	69/+
MEG.	57.50+
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Acetone REFFILE	111/+
Ethyle Cellosolve	131.50/+
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Inorganic Chemicals	No of Units Per Pack	Price (Rs/Kg)
Acid Slurry (Soft)	50Kgs	120.00
Alum- Ferric	50Kgs	21.00
Ammonium Bicarbonate	25Kgs	35.00
Ammonium Bi fluoride (sugar-grade)	50Kgs	178.00
Ammonium Carbonate	50Kgs	90.00
Ammonium Chloride	50Kgs	24.00
Ammonium Nitrate	50Kgs	30.00
Ammonium Phosphate (Mono)	50Kgs	135.00
Ammonium Sulphate	50Kgs	22.00
Antimony Trioxide	50Kgs	1050.00
Barium Chloride	50Kgs	58.00
Bleaching Powder (33% Cl)	25Kgs	14.00
Borax (Granular)	50Kgs	70.00
Boric Acid (Tech.)	50Kgs	145.00
Calcium Carbonate (Activate)	50Kgs	18.00
Calcium Carbonate (Precipitated)	50Kgs	17.00
Calcium Chloride Lump 70%	50Kgs	14.00
Calcium Chloride-Anhydrous	50 Kgs	28.00
Camphor Oil	200 Litrs	135.00
Caustic Potash (Flakes)	50Kgs	85.00
Caustic Soda (Flakes)	50Kgs	42.00
Caustic Soda (Prills)	50Kgs	92.00
Chromic Acid Flakes	50Kgs	320.00
Chlorinated Xylene	25Kgs	85.00
Copper Sulphate	50Kgs	220.00
Di ammonium Phosphate	50kgs	34.00
Dioctylmalite	180Kgs	82.00
Ferric Chloride (Anhydrous)	50 Kgs	44.00
Ferrous Sulphate – crystals	50Kgs	16.00
Hydrochloric Acid	Naked	6.00
Hydrogen Peroxide 50%	50Kgs	34.00
Hyflosupercell	22.7Kgs	138.00
Litharge	50Kgs	220.00
Lithopone B301(China)	25Kgs	124.00
Magnesium Carbonate (Indian)	50Kgs	130.00
Magnesium Sulphate	50Kgs	18.00
Mercury	34.5Kgs	7,200.00
Napthaline Balls	50Kgs	130.00
Nickel Chloride	25Kgs	625.00
Phosphoric Acid (85% Tech)	50Kgs	100.00
Potassium Carbonate (Powder)	25Kgs	110.00
Potassium Carbonate (Granules)	25Kgs	92.00
Potassium Nitrate	50Kgs	130.00
Potassium Permanganate [Tech]	50Kgs	190.00
Potassium Permanganate [Pure]	50kgs.	200.00
Potassium Phosphate (Di)	50Kgs	158.00
S.L.E.S	50kgs	55.00
Soda Ash Light	50Kgs	30.00
Sodium Bicarbonate	50Kgs	33.00
Sodium Bichromate	50Kgs	165.00
Sodium Bisulphite	50Kgs	52.00
Sodium Chlorite 50% (India)	50Kgs	240.00
Sodium Chlorite 80% (India)	50Kgs	280.00
Sodium Cyanide	50Kgs	650.00
Sodium Fluoride	50Kgs	150.00
Sodium Formate	50Kgs	55.00
Sodium Hexameta Phosphate 68%	50Kgs	132.00
Sodium Hydrosulphite [China]	50Kgs	180.00
Sodium Metabisulphite	50Kgs	45.00
Sodium Nitrate	50Kgs	52.00
Sodium Nitrite (China)	50Kgs	68.00
Sodium Silicate	Naked	28.00
Sodium Sulphate (Anhydrous)	50Kgs	15.00
Sodium Sulphide 50-52% (Flakes)	50Kgs	58.00
Sodium Sulphide 58-60% (Flakes)	50Kgs	52.00
Sodium Sulphite 92%	50Kgs	56.00
Sodium Tri polyphosphate	50Kgs	101.00
Titanium Dioxide Anatase	25Kgs	200.00

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

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Product Name	Qty	Grade
1-Butyl Triphenyl Phophonium Bromide CAS# 1779-51-7	5 KG	None
Details : 1-Butyl Triphenyl Phophonium Bromide Nashik, Maharashtra, India		

Product Name	Qty	Grade
Dilute Acetic Acid CAS#- 7585-20-8	30 Tonnes	None
Details : **Need it on a regular basis.** Mumbai, Maharashtra, India		

Product Name	Qty	Grade
Copper Sulphate - CAS# 7758-99-8	10 Tonnes	None
Details : **Need it on a regular basis.** Mumbai, Maharashtra, India		

Product Name	Qty	Grade
Titanium Dioxide TIO2 - CAS#: 1317-70-0	5 Tonnes	Chemicals
Details : **Anatase Grade.**		

Product Name	Qty	Grade
XANTHAN GUM FOOD GRADE 80 MESH	40 Tonnes	NA
Details : Shipping location:- CIF offer to Mombasa Port. Currently in need of this item to support our operations, and we would like to know if your company can supply this product. We value quality and require suppliers that can provide us with consistent and reliable products that meet our stringent standards. Ellesmere Port, Cheshire West and Chester, UK		

Product Name	Qty	Grade
2-Acetyl-4-methylpentyl) trimethylammonium iodide - CAS#: 1069-62-1	25 gms	NA
Details : 01 gm, 25 gm & 50 gm you are requested to advise your the best possible offer with Price / COA – Specifications / Packing / Availability / Payment terms for Anand, Gujarat, India		

Product Name	Qty	Grade
Cyanuric Acid CAS#: 108-80-5	1 Tonnes	Industrial
Details : Need it to export to China on a repeat basis. Chennai, Tamil Nadu, India		

Product Name	Qty	Grade
Epibromohydrin CAS No:- 3132-64-7	100 Kgs	Industrial
Details : Please quote the best CIF Air (Shanghai, China) price, with shortest lead time & COA/MSDS China		

Product Name	Qty	Grade
4-Piperidone Hydrochloride Monohydrate 99% CAS No:- 40064-34-4	1 Kg	Industrial
Details : Please share your best offer along with the COA, delivery time, packing detail and payment terms. Ahmedabad, Gujarat, India		

Product Name	Qty	Grade
Starvis 3003F // Viscosity Modifying Agent // 39069090 // BASF CONSTRUCTION POLYMERS GmbH	200 Kgs	Chemical
Details : Looking to buy 200kg Starvis, 1000kg Vinapor 2941 DF and 100 kg Kelco Crete DG-F of genuince BASF material. Melbourne		

Product Name	Qty	Grade
Dilute Acetic Acid	50 Tonnes	Chemical
Details : We are dealing in Acetic Acid, Dilute Acid and Hydrochrolic Acid Since 1987 here in Ahmedabad Ahmedabad, Gujarat, India		

Product Name	Qty	Grade
Corium 4040	250	Industrial
Details : Please quote the best price with lead time & COA/MSDS, Technical document, Brochure of the product, Cost of Shipping to Bangladesh by Sea/AIR (Dhaka Air Port)Both Ways Kolkata, West Bengal, India		

Product Name	Qty	Grade
Selenium dioxide CAS No:- 7446-08-4	25 Kgs	Industrial
Details : Please quote the best price with lead time & COA/MSDS.		

Product Name	Qty	Grade
Nickel Sulphamate	500 Litres	Technical
Details : Please quote the best price with lead time & COA/MSDS. Indiranagar, Bangalore, Karnataka,		

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Product Name	Qty	Grade
Hydrofluoric Acid	50 Kgs	Technical
Manganese Sulphate	100 Kgs	Technical
Boric Acid Crystal Pure	60 Kgs	Industrial
Metal Cleaner	100 Kgs	
Details : Packing Size:- 25 Kgs Spec: LR Grade - 40% Packing Packing Size : 500 Gms Spec: L R Grade Free from Chloride Packing Size: 01 Kg Description:- Spec: IS 10116:2015. Please quote the best price with lead time & COA/MSDS. Indiranagar, Bangalore, Karnataka,		

Product Name	Qty	Grade
Mixed Salt Standard Solution	18 Cans	Industrial
Details : Please quote the best price with lead time & COA/MSDS. ASTM D-3230 Mixed Salt Solution. Ulundurpet, Kallakurichi, Tamil Nadu,		

Product Name	Qty	Grade
2-Chloroethyl Ethyl Ether CAS No:- 628-34-2	200 Kgs	Industrial
Details : Please quote the best price with lead time & COA/MSDS, with packing details. Mumbai, Maharashtra, India		

Product Name	Qty	Grade
geranium china distributor	1000 Kgs	NA
Details : i want to buy perfumery chemicals from china distributors Prayagraj, Uttar Pradesh, India		

Product Name	Qty	Grade
DI-ETHANOL AMINE, LIQUID	2000 Gallons	NA
MONOETHANOLAMINE, LIQUID	60000	Industrial
MEA	96 Tonnes	Industrial
BORIC ACID	3Cans	Any
REAGENT,PYRIDINE-FREE	2 Cans	Any
SILVER NITRATE,CVS 0.1,AMPOULE	2 Packets	Industrial
INDICATOR,UNIVERSAL	10 Cans	Any
GLYCEROL	4 Cans	Any
Details : Please quote the best price with lead time & COA/MSDS. Ulundurpet, Kallakurichi, Tamil Nadu,		

Product Name	Qty	Grade
Normal Heptane 99.5%	10 Cans	Any
Methanol 99.8%	30 Cans	Any
Di-Methyl Disulphide, Liquid	5500 Gallons	Industrial
Propylene Glycol	20 Drums	Industrial
Dichloromethane	4 Cans	Industrial
ISO Propanol	25 Drums	Industrial
Xylene A.R	10 Drums	Industrial
Details : Please quote the best price with lead time & COA/MSDS. Ulundurpet, Kallakurichi, Tamil Nadu		

Product Name	Qty	Grade
Cyanuric acid CAS No:- 108-80-5	15 Tonnes	Industrial
Details : Please quote the best price with lead time & COA/MSDS. Qingdao, Shandong, China		

Product Name	Qty	Grade
Malononitrile (propanedinitrile)	5 Kgs	Industrial
Details : Please quote the best price with lead time & COA/MSDS. Rabale, Navi Mumbai, Maharashtra,		

Product Name	Qty	Grade
Dimethylaminopropylamine (DMAPA) CAS Number:- 109-55-7	5000 Kgs	Industrial
Details : C5H14N2 Please quote the best price with lead time, Sample required & COA/MSDS Mumbai, Maharashtra, India		

Product Name	Qty	Grade
Sodium Hypochloride	120 Kgs	Industrial
Details : Need Quotation asap Dombivli East, Dombivli		

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ResourceWise Brings Its Cross-Commodity Data and Analytics Expertise to New Oleochemicals Service

CHARLOTTE, N.C., June 24, 2024 /PRNewswire/ -- ResourceWise has met a key milestone in providing cross-commodity price benchmarks, data, and analysis on chemicals, forest products, and decarbonization markets.

For the first time, one digital product encompasses expertise that spans all the key commodity sectors that ResourceWise covers. Dedicated to renewable feedstock, the new platform-based oleochemicals analysis and insight tools draw on decades of experience within each distinct business sector.

Dwight Lynch, Biomaterials Business Manager at ResourceWise, is leading the transition towards data and insight on renewable intermediates and biobased and biodegradable polymer inputs.

"Navigating oleochemicals markets at a time when regulation, legislation, and competition from renewable fuels markets are the key drivers is a challenge. Our new service offers pricing and analysis that informs decision-makers and allows sustainable business to thrive."

The new oleochemicals portal in ResourceWise's flagship chemicals market intelligence platform, OrbiChem360, has evolved beyond its legacy biomaterials insights to focus on the fats and oils markets that are key to sustainability.

It presents pricing data and analysis that ResourceWise biomaterials experts have furnished within OrbiChem360 this past decade and includes a crude tall oil (CTO) price index. The inclusion of a forest-based output introduces the ResourceWise platform FisherSolve's pulp and paper industry insight to our portfolio.

Pete Stewart, the CEO of ResourceWise, is focused on the future. "From raw material converters to end-use consumer goods producers, manufacturing value chain participants are increasingly seeking cross-commodity insights to meet low-carbon targets. We are building and providing the data and analytics businesses need to achieve environmental, social, and governance (ESG) targets and market products competitively worldwide.

"The ResourceWise mission is to use the intelligence within the increasingly inter-related business sectors we have harnessed to guide customers in their journey toward a net-zero future. This new offering is the first of many milestones in our endeavor to do just that," adds Stewart.

A Streamlined Renewable Chemicals Service

The new product leverages oleochemical pricing and commentary gathered by ResourceWise legacy brands since 2014 and insight collected since the 1990s. It extends our regional reach with additional price points and streamlines the data and analytics provided.

The new portal is designed with personal care, cosmetics, detergents, lubricants, pharmaceuticals, flavor and fragrance, and food and beverage market participants in mind. However, it provides pricing data and insights for producers, intermediaries, and consumer product manufacturers in broader industries.

More Than Forty Current and Historical Prices

- International price indexes for oleochemicals include the feedstocks soybean, coconut, tall, rapeseed, and palm oils, as well as tallow and glycerine grades
- Dozens of spot and contract prices for fatty acids and fatty alcohols plus comprehensive commentary based on intelligence from a worldwide contact base
- Low-carbon price benchmarks and commentary in our oleochemicals offering will increasingly leverage intelligence on the biofuels sector within the Prima CarbonZero platform
- Global Trade Flow graphics for all oils and tallow to help customers understand how key plant and animal-based feedstocks are traded globally to identify new markets and sources
- Industry experts contextualize data, making it actionable, and respond personally to customer inquiries

Read the full report : http://news.cision.com

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Glacial Acetic Acid Sales to Total USD 16521.8 Million by 2034 with Rising Demand for Sustainable Solutions Amid Implementation of Stringent Government Regulations | Future Market Insights, Inc.

The Asia Pacific region is projected to hold the largest share in the global glacial acetic acid market and is expected to continue its dominance during the forecast period. Rapid industrialization and increasing demand from end-user industries are boosting the growth of the market in this region.

NEWARK, Del., July 1, 2024 / PRNewswire/ -- The global glacial acetic acid market size is projected to be valued at USD 8801.6 million in 2024 and further increase at a CAGR of 6.5% during the forecast period. Worldwide sales of glacial acetic acids are set to total USD 16521.8 million by 2034.

The demand for glacial acetic acid is driven by the growth of the chemical sector, particularly in Asia, which is essential for manufacturing Purified Terephthalic Acid (PTA) in textiles and packaging. The market is expected to grow due to its potential as a sustainable solvent. Companies are investing in research and development to optimize production procedures, reduce costs, and make domestic production competitive. Governments worldwide are implementing stringent environmental laws and offering incentives for bio-based acetic production. Consumers are increasingly aware of environmental issues, and companies that demonstrate sustainability credentials are likely to attract eco-conscious consumers. Companies must adapt their products and marketing strategies to cater to regional market requirements and adhere to regional regulations.

Food Preservation Invigorates Demand for Glacial Acetic Acid Market

Role of glacial acetic acid as an acidity regulator in food & beverages is gaining traction. Moreover rising population accentuates greater demand for food & beverages. Vinegar is increasingly becoming popular in households, which has glacial acetic acid as a chief ingredient. Further, glacial acetic acid is deployed in the fabrication of acetic anhydride.

Glacial acetic acid is used as a condensing agent in acetic anhydride production. Manufacturers prefer glacial acetic acid in view of relatively low price point of raw materials. The wide spectrum of household applications continues to fuel the consumption of glacial acetic acid. Hence, food & beverages industry will witness an upward growth trajectory in glacial acetic acid market.

Read the full report : https://www.marketsandmarkets.com/
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Electronic Chemicals & Materials Market to Attain US$ 127.1 Billion by 2034, with 5.9% CAGR, Says Fact.MR

ROCKVILLE, Md., July 11, 2024 / PRNewswire/ -- According to an updated research report by Fact.MR, the global Electronic Chemicals & Materials Market is projected to increase from a size of US$ 71.7 billion in 2024 to US$ 127.1 billion by the end of 2034, which is equal to market expansion at a CAG of 5.9% from 2024 to 2034.

Electronic chemicals and materials are key to the rising needs of the booming electronics sector. This market is all about various products and materials for electronic device manufacturing such as semiconductors, printed circuit boards, displays, and batteries. The market is thriving due to high demand from microelectronics and chip-making industries globally. Circuit assembly, and semiconductor manufacturing, among others, are some of the operations that depend on different types of specialized substances in these sectors.

Market growth is also being driven by the constant rise is the use of electronic devices in the automotive, industrial, and consumer sectors across the world. Technological advancements are leading to smaller, quicker, and high-performing electronic components, which are also complementing market progress.

Read the full report : https://www.factmr.com/connectus/sample?-flag=S&rep_id=8079

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Indias Battery Boom Powering The Decarbonization Journey

The energy storage sector is on the cusp of a significant transformation in India, driven primarily by the need to decarbonize the electricity and transport sectors. These sectors accounted for 49% of India's total greenhouse gas emissions in 2016, emphasizing the critical role of energy storage technologies in mitigating climate change. Furthermore, to achieve ambitious goals for renewable energy and net-zero emissions by 2070, the country requires a paradigm shift in energy storage solutions. Enter lithium-ion batteries (LIBs).

Market Demand and Projections:

Fueled by a growing focus on decarbonization, India's LIB market is projected for explosive growth. With a CAGR of 50%, the market is expected to reach a staggering 220 GWh by 2030, a tenfold increase in just eight years. This surge is driven by national goals to increase non-fossil energy capacity, source half of electricity from renewables, and significantly reduce carbon emissions.

Technological Advancements:

LIBs are revolutionizing energy storage due to their versatility and range of chemistries. Each type offers unique advantages catering to specific applications:

- **Lithium Cobalt Oxide (LCO):** High specific energy for consumer electronics.

Lithium Manganese Oxide (LMO): Enhanced safety and stability for medical devices and EVs.

Lithium Nickel Manganese Cobalt Oxide (NMC): Versatile for energy and power needs in EVs and industrial applications.

- **Lithium Iron Phosphate (LFP):**

Cell Form Factor	Image	Details
Cylindrical		Cylindrical cells are made by rolling lengthy foils of electrode and separator layers into a multi-layered cylindrical jelly roll and wrapping this roll in a protective casing of nickel-coated steel. These cells have a high mechanical stability and are perfect for mass production. This form factor was previously the most prevalent, and because of its small size, it is suited for chemistries with higher safety risks. These cells have insufficient packing density. Because of its adaptability, cylindrical cells are widely employed in a variety of applications, including mobility and stationary storage, as well as power tools.
Prismatic		The packing density of prismatic cells is substantially higher than that of cylindrical cells. They can also be substantially larger than their cylindrical counterparts, which increases their energy density even further. The electrodes and separators are rolled and fitted in a prismatic aluminum box. This space efficiency occasionally comes at a cost; prismatic cells are normally larger, which might raise concerns about safety and maintenance expenses. Prismatic cells are preferred for mobile and stationary storage applications.
Pouch		Pouch cells are made by stacking different electrode and separator layers. The stacked layers are then sealed inside a pouch made of flexible aluminium foil. Pouch cells are lighter than their counterparts, yet they are prone to swelling and require additional support structures for protection. Pouch cells are used in any application where packing efficiency and weight are important considerations. They are most commonly found in consumer gadgets.

High endurance for stationary applications.

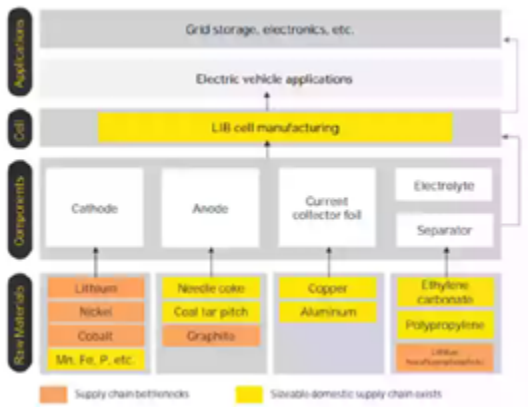
- **Lithium Nickel Cobalt Aluminium Oxide (NCA):** High specific energy for EV powertrains.
- **Lithium Titanate (LTO):** High performance and safety for demanding applications.

Building a Self-Reliant Battery Ecosystem:

To harness the full potential of LIBs, India is actively building a robust domestic ecosystem. The government's Production Linked Incentive (PLI) scheme for Advanced Chemistry Cells (ACC) is a cornerstone initiative, incentivizing companies to establish local manufacturing facilities with a target capacity of 50 GWh. This not only reduces import dependence but also fosters job creation and technological advancements.

Several other government initiatives are propelling the growth of the LIB market in India:

- **FAME-II Scheme:** Launched in 2015, focusing on electrification of public and shared transport with substantial financial support.
- **Production Linked Incentives (PLIs) for Advanced Chemistry Cells (ACC):** A $2.5 billion investment to establish 50 GWh of ACC manufacturing capacity.
- **Union Budget 2023:** Includes customs duty exemptions and reductions for EV and LIB manufacturing.
- **Battery Waste Management Rules (2022):** Promotes environmentally responsible battery waste management.



- **Battery Swapping Policy (Draft):** Aims to enhance resource efficiency and service provision for EVs.

Challenges and Future Directions:

The magic of LIBs lies in the complex interplay of various chemical elements.

Continued on Pg 45

SYENSQO TO SHOWCASE INNOVATIVE SPECIALTY MATERIALS PORTFOLIO DESIGNED FOR ELECTRIC MOBILITY AT THE BATTERY SHOW 2024

Brussels, June 18, 2024 - Syensqo, previously part of Solvay group, will present its advanced solutions for clean mobility at The Battery Show Europe 2024 in Stuttgart, Germany, taking place from June 18-20.

Syensqo is a major player in the transportation industry, offering an extensive portfolio of advanced materials that enable cleaner, safer and more energy-efficient mobility. Driven by its battery materials and green hydrogen growth platforms, which are designed to accelerate the transition to a more sustainable future, the company has been at the forefront of developments in electric vehicle technology for decades.

Syensqo's new PVDF grade, Solef® ZA830, which will be launched at the Battery Show, is a great example of this. Solef® ZA830 is the latest addition to the company's portfolio of cutting-edge PVDF grades tailored for use in batteries made using high nickel cathode active materials, offering unprecedented cathode adhesion and processability. It is commercially available worldwide.

"We're excited to launch our new Solef® ZA830 PVDF at this year's The Battery Show," said Maurizio Gastaldi, Battery Materials Growth Platform Director. "This new grade is designed to meet the needs of our customers by enabling higher production speeds and lower processing costs. Compatible with a wide range of active battery materials, it helps to increase battery cycle life and energy density, delivering long-term performance even while operating at high voltage."

In addition to PVDF, Syensqo offers a range of cutting-edge materials and innovative technologies for current and next-generation electric vehicle batteries, battery packs, e-motors and power electronics, as well as solutions aimed at enabling a faster transition to a green hydrogen economy.

Visitors to The Battery Show 2024 will have the opportunity to find out more about Syensqo's extensive range of solutions for the following electric vehicle applications:

- Battery cell: Syensqo's high-performance fluoropolymers for cell gaskets contribute to improving battery longevity and sealing properties as Li-ion technology advances.
  - Advanced li-ion batteries: Solef® PVDF for cathode binders and separator coatings; Energain® and LiFSI for electrolyte formulations; SolgainTM innovative technology for dry cathodes.
  - Next-generation solid-state batteries: sulfides for solid electrolytes and specialty binders for electrodes.
- Battery pack: Syensqo solutions are engineered to ensure safety in fast-charging batteries with higher energy and power density, addressing the challenges posed by module and pack design.

- Battery recycling: Leveraging 100 years of metal extraction expertise, Syensqo enables a circular value chain focused on reusing essential metals, such as lithium, in batteries. This approach is aligned with Syensqo's commitment to maximizing the use of recycled materials in its products.
- E-motors: Syensqo offers a wide range of market-leading, high-performance polymers engineered to retain their electrical and mechanical properties under extreme conditions, including high operating voltage, elevated temperatures and corrosive environments.
- Power electronics: Syensqo's V0-rated, halogen-free, high-performance polymers have superior electrical properties, which are designed to enhance the safety of components needing to withstand prolonged, elevated temperatures.

- Green hydrogen: Syensqo offers material solutions across the entire green hydrogen value chain – from production to usage – that will help advance the development of a green hydrogen economy.

To find out more, join Syensqo at Booth C40 in Hall 9 at The Battery Show Europe from June 18-20, 2024. Our experts will be happy to address your questions and assist you in finding optimal solutions, tailored to your needs.

Source : Press Release Finder

GUARDIAN GLASS SUPPLIES NEW COATED GLASS SOLUTION FOR THE FIRST HIGH PERFORMANCE PANORAMIC SUNROOFS OF WEBASTO

Luxembourg – June 18, 2024 –Guardian Glass and Webasto Luxembourg announce they have entered an agreement for Guardian to supply a new coated glass solution from the Guardian SilverGuard™ product family for Webasto panoramic sunroofs.

With innovative high performance glass Webasto increases maximum comfort and joy in all types of vehicles. Electric vehicles especially do not have a thermal engine; the energy required to heat or cool the interior takes away energy needed to propel the vehicle. This makes heating and cooling efficiency critical to prolonging battery life.

Guardian Glass has developed its new SilverGuard glass using an innovative, low-reflectivity, low-E coating for the surface of the roof inside the car, combined with a solar control coating for the surface facing the laminated glass interlayer. Together these coatings enhance the total solar factor and the thermal insulation of the glass roof, while providing clear views for the advanced oversized roof glass of Webasto. These coatings also help enhance the special features offered by the Webasto products, such as integrated ambient light, light effects, switchable glazing, or solar cells.

"We are very pleased to enter into this agreement with Guardian Glass," says Axel Berning, Managing Director Webasto Luxembourg. "With the coatings from Guardian, we will start series production of our first high performance glass roofs this year."

Guardian's Bascharage plant, with the company's most energy efficient furnace, has already started delivering prototypes, and will start to deliver pre-series SilverGuard glass products in the second half of 2024. The proximity to Webasto Luxembourg helps to bring more efficiency to the manufacture of this product.

Guus Boekhoudt, Executive Vice President, Guardian Glass, adds "Webasto proven, international success providing leading solutions

for high performance roofs makes this a mutually beneficial partnership. Guardian Glass looks forward to applying our advanced technology and knowledge to future automotive glass applications in the automotive market."

Source : Press Release Finder

DOMO CHEMICALS PRESENTS A NEW OPTIMIZED WORKFLOW SIMULATION TOOL FOR PREDICTING THE EFFECTS OF WATER AND GLYCOL-BASED COOLANTS ON HEATING, SANITARY AND AUTOMOTIVE PARTS FOR THEIR ENTIRE LIFESPAN

- THERMOFIP is a joint initiative focused on expediting the introduction of innovative lightweight components in the fields of mobility cooling and water management.
- THERMOFIP offers unparalleled opportunities for optimizing parts, leading to a substantial weight reduction of approximately 20% for the targeted components.
- THERMOFIP provides predictive simulation which reduces the number of design cycles of complex parts and limits waste generation during the prototyping phase.

Ghent, June 13, 2024 - As part of a collaborative project with Toyota (TME), Renault, SOGEFI, Hexagon Manufacturing Intelligence, and AROBAS Technologies, among others, DOMO Chemicals introduces a brand-new workflow simulation tool for polyamide parts in contact with water and coolant. This THERMOFIP workflow enables the prediction of parts resistance evolution after aging, supporting designers in shaping the right geometries for their new parts without the need for numerous tests.

Along with automotive applications, the THERMOFIP project also delivers prediction capabilities for heating and sanitary applications, which routinely come into contact with water and coolant as well.

Key application examples for polyamide 66 glass fiber compounds in the automotive space are under the hood parts in contact with coolant. Not only is this the case for internal combustion engine vehicles, but also battery electric and hybrid vehicles, and even fuel cell vehicles. In response to the need to reduce CO2 emissions and the resulting changes in engine architecture, accurate predictive simulation technology is becoming a must-have in the plastics industry.

The interactions between the compound's main ingredients (polyamide and filler) and the main components of the coolant, water and ethylene glycol, are complex. They include plasticization, which significantly decreases the compound's glass transition temperature and hence mechanical properties in standard operating conditions. They also include chemical degradation, through hydrolysis of the polyamide chains, and the coolant concentration, which can vary from one side of the part to another. This results in different mechanical performance levels of the material in different points of the part geometry and in time.

Additionally, the consequences of fiber orientation also need to be considered. Due to all these variables, it has been very difficult to predict local levels of performance of such parts through simulation – until now.

By optimizing the simulation and use of fiber-reinforced plastic parts exposed to water and glycol-based coolants, THERMOFIP provides a true game changer for players in the automotive cooling segment and plumbing industry. This outcome is just as important for material suppliers as it is for the companies designing the parts and the carmakers using them. On top of being able to simulate the behavior of static parts, THERMOFIP opens the way for simulating active components in their different positions with the related local stress effects.

"When calculating the final mechanical properties of a part made of glass fiber-reinforced polyamide resin, integrative simulation offers the advantage of also taking the forming process into account. This opens new possibilities for parts optimization with a significant weight reduction of around 20% for the targeted parts," said Gilles Robert, Senior Materials Expert at DOMO.

"Within the THERMOFIP project, we have created a kinetic model to simulate how coolants influence the progressive embrittlement of materials, in order to find new ways of making even lighter parts," Robert added.

The new prototype simulation chain, designed in collaboration with Hexagon and Arobas Technologies, allows the local degradation of parts to be predicted. Several models are now enabling the prediction of material degradation levels caused by aging, which can then be used to anticipate the mechanical performance of coolant-exposed polymers. The study also includes the evolution with aging of material mechanical behavior for different fiber orientations.

The simulations have been validated by empirical testing. One example is the test run on the Localized Strain Demonstrator, designed and molded by DOMO Chemicals. The target pursued was to exclude failures in proximity of the metallic inserts. Results show a high correlation between experiments and simulations.

THERMOFIP is the last addition to DOMO's established MMI simulation offering, which already combines high quality Mechanical - Material modelling and Injection molding simulation.

Source : Press Release Finder

SABIC SPOTLIGHTS AT PIAE 2024 MATERIAL SOLUTIONS FOR AUTOMOTIVE INNOVATION AND SAFETY

- SABIC is showcasing its specialty material solutions for automotive innovation and safety at PIAE 2024.
- Applications on display include wheel inserts for aerodynamics, a front grille with paint-free color, a rearview mirror with EMI shielding for integrated ADAS radar, a service flap for EV charging ports and insulation film for EV battery modules.
- SABIC's materials enable longer useful life of automotive parts, in-

corporating recycled content and avoiding volatile emissions from coating application.

Mannheim, Germany, June 19, 2024 - SABIC, a global leader in the chemical industry, is highlighting here at the 2024 Plastics in Automotive Engineering (PIAE) congress a selection of specialty material solutions that can enhance automotive innovation and safety. The parts and samples at SABIC's exhibit (Stand #11) attest to the company's continuing research, development and investment to promote the benefits of advanced thermoplastics. This strategy encompasses recycled and upcycled content for circularity, molded-in color for volatile emissions reduction, durability for longer useful life, and enhancement of driver assistance systems and electric vehicle battery packs.

"Improving automotive efficiency and safety involves many different aspects of a vehicle's design, production, and operation," said Maureen MacDonald-Stein, director, Portfolio Strategy & Marketing, SABIC Polymers, Specialties business. "Our broad and growing array of specialty resins, compounds and copolymers offers customers multiple options for addressing specific challenges related to these two areas. But our solutions also deliver additional benefits, including potential system cost savings and more-efficient processing compared to traditional materials. As regulatory requirements and megatrends like electrification and environmental protection accelerate the pace of change, SABIC continues to diversify and add value to our portfolio."

Solutions for Sustainability

Aerodynamics plays a role in extending range in electric vehicles (EVs) and reducing fuel consumption in internal combustion vehicles. Wheel inserts can improve aerodynamics by reducing drag, while adding visual excitement and differentiation to a vehicle's design. At its exhibit, SABIC is displaying wheel inserts molded from NORYL™ GTX resin, a high-heat, impact-resistant material that can be painted to enhance aesthetics and also improve the durability of the application . It also features very low specific gravity for weight-out and optimized moment of inertia.

Weatherable SLX

SABIC helps customers achieve sustainability goals and lower system costs with paint-free LNP™ ELCRES SLX resins. These resins help manufacturers avoid volatile organic compounds (VOCs) with a molded in color, high gloss and weatherable solution featured in various automotive exterior applications. Beyond our market leading SLX2271T and 2291T resins, SABIC continues to innovate with solutions that help extend useful life with advancements in scratch resistance, and incorporate recycled content derived by renewable or post-consumer recycled content.

SABIC's LNP ELCRES SLX1271SR resin is another material in this family that provides excellent paint-free aesthetics and weatherability. This product won the 2024 Gold Edison Award in the Materials Science/Advanced Materials category. Besides avoiding volatile emissions from painting, the molded-in color capability of this resin can reduce system costs and accelerate throughput.

SABIC is showcasing an illuminated front grille for an EV that can withstand harsh weather, automotive fluids and impact without the need for hard coating. This is another example of reduction of VOCs from paint and coatings to protect air quality and health. This part is molded from LNP™ SLX1271D copolymer resin, which provides a more sustainable alternative to hard-coated polymer substrates weathers at the similiar rate as painted components, maintaining its desirable aesthetics for 10 years or more. One reason is that the resin forms a self-protecting layer that absorbs UV light on a continuous basis to help retain color and gloss. It also offers automotive OEMs a cost-effective route to designing and producing intricate, illuminated, instantly recognizable signature features as part of their exterior branding strategy.

To amplify the sustainability benefits of EVs, SABIC has developed a service flap assembly for charging ports that features new NORYL GTX™ LMX310 resin. This conductive grade with very low moisture absorption can reduce global warming potential (GWP) by 30 percent compared to incumbent conductive polyamide-based materials.

Solutions for Safety

At PIAE, SABIC is displaying an interior rearview mirror with an integrated driver and passenger monitoring system for improved safety. To provide electromagnetic interference (EMI) shielding, the mirror housing is molded from new LNP™ FARADEX™ 9X23246 compound, a blend of PC and acrylonitrile-styrene-acrylate (ASA) formulated with electrically conductive stainless steel fibers. This application features a custom molded-in dark gray color.

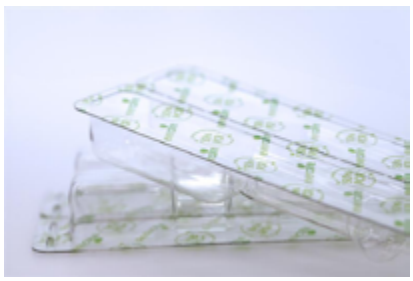
LNP™ THERMOCOMP™ compounds, which won the 2024 Silver Edison Award in the Materials Science/Advanced Materials category, are another family of LNP materials that can be used in automotive safety systems. They offer highly stable and broad dielectric properties for satellite navigation and communication antennas, helping to advance self-driving technology.

Battery safety is a crucial factor in consumer adoption of EVs. SABIC's NORYL™ NHP8000VT3 resin is well suited for insulation film used in EV battery modules to help protect against short circuits and fire propagation. It achieves the highest comparative tracking index performance level category (CTI PLC0) and meets the UL94 V0 standard at 0.25 mm. Samples of insulation film are on display at the SABIC booth.

Source : Press Release Finder

SUSTAINABILITY FOCUSED PET FILM PRODUCER LAUNCHES EVERCARE™ BRAND FOR THE HEALTHCARE PACKAGING MARKET.

Evertis launches Evercare™ brand, set to be a leading provider of specialty and innovative medical-grade films designed to provide superior performance and support regulatory compliance to the healthcare market. Evercare is built on over 65 years of trusted technical Evertis experience in developing PET and PETG films for regulated applications that meet sustainability credentials, and now compliant in meeting the rigorous needs of the healthcare industry.



Evercare sits in a vertically integrated Group that delivers a unique value proposition to healthcare customers in terms of innovation, sustainability and supply chain security. As film converters for packaging, Evertis is integrated with Selenis, a premium supplier of innovative copolyesters resins with solutions specifically developed, and certified for the medical value chain to further support patient safety. As a Group it fully understands and plays its part in circularity whilst reducing the carbon footprint of its products.

Evercare PET and PETG drop-in solutions offer performance and sustainability advantages when compared to other materials. Their films facilitate the thermoforming process, provide improved mechanical and optical properties, and have a better resistance to sterilization. Manufactured in strict compliance with GMP standards and support regulatory compliance needs, Evercare films are offered with declarations such as ISO10993, USP661.1, ISO11607, as well as change notification.

Gonzalo Lopez-Oleaga, Evertis Europe Deputy CEO said; "This is another key milestone in the journey of our Group of businesses. As innovators and thought leaders in polyester-based materials we are now positioned to help healthcare companies meet their sustainability packaging goals, now, and into the future. Behind Evercare we have made large investments operationally, in technology and most importantly GMP manufacturing supported by full certifications to service this market".

Similar to other industries, the healthcare packaging industry faces the challenges of improving sustainability. This is why the Evercare product range not only offers plug & play recyclable PET based solutions, but also two other sustainable options: bio-based and chemically recycled materials with up to 50% post-consumer recycled (PCR) content. All of these options take advantage of vertical integration with Selenis, meeting the same quality and regulatory standards and representing a great opportunity to lower carbon footprint.

Casimiro Sacchetti, CSO Evertis Americas said; "It's an exciting and unique offering for the healthcare market. It's the coming together of experience, deep technical knowledge underpinned by a truly integrated, vertical operational set-up from resin production to extrusion of medical-grade films. With the innovative Evercare film range we are actively supporting the move of our medical & pharma customers towards safe and ecofriendly packaging solutions."

Source : Press Release Finder

THE ROLE OF SUSTAINABILITY IN MEDICAL PLASTICS

In this Q&A, Eastman's Katherine Hofmann explores the vital connection between sustainability and healthcare. She highlights the importance of medical plastics in achieving sustainability goals, discussing challenges, regulations, and emerging solutions. Her insights offer a comprehensive overview of ongoing efforts to advance sustainability in healthcare, with a focus on medical packaging and patient safety.

Why does sustainability matter in the context of healthcare?

The use of single-use plastics revolutionised healthcare, enabling better sterility and reducing potential infection or the spread of infection. However, the negative impact of climate change and environmental waste cannot be ignored. These sustainability issues are not only adversely affecting the environment but also place an additional burden on the healthcare system. Despite the healthcare industry's commitment to "do no harm", it inadvertently contributes toward climate change and waste through the use of single-use plastics in medical packaging. While these plastics are essential for patient protection and optimal outcomes, it is crucial to recognise that environmental health is directly linked to human health. Therefore, it is imperative to develop solutions that protect both patients and the broader

community.

What makes the examination of medical plastics crucial in the pursuit of sustainability?

Companies in the medical plastics industry are setting targets to reduce greenhouse gas emissions and collaborating on recycling programs led by organisations like the Healthcare Plastics Recycling Council (HPRC). These efforts are crucial in preventing medical plastics from being disposed of in landfills or incinerated, as they account for approximately 25% of waste from healthcare facilities and contribute to greenhouse gas emissions. Surprisingly, a study by the World Health Organization (WHO) found that over 85% of plastic waste from healthcare facilities is uncontaminated and suitable for recycling, challenging previous perceptions. While single-use plastics in primary medical packaging are important for sterility and safety, there is a growing need to minimise their environmental impact.

What potential solutions do you see emerging to make medical plastics more sustainable?

While medical device reprocessing programs have been successful, it is anticipated that medical packaging plastics will continue to be used as single-use due to their cost-effectiveness and ease of sterilisation. To improve sustainability, efforts should be directed towards minimising environmental impact through manufacturing, sterilisation, and end-of-use practices. There are several solutions available, including hospitals reassessing the necessity of certain procedures and the adoption of advanced technologies like molecular recycling. This approach reduces greenhouse gas emissions and waste by converting materials into base molecules for the production of new plastics. It not only reduces manufacturing footprints but also promotes circularity by utilising waste as feedstock. Pilot studies conducted by HPRC have demonstrated that medical plastic waste can be utilised effectively across various technologies. Technologies like this encourage us to know that circularity is possible in the industry.

Can you provide insights into the ongoing efforts and projects in the industry that contribute to advancing sustainability in medical plastics?

Several significant initiatives are underway. The National Academy of Medicine has introduced a Sustainable Journey Map to assist healthcare facilities in reducing carbon emissions, including those associated with medical plastics. The Joint Commission has launched a voluntary certification program to recognise and promote decarbonisation efforts within healthcare facilities. The HPRC is actively engaged in various projects, such as harmonising sustainable procurement requirements, evaluating sortation technologies for mixed plastics waste, and collaborating with the Alliance to End Plastic Waste and Methodist Hospitals on a program called .e3TX to establish a scalable and economically viable hospital plastics recycling program. Kilmer Innovations in Packaging Sustainable End of Life (KiiP SEOL) is developing technical documentation to facilitate the regulatory acceptance of molecular recycling for medical packaging. Both HPRC and KiiP SEOL have created educational materials for stakeholders in the value chain, including HospiCycle, a plastics recycling blueprint for hospitals, and information on molecular recycling to enhance understanding of its utility for medical plastics.

What challenges, whether logistical, regulatory, or financial, is the medical plastics industry currently grappling with in the pursuit of sustainability?

Hospitals are under financial and resource pressure that hinder their ability to implement sustainability programs, including recycling initiatives. Limited financial resources and personnel make it challenging for hospitals to allocate additional funds and manpower towards sustainability efforts. Space constraints pose another obstacle, as most hospitals were not designed with plastics recycling in mind. The collection and pick-up of plastics require dedicated space, which may be lacking in many hospitals. This often necessitates the adoption of single-stream collection methods. Right now, municipal waste services do not typically accept hospital plastics, which adds to the logistical complexities that require the full value chain and come new actors to help.

At present, medical plastics are generally exempt from regulations targeting single-use plastics due to their critical role in safeguarding public health. However, the recent Packaging and Plastics Waste Regulation in Europe includes recyclability requirements for medical packaging by 2035. Eastman is engaged in collaborative efforts across the industry to enable the recycling of PETG. By enabling recycling of PETG, the need for creation of new packaging can be reduced.

How can companies explore end-of-use strategies for medical plastics, and what questions should they be asking to ensure both sustainability and financial viability?

HPRC recently published guiding principles related to molecular recycling, which align closely with the principles adopted by Eastman. These principles serve as an excellent starting point for engaging with end-of-use providers initiating discussions about the envi-

ronmental and community impacts of their process, regardless of whether molecular recycling is involved. Key considerations include adherence to waste hierarchy, assessment of greenhouse gas emissions and other environmental impacts, identifying where the material will be processed, and determining potential applications it would go into. It is important to always ask about associated costs, as alternative solutions to landfilling and incineration often come with additional expenses. Determining how these costs will be distributed across the full value chain is important for developing a viable and sustainable strategy.

How can we guarantee that chemically recycled materials are not contaminated, and what criteria should companies consider in determining the safety of medical products made from these materials?

It is crucial to understand that the molecular recycling process effectively removes contaminants. This can be assessed through different analytical testing methods, such as infrared spectroscopy or nuclear magnetic resonance. Both techniques show the molecular make-up of a given material, allowing one to see any contaminants or differences between two products. Additional testing can be conducted to assess factors like biocompatibility, processing and mechanical properties including heat resistance, stiffness, and material flow. It is important to note that these properties will remain consistent as long as the molecular make-up remains the same.

Source : Medical Plastic News

CHEMICAL TECHNOLOGY

UNIVATION TECHNOLOGIES ANNOUNCES LAUNCH OF THE UNIGILITY™ TUBULAR HIGH PRESSURE PE PROCESS TECHNOLOGY AS A LICENSED PLATFORM FOR PRODUCTION OF LDPE AND EVA RESINS

HOUSTON, June 16, 2024 /PRNewswire/ -- Univation Technologies, LLC announces the launch of its latest licensed technology platform – a tubular high pressure PE process enabling production of both low-density polyethylene (LDPE) and ethylene-vinyl acetate (EVA) copolymer resins which is offered under the brand name UNIGILITY™ Tubular High Pressure PE Process Technology.

Based on Dow's well-proven tubular high pressure PE manufacturing platform, Univation's licensed UNIGILITY™ Tubular High Pressure PE Process Technology offers a broad product mix with first quartile operating performance. Safe and reliable operations are achieved through automated plant start-ups and shutdowns, and low operating costs are enabled through a low energy consumption and efficient utility usage plant design.

UNIGILITY™ High Pressure PE Process Technology also delivers high-performance product capability to satisfy a broad array of key LDPE end-use products. Targeted applications include both high-volume and specialty market segments covering general purpose films, agricultural films, shrink films, heavy-duty shipping sacks, as well as extrusion coating and lamination applications.

Additionally, Univation's UNIGILITY™ Tubular High Pressure PE Process Technology allows licensees to participate in key ethylene-vinyl acetate (EVA) end-use applications in industrial and food packaging market segments including greenhouse films, footwear components, flexible hosing, photovoltaics, cheese and fresh meat barrier packaging, and cereal liners. Univation's licensed EVA product offering delivers key performance attributes providing low sealing temperatures, increased flexibility and puncture/impact resistance, improved optics as well as excellent adhesion to a wide array of substrates.

Univation Technologies, LLC, a wholly owned subsidiary of The Dow Chemical Company, is a leading global polyethylene (PE) technology licensor with over 55 years of continuous PE licensing experience focused on the linear low-density PE (LLDPE) and high-density PE (HDPE) market segments. Univation offers its world-renowned UNIPOL™ PE Process platform and Univation's portfolio of polyethylene polymerization catalysts allowing its UNIPOL™ PE Process Licensees to access a broad range of high-volume and specialty polyethylene applications covering unimodal HDPE, bimodal HDPE, conventional LLDPE, and metallocene PE market segments.

Dow Inc. is a leader in LDPE resin production and technology development with a heritage in the field covering more than 80 years of innovation. Dow holds the position as the #1 LDPE producer globally with over 2.6 million metric tons per annum of LDPE capacity.

Nathan J. Wiker, president of Univation Technologies, commented, "Building

upon Dow's and Univation's collective 125+ years' experience in both polyethylene technology development and technology transfer excellence, Univation is pleased to offer licensees a proven, state-of-the-art tubular high pressure PE manufacturing platform and associated portfolio of well-recognized LDPE and EVA resin products." Nathan continued, "Through our UNIGILITY™ Tubular High Pressure PE Process Technology platform, Univation provides a robust licensed technology offering which includes process design, operational know-how, a full portfolio of proven LDPE and EVA resin products, and complete licensing services and technical support before, during and after the plant start-up. We look forward to engaging with potential customers on the full range of benefits of our licensed UNIGILITY™ Tubular High Pressure PE Process Technology and associated LDPE and EVA product offerings."

Please visit www.univation.com to find out more about how Univation's UNIGILITY™ Tubular High Pressure PE Process Technology delivers a complete LDPE/EVA technology solution to meet your company's LDPE and EVA resin production needs.

Source : PRNewswire

NAUTILUS DEFENSE MAKES WORLD-LEADING ADVANCEMENT IN ELECTRONIC TEXTILE TECHNOLOGY

PROVIDENCE, R.I., June 17, 2024 / PRNewswire/ -- Nautilus Defense, a global leader in advanced textile-integrated systems, has demonstrated a critical advancement in the field of electronic textiles. Nautilus announced that it has successfully demonstrated the world's first direct die attach of chiplets to embroidered conductive yarns at a 180µm pitch, a space between yarns that is as thin as a single hair. This technological milestone is an important step toward the scalable manufacture of leading-edge sensor systems that look and feel like the fabrics people wear every day.

"Textiles are simultaneously one of the most ubiquitous, impactful, and unassuming technologies developed in human history. With support from IARPA and collaborations with private industry and higher education, Nautilus is advancing the state of the art in textile-integrated sensor systems," said Jim Owens, CEO of Nautilus Defense. "We are proud to be a pioneer in the rapidly evolving advanced textile industry. The technological advancements we are making at Nautilus will strengthen our national security, create new economic opportunities in our region, and accelerate strategic research initiatives across a range of industries."

Nautilus, through its participation in IARPA's Smart Electrically Powered and Networked Textile Systems (SMART ePANTS) initiative, is developing novel textile-electronics integration technologies that will enable the development and domestic manufacture of innovative products for national defense, medical, aerospace, and other applications. Nautilus has partnered in the SMART ePANTS program with industry and academic leaders including:

- GE Aerospace
- TRX Systems
- Centeye
- Anthro Energy

- Arachne Labs
- The University of Virginia
- The University of Michigan

"Nautilus Defense's newest technology–developed right here in Rhode Island–is a testament to the state's longstanding leadership in manufacturing and textiles," said U.S. Senator Sheldon Whitehouse, who convened the Rhode Island Textile Innovation Network to guide growth of the state's textile industry in the twenty-first century. "I applaud the entire Nautilus team for their pioneering work to strengthen our nation's defense capabilities."

Nautilus was founded in 2013 and has grown to become a global leader in the development and production of advanced textile-integrated systems. The company is headquartered in Pawtucket, Rhode Island which is widely accepted as the birthplace of the Industrial Revolution and was one of the pioneering cities of America's textile industry.

Source : Nautilus Defense

NEW PRODUCTS

LOTTE CHEMICAL DEVELOPED HIGH-INTENSITY FLAME-RESISTANT PP PRODUCTS FOR ELECTRIC VEHICLE BATTERIES... EXPANDING HIGH VALUE-ADDED PRODUCTS.

- Developed high-intensity flame-resistant PP products for electric vehicle batteries with enhanced moldability, eco-friendliness, and lightweight properties compared to the preexisting materials.
- Confirmed resistance to high temperatures and impact with thermal performance and mechanical property tests with an outside institute.
- Providing solutions for various functional materials to meet the needs of battery manufacturers and market.

LOTTE Chemical has developed a high-intensity flame-resistant PP products that can delay thermal runaway in electric vehicle (EV) batteries.

The main cause of fires in EVs powered by lithium-ion batteries is thermal runaway. This occurs in EVs when the battery's internal temperature increases rapidly to exceed 1,000ºC within a few minutes due to physical impacts, overvoltage, over-discharge, or other electrical shocks.

The metal materials currently used in batteries are increasingly being replaced with plastics to improve fuel efficiency and reduce costs. As fire incidents related to EV batteries are rising, there is a growing demand for the development of materials that can slow the spread of fires in areas where flame-resistant plastics are applied.

In response, LOTTE Chemical has developed materials (PP/SGF or PP/LGF) reinforced with Short Glass Fiber (SGF) and Long Glass Fiber (LGF) to enhance intensity.

The SGF and LGF materials, which has improved the intensity and flame-resistant properties of the existing products, offer superior moldability and lightweight components compared to the conventional engineering plastics. Additionally, they are eco-friendly, as they do not contain harmful halogens used to achieve the flame-resistant performance.

Through thermal and mechanical performance testing evaluations by UL Solutions, a global leader in applied safety science, the materials have been recognized for their high-temperature and impact intensity properties. This recognition helps meet the market demand for safe and efficient lithium-ion batteries. Additionally, internal battery thermal runaway tests confirmed that at temperatures exceeding 1,000ºC, PP/SGF retained its original shape for over 300 seconds and PP/LGF for over 600 seconds.

LOTTE Chemical stated that applying the newly developed plastic as a battery material is expected to delay combustion time in the event of a fire, thereby minimizing secondary damage and providing crucial time needed for fire extinguishing.

Meanwhile, LOTTE Chemical is actively promoting high-intensity flame-resistant PP materials for EV (Electric Vehicle) battery modules and is planning to provide various functional solutions

tailored to customer requirements such as the needs of global battery manufacturers and market.

Source : Lotte Chemical

ARCHROMA INTRODUCES INNOVATIVE ULTRA COMPACT COLOR ATLAS

Color Atlas by Archroma®, the industry's largest readily available color library for fashion and home with 5,760 colors, is now easier to use and more portable than ever with the first-of-its-kind Mini Flex and Mini Palette editions.

Pratteln, Switzerland, July 9, 2024 - Archroma, a global leader in specialty chemicals towards sustainable solutions, is introducing an innovative portable version of its market-leading Color Atlas by Archroma® color catalogue to help streamline textile and fashion industry workflows with truly convenient color comparison.

The Color Atlas by Archroma®, Mini Flex and Mini Palette editions are available as convenient libraries of textile color swatches that set a new standard for efficient color selection and comparison while on the go, in the office, factory or in a work-from-home setting.

Color comparison is a fundamental part of the work of designers and their textile mill and brand partners. However, achieving the perfect color match or color harmony without convenient access to color library reference books has long been a challenge. Physical color libraries can be bulky and heavy with even compact editions of physical libraries are too big to fit into a backpack or shoulder bag. The new Color Atlas by Archroma® formats give designers a visual companion tool for digital color libraries may not be accurate due to the limitations of the user's smartphone or tablet display.

The Color Atlas by Archroma® Mini Flex and Mini Palette editions overcome these challenges. Both formats are user friendly and travel-ready, with no mask required to isolate colors for selection and comparison.

The Mini Flex edition features textile color chips that allow users to quickly find and compare colors with their desired target color.

In the Mini Palette edition, individual color chips are inserted into slots in plastic palette sheets for ease of use and portability. Users can carry the premade palette sheet swatches or customize a palette sheet using chips from several swatches.

Both Color Atlas by Archroma® Mini Flex and Mini Palette formats contain 5,760 unique colors: 4,320 cotton colors and 1,440 polyester colors. Each of the colors are also available from Archroma as Engineered Color Standards that include achievability information on alternate fiber types, precise dyeing recipes formulated with products that comply with leading international eco-standards, digital data for recipe predictions, dye eco compliance information and access to expert technical support from Archroma around the world.

"Our Color Atlas has inspired creativity, enhanced communication and helped ensure color accuracy since it was launched in 2016. As new ways of working digitally and physically along with the demand for speed reshapes the fashion and textile industry, we continue to innovate to support brands, designers and mills to work faster and smarter together, wherever they are," Chris Hipps, Global Director, Archroma Color Management, said. "Our innovative new Mini Flex and Mini Palette Color Atlas products provide a true breakthrough for ease of use and portability compared with traditional libraries in use."

Source : Press Release Finder

MONDI AND TRACELESS TEAM UP TO DEVELOP A GROUND-BREAKING COATING SOLUTION FROM AGRICULTURAL BY-PRODUCTS

- Mondi and traceless announce long-term partnership to develop bio-circular coating solution.
- The two experts work together to meet consumers' demands for an alternative to plastic coating for packaging.
- The ground-breaking coating solution is based on natural polymers, saving up to 95% of GHG emissions in production and disposal compared to virgin plastics.

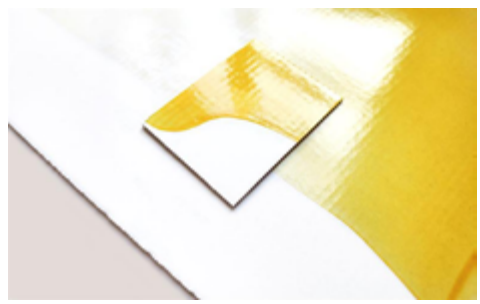
18 June 2024 – Mondi, a global leader in sustainable packaging and paper, is partnering with advanced biomaterial engineers traceless to develop a new coating solution based on by-products from the agricultural industry. This innovative bio-circular coating solution is the first of its kind and will be able to replace traditionally used plastic coating. There is an increasing demand for plastic alternatives in packaging solutions, and this new coating will respond to the demand directly: made from renewable plant-based materials, namely residues from the agricultural industry, it eliminates the need for fossil raw materials. traceless' consequential life-cycle assessment showed that the provision of traceless® material to the market leads to overall greenhouse gas savings of 76% from sourcing to disposal, if the material is used as a replacement for virgin PET. If only the production and disposal phase is considered, these savings add up to 95%. Also, the material is certified home compostable by DIN CERTCO according to NF T51-800.

The joint work of Mondi and traceless on this product started in 2021 and brought world-leading expertise together: Mondi's knowledge in paper coating and packaging solutions, and traceless' expertise for material solutions based on natural polymers. The coating granulates are produced in traceless' pilot plant and are applied to Mondi's kraft paper in Mondi's R&D centre for further testing of the coated paper in the company's laboratories. Later production on industrial scale will take place in a designated plant in Hamburg.

Varying products require different barriers in their packaging and the coated kraft paper solution is tested thoroughly for different packaging purposes, to ensure it can be used across different end-markets: the in-depth trials have confirmed that kraft paper coated with traceless® can resist water, oxygen and fat, while offering good printing abilities for different customers. At the same time, the goal is to develop a solution that is also recyclable in existing recycling streams throughout Europe. Currently, the properties of the bio-based coating are further optimised, fine-tuning the solution to make it fit for different packaging applications for various end-markets such as eCommerce, frozen food, fatty and non-fatty food. The goal is to achieve a packaging solution which can be scaled for a range of different industries and significantly reducing the greenhouse gas emissions throughout the packaging life cycle. 1

Marko Schuster, COO Functional Paper and Films at Mondi, says: "We are always looking at what the next steps are in creating truly circular packaging, following our customers' demands as well as our own innovative spirit. This is a fantastic example of how we can combine our R&D forces to be one step ahead in the sustainable packaging game, contributing to a circular economy."

Anne Lamp, CEO and co-founder traceless adds: "Our mission is to make pollution and waste history by using materials that impact positively. The journey so far has been exciting and insightful, teaching us valuable lessons to ensure our packaging delivers excellent protection. By working with Mondi - its team, its machines and its products and processes - we are adapting our existing expertise in innovative bio-



materials to reduce plastic barrier coatings in packaging. The goal is to create a truly fit-for-purpose product, that works for as wide a range of applications and industries as possible."

Source : Press Release Finder

DOW ANNOUNCES THE LAUNCH OF TWO NEW REVOLOOP™ RECYCLED PLASTICS RESINS WITH UP TO 100% PCR FOR SHRINK FILMS

Dow and RKW Group join forces to develop a shrink film containing household waste recycled plastics

Horgen, Switzerland – June 13, 2024 – Dow (NYSE: DOW) announces the development and launch of its innovative family of REVOLOOP™ Recycled Plastics Resins. This launch marks a milestone in Dow's commitment to advancing circularity and Transforming the Waste.

By 2030, Dow aims to Transform the Waste and commercialize three million metric tons of circular and renewable solutions annually. To achieve this, Dow is expanding its efforts to advance circular and sustainable packaging. Aligned with these sustainability goals, the launch of REVOLOOP™ Plastics Resins comes with a new promise to unlock even more value in plastic waste for customers and partners.

Two new grades of REVOLOOP™ Plastics Resins are launched and are approved for non-food contact packaging applications. One contains 100% post-consumer recycled (PCR) and the second one is a formulated grade which contains up to 85% PCR derived from household waste.

"With the launch of our new grades of REVOLOOP™ Recycled Plastics Resins, we continue to expand our sustainability portfolio, working with brands, converters and recyclers to design new ways to use less plastic in packaging and to help that what is used is fully recyclable," said Fabrice Digonnet, Plastics Mechanical Recycling Strategy Leader EMEA, Dow Packaging & Specialty Plastics. "Our REVOLOOP™ launch is an exciting evolution in our recycling story and enables us to achieve new circularity and low-carbon targets."

Addressing challenges by maximizing resources

Until now, the plastics industry has struggled to maximize recycled plastics household waste to reach demanding applications such as collation shrink films, as it is more prone to contamination than waste from commercial or industrial sources.

The new REVOLOOP™ launch addresses these challenges, marking an exciting evolution in the recycling narrative.

Through collaboration with long-time Dow customer, the RKW Group, one of Europe´s leading manufacturer of shrink films, both parties are achieving new circularity and low-carbon milestones with the use of REVOLOOP™ Recycled Plastics Resins. By combining Dow's material science expertise with RKW's extrusion and printing expertise, they are maximizing the value of recycled plastics household waste streams to achieve historically demanding applications. "This collaboration brings a brand-new collation shrink film to the market," said Konrad

Noniewicz, Director R&D & Application Engineering at RKW Group. "By integrating REVOLOOP™ 100% PCR and REVOLOOP™ containing recycled plastics household waste with virgin materials, we create a flexible packaging solution that meets the requirements for mechanical recyclability, ensuring compatibility with existing recycling processes and contributing to the transition towards a circular economy." The final product is a collation shrink film containing PCR, partially derived from recycled plastics household waste, which meets the high requirements of well-known brand owners around the world. This collaboration between Dow and RKW is a testament for a strong and effective relationship across the value chain, pushing the limits of mechanical recycling and accelerating the circular economy.

Dow & RKW will showcase the new REVOLOOP™ grades and the revolutionary shrink film at the Plastics Recycling Show Europe. Join us from 19-20 June in Amsterdam, Netherlands, to see how our collaborative efforts are shaping the future of flexible packaging. Meet the team of experts at Hall 9, Booth 9-333.

Source : DOW

WANHUA CHEMICAL SHINES AT EUROPE'S BATTERY SHOW

Stuttgart, Germany - June 18, 2024: The Europe Battery Show kicked off at the Stuttgart Exhibition Center, featuring Wanhua Chemical among the global leaders in battery material production, technological development companies, purchasers, and technical experts. The event served as a platform to showcase the latest research achievements and innovative products, while discussing future trends in the battery industry.

Wanhua Chemical presented a variety of battery materials, including electrolytes, cathode and anode materials, as well as auxiliary materials like NMP, PVDF, and PAA.

Low-Temperature Performance LFP

Traditional LFP products suffer from poor low-temperature performance, typically retaining only 30-40% capacity at -20°C. However, Wanhua Chemical has developed a breakthrough low-cost solid-phase process that achieves a capacity retention rate of over 68% and a 10C discharge capacity exceeding 140mAh/g. This product holds significant potential for hybrid electric vehicles and start-stop power sources.

High-Capacity Nickel-Rich NMC 9 Series

Wanhua Chemical boasts comprehensive NMC material technology, including controlled synthesis of multi-scale precursors, multi-site doping, and multi-morphological interface coating. Collaborating with customers, the 9 series nickel-rich materials have achieved a full battery capacity exceeding 225mAh/g at 0.33C, setting a new industry benchmark.

Comprehensive NMP Supply Chain

NMP plays a crucial role in lithium battery manufacturing as a key component in cathode and conductive agent slurries. Last year, Wanhua successfully launched its NMP facility in Sichuan, completing the 290,000 tons/year natural gas-acetylene-BDO-GBL-methylamine-NMP industrial chain, with an NMP production capacity of 80,000 tons/year. This chain represents the world's largest single-line integrated facility, marking a significant step in constructing a battery materials ecosystem.

Wanhua's NMP products are renowned for their exceptional purity and performance, with purity exceeding 99.9%. This high purity ensures the reliability and stability of battery operations, enabling customers to achieve optimal performance and efficiency.

Collaboration with European Partners

Wanhua Chemical actively participates in the development of European electric vehicles, enhancing the efficiency of key battery material recycling and forming a closed-loop management system for the entire battery lifecycle. The company's European R&D centers and industrial parks provide vital support, establishing Wanhua as a crucial partner in the European electric vehicle and energy storage industries. Strategic collaborations with global industry leaders are continuously opening new possibilities for next-generation battery materials and technologies, driving battery material innovation.

With advanced chemical materials and one-stop battery material solutions, Wanhua is committed to powering the world with clean energy, paving the way for a greener tomorrow.

Source : Wanhua Chemical

TRANSFORMING VINYL: HANWHA'S BIO-ATTRIBUTED PVC AND THE FUTURE OF SUSTAINABLE PLASTICS MANUFACTURING

Plastic Free July is a global movement dedicated to reducing plastic pollution, encouraging individuals and companies to find alternatives to plastic. This important initiative highlights the urgent need to address the challenges related to plastic waste in our environment. While plastics have undeniably revolutionized modern life with their versatility and durability, they also pose significant environmental issues.

As we reflect on the impact of plastic, it's important to understand how deep-

ly integrated it is into our daily lives. For example, we use PVC, also known as polyvinyl chloride, every day. Shoes, furniture, floor coverings, water pipes, credit cards, drink bottles, sportswear, automotive interiors, and athletic equipment all use PVC. It has proven to be a highly durable, easy to manufacture plastic that has touched modern life in so many ways.

However, the durability and manufacturing process of PVC and other plastics have also made it a common sight in waste dumps, our oceans, and our bodies. Plastics are slow to decompose, and when they do, they tend to break apart into particles that can literally end up everywhere from the deepest ocean trenches to the top of Mount Everest.

In response to these environmental concerns, companies around the world are rethinking PVC and other plastics, looking for ways to make this essential material better for the environment. As part of this movement, Hanwha has designed a bio-attributed PVC by integrating biomaterials into its manufacture. The new method of production means a type of plastic that is more sustainable by reducing the proportion of fossil fuels used. While Hanwha's innovation is a major step forward, understanding its impact requires examining traditional PVC production and the potential of bioplastics as sustainable alternatives.

PVC and bioplastics

To understand bio-attributed PVC, it is essential to first examine the production and widespread use of traditional PVC plastic.

PVC, a petrochemical product, was initially created in the mid-1800s and gained popularity in the early 1900s as a substitute for natural rubber. By incorporating ethylene from the fossil fuel industry with chlorine, PVC became more versatile, flexible, durable, and fire resistant. Consequently, the residential and commercial construction industries significantly increased their application of PVC for flooring, siding, pipes, and other uses, doubling between 1980 and the mid 1990s. Today, it's one of the world's top-three most widely produced synthetic polymers and one of the top-five general purpose materials, with an estimated 50 million tons produced annually.

The downside is that PVC isn't particularly good for the environment. The production of PVC depends heavily on ethylene and chlorine. Throughout its lifecycle — from manufacturing and usage to disposal — PVC emits harmful chlorine-based substances into the atmosphere and is a significant global source of dioxins.

Because of the concerns about the harmful impacts of plastics like PVC on the environment and human health, the chemical industry is looking for ways to make this vital material more eco-friendly. The invention of bioplastics, which are made from plant or biological materials instead of petroleum, represents a more sustainable alternative. Bio-based plastic can be created by converting sugars from plants like corn and sugarcane into polylactic acids (PLAs) or by engineering polyhydroxyalkanoates (PHAs) from microorganisms. The decreased use of fossil fuels in production and the use of natural materials in bioplastics results in lower CO2 emission levels compared to traditional plastics which slows climate change, offering a more environmentally friendly option.

Hanwha's bio-attributed PVC

Markets around the world, particularly in Europe and the United States, are making strides in developing and utilizing bioplastics to replace conventional plastics. The global bioplastics market is projected to expand significantly, growing from a global production capacity of 2.2 million tons in 2023 to an anticipated 7.4 million tons in 2028.

One reason the global market is growing is the increased drive by industries that rely on PVC to lower their carbon footprint. Key strategies now revolve around prioritizing low-carbon materials, with a notable emphasis on ecologically friendly PVC. A leading example is Hanwha Solutions Chemical Division's bio-attributed PVC, which incorporates biomaterials like corn, waste cooking oil, and wood. This innovative material can cut CO2 emissions by 58% compared to standard PVC thanks to its use of natural materials in the manufacturing process.

Due to its sustainability as a bio-product and its low-carbon production method, Hanwha Solutions' bio-attributed PVC has earned the highly coveted ISCC PLUS certification. ISCC PLUS is an internationally recognized certification system that ensures systematic management of the production and distribution processes within the bioeconomy and circular economy sectors. Achieving ISCC PLUS certification is a rigorous process, requiring stringent adherence to environmental and sustainability standards throughout the supply chain.

Consequently, Hanwha Solutions Chemical Division's bio-attributed PVC offers a practical path to carbon neutrality. It retains the same physical properties and processing methods as conventional PVC, ensuring quality and production efficiency without the need for significant changes to existing infrastructure.

Source : Hanwha

Continued from Pg 30

However, India currently relies heavily on imports for critical raw materials like lithium, cobalt, and nickel. To address this challenge, the government is pursuing a multi-pronged approach:

- **Unlocking Domestic Treasures:** Incentivizing exploration and development of domestic mineral reserves.
- **Strategic Partnerships :** Forging alliances with resource-rich countries to secure a stable supply chain.
- **Recycling Revolution :** Investing in efficient battery recycling technologies to recover valuable materials and minimize environmental impact.

Major Players and Local Production

India's domestic ACC battery manufacturing sector growth is well supported by various government initiatives on both the supply and demand sides. The discovery of substantial lithium reserves in Jammu and Kashmir and Rajasthan presents a major opportunity for local lithium production, potentially meeting 80% of India's demand.

Leading industrial houses like Reliance, Ola Electric, and Rajesh Exports are actively setting up ACC manufacturing facilities, capitalizing on government incentives and contributing to a vibrant domestic production landscape.

Way Forward

India's burgeoning battery market presents a compelling opportunity for economic growth, job creation, and environmental leadership. By capitalizing on government initiatives, fostering domestic manufacturing with a focus on sustainability, and investing in cutting-edge research, India has the potential to not only meet its own energy storage needs but also emerge as a global leader in advanced battery technology, shaping a cleaner and brighter future for generations to come.

Source : Team Chemical Market

The Green Revolution 2: Why Agrochemicals Are Sprouting In Indias Chemical Industry

The Indian chemical industry is a sprawling landscape, but one segment is currently experiencing a surge in growth – agrochemicals. Traditionally, specialty chemicals dominated the market. However, a confluence of global factors is leading experts to favor crop protection solutions, marking a potential turning point for the sub-sector.

Seeds of Change: The Rise of Agrochemicals

Several factors are sowing the seeds for a robust agrochemical market in India:

Food Security on the Menu: The global population is projected to reach 9.7 billion by 2050, putting immense pressure on food production systems. This compels farmers to maximize yields, which can be achieved through effective use of fertilizers and pesticides

Climate Crossroads: Erratic weather patterns and extreme weather events due to climate change disrupt agricultural cycles and create ideal conditions for pests and diseases. This necessitates the use of advanced crop protection solutions.

Domestic Demand Potential: India is the world's largest producer of pulses, second-largest producer of rice and wheat, and a leading producer of fruits and vegetables. This vast agricultural base necessitates a robust agrochemical industry to ensure food security and meet growing domestic demand.

Market Growth: A Promising Trajectory

The Indian agrochemical industry is on a steady growth path, as reflected in the projected market size of USD 8.22 billion in 2024. This figure is expected to climb to USD 13.08 billion by 2029, translating to a Compound Annual Growth Rate (CAGR) of 4%. This growth is fueled by several factors, including:

Increasing agricultural productivity: India's government initiatives to modernize agriculture and improve farm yields are driving demand for crop protection solutions.

Growing adoption of packaged and

branded products: Farmers are increasingly shifting away from generic pesticides towards more reliable and effective branded products offered by agrochemical companies.

Rising disposable incomes: With increasing disposable incomes, farmers are more willing to invest in high-quality agrochemicals to protect their crops and ensure better yields.

Global Prominence: A Leader on the World Stage

Underscoring its significance, India stands as the fourth-largest producer of agrochemicals globally. This accomplishment places India in the company of giants like the USA, Japan, and China. This prominent position is a result of several factors:

Strong domestic manufacturing base: India has a well-established domestic manufacturing base for agrochemicals, with a large pool of skilled labor and cost-competitive production capabilities.

Favorable government policies: The Indian government has implemented supportive policies to promote the growth of the agrochemical industry, such as providing subsidies for setting up manufacturing units and R&D activities.

Focus on exports: Indian agrochemical companies are increasingly focusing on exports to tap into the global market. This is evident in the country's strong export performance, with India emerging as the second-largest exporter of agrochemicals globally according to industry reports.

A Sustainable Future

While agrochemicals play a crucial role in boosting agricultural productivity, concerns about their environmental impact remain. The focus is now on developing and adopting sustainable solutions:

Biopesticides: The use of biopesticides derived from natural sources is gaining traction as a safer alternative to conventional chemical pesticides. The Indian biopesticide market is projected to reach USD 420 million by 2025.

Precision Farming: Integrating technology into agricultural practices like using drones for targeted pesticide application can minimize environmental impact and optimize resource use.

The Indian agrochemical industry is poised for significant growth, driven by rising global food security concerns and a large domestic agricultural sector. With a focus on innovation and sustainable practices, this sub-sector has the potential to be a key driver of India's agricultural revolution 2.0.

Source : Team Chemical Market

The Electric Vs Gasoline Pollution Paradox A Deep Dive Into The Sustainability Debate

The transportation sector, a cornerstone of modern life, is undeniably a major contributor to global greenhouse gas emissions. The International Energy Agency (IEA) reports that it accounts for nearly a quarter of global energy-related CO2 emissions. As the world grapples with the increasingly urgent need to address climate change, the debate surrounding the environmental impact of electric vehicles (EVs) versus gasoline-powered cars has taken center stage. In this article we aim to provide a comprehensive analysis of the complex pollution paradox, examining the entire lifecycle of both options, from energy generation to end-of-life disposal, and drawing on global industry reports and data.

Unveiling the Hidden Costs of Gasoline: A Global Energy and Pollution Crisis

The environmental impact of gasoline extends far beyond the tailpipe emissions that often dominate public discourse. A comprehensive analysis reveals a complex web of energy-intensive and polluting processes, from extraction to consumption, that impose a significant burden on the planet.

1. Staggering Energy Consumption: The oil and gas industry is a voracious consumer of energy, devouring approximately 8% of global energy production, according to the IEA. This encompasses energy used for exploration, drilling, pumping, refining, and transportation—a massive expenditure before a single drop of fuel even reaches a vehicle.

In the US alone, over 435,000 pump jacks consume enough electricity monthly to power 15 million EVs, underscoring the energy-intensive nature of oil extraction.

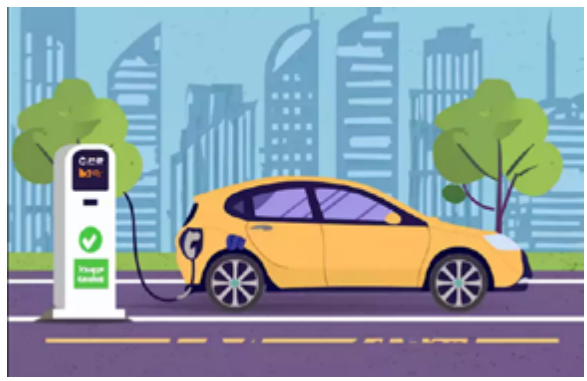
2. Widespread Pollution and Environmental Degradation:
    - Methane Emissions: Oil and gas operations are a major source of methane, a potent greenhouse gas with over 80 times the warming power of carbon dioxide over 20 years. Leaks and venting from wells, pipelines, and other infrastructure release significant amounts of methane into the atmosphere, accelerating climate change.
    - Water Contamination: Oil spills, like the Deepwater Horizon disaster in 2010, cause catastrophic damage to marine ecosystems and coastal communities. Even routine oil and gas operations contaminate water through wastewater discharge and accidental releases, impacting both surface and groundwater resources.
    - Air Pollution: Refineries, essential for processing crude oil into gasoline, are notorious for their air pollution emissions. They release harmful pollutants such as sulfur dioxide, nitrogen oxides, particulate matter, and volatile organic compounds, contributing to respiratory problems, acid rain, and smog. The cumulative impact of these emissions on human health and the environment is substantial.
3. The Ripple Effects on Communities and Economies: The environmental damage caused by gasoline production often disproportionately affects marginalized communities living near extraction sites, pipelines, and refineries. These communities may experience increased health risks, displacement, and economic hardship due to pollution and land degradation. Indigenous communities are particularly vulnerable, as their lands and livelihoods are often directly impacted by oil and gas development.

This comprehensive analysis reveals that the true cost of gasoline extends far beyond the price at the pump. It encompasses a vast network of energy-intensive and polluting processes that have severe consequences for the planet, its ecosystems, and the communities that depend on them. By understanding the full extent of these hidden costs, we can make more informed decisions about our energy choices and transition towards a more sustainable and equitable future.

The Electric Ascent: Embracing a Cleaner, More Efficient Future

While EVs are not entirely emission-free, they offer a more sustainable and efficient alternative to gasoline-powered vehicles, especially as renewable energy sources continue to grow.

- **Renewable Energy Boom:** The global transition to renewable energy is gaining momentum. According to the **International Renewable Energy Agency (IRENA),** in 2022, renewables (excluding hydropower) accounted for 12.4% of global electricity generation. This share is expected to increase dramatically in the coming years, as governments and businesses invest in solar, wind, and other clean energy technologies.
- **Grid Decarbonization:** As grids integrate more renewable energy, the carbon footprint of EV charging decreases significantly. In some regions with high renewable penetration, EVs are already powered by predominantly clean electricity.
- **Technological Advancements:-** Continuous innovation in battery technology is enhancing the energy density, range, and lifespan of EV batteries. This not only makes EVs more attractive to consumers but also improves their overall efficiency and reduces their environmental impact over time.
- **Reduced Air Pollution:** EVs produce zero tailpipe emissions, leading to improved air quality in urban areas. This is particularly beneficial for public health, as air pollution is linked to respiratory and cardiovascular diseases.
- **Energy Security:** By relying on domestically produced electricity rather than imported oil, EVs can enhance energy security and reduce vulnerability to geopolitical tensions and price fluctuations in the global oil market.



Lithium Mining: Addressing the Challenges and Embracing Solutions

The extraction of lithium, a key component of EV batteries, raises legitimate environmental concerns. However, responsible mining practices and technological advancements offer potential solutions to mitigate these impacts.

- Direct Lithium Extraction (DLE): Emerging DLE technologies promise to extract lithium from brines with minimal water usage and environmental disruption compared to traditional evaporation ponds. While still in development, DLE has the potential to revolutionize lithium production and reduce its ecological footprint.

- Battery Recycling: Advancements in battery recycling technologies are making it possible to recover valuable materials like lithium, cobalt, and nickel from spent EV batteries. This not only reduces the need for new mining but also minimizes waste and conserves resources.
- Alternative Battery Chemistries: Research into sodium-ion, solid-state, and other battery types is ongoing, offering potential alternatives to lithium-ion batteries in the future. These alternative chemistries could alleviate concerns about lithium availability and environmental impact.

Key Players Driving the Electric Vehicle Market

The electric vehicle market is rapidly evolving, with several major players leading the charge towards a more sustainable transportation future:

Leaders

- **Tesla:** The undisputed pioneer and leader in the EV market, Tesla has revolutionized the industry with its innovative technology, stylish designs, and extensive charging network.
- **BYD:** A Chinese automaker that has emerged as a major player in the global EV market, BYD is known for its affordable electric cars and buses.

Others:

- **Volkswagen Group:** The German automotive giant has made a significant commitment to electrifying its fleet, with ambitious plans to launch dozens of new EV models in the coming years.
- **General Motors:** GM is investing heavily in electric vehicles and autonomous driving technology, aiming to become a leader in the electric mobility space, although 3 years ago, Joe Biden claimed GM as the leader in EV, which was obviously false as evident in the number of vehicles Tesla makes v/s GM.
- **Hyundai-Kia:** The South Korean automaker has introduced a range of successful EV models, including the Hyundai Kona Electric and Kia Niro EV, and is expanding its electric lineup rapidly.
- **Wuling:** The Chinese manufacturer of automobiles, subsidiary of Guangxi Automotive Group produce engines, and special purpose vehicles, namely mini electric cars, people movers, trucks and buses, and auto parts.
- **Polestar:** is a Swedish automotive manufacturer that produces electric vehicle, owned by Volvo Cars headquartered in Torslanda, Sweden.

The Road Ahead: A Collaborative Journey Towards Sustainable Mobility

The transition to electric mobility is a complex undertaking that requires collaboration between governments, industry leaders, and consumers.

- **Policy:** Governments play a crucial role in accelerating EV adoption through supportive policies. This includes financial incentives like tax credits and rebates, investments in charging infrastructure, and regulations that promote responsible mining and battery disposal practices.
- **Industry:** Automakers must continue to innovate, making EVs more affordable, efficient, and appealing to a wider range of consumers. Battery manufacturers should prioritize sustainability in their supply chains and invest in recycling technologies to create a closed-loop system.
- **Consumers:** Individuals can contribute to the electric revolution by choosing EVs, supporting clean energy initiatives, and advocating for policies that promote sustainable transportation. By making informed choices and raising awareness, consumers can drive the demand for cleaner vehicles and a greener future.

Source : Prashant Singh,
Edited By: Rajiv Parikh

The Rise of Sustainable Packaging A Focus on IML Technology

Are you against single-use plastics? The yearly global plastic production has reached over 400 million tons and is expected to grow to 35 billion tons by 2050 and it is no surprise. They have created a huge challenge to our environment. Now, the Packaging industry is often criticized for overusing plastics due to their practices such as excessive Packaging, single-use Packaging and utilizing plastics for aesthetic reasons at the cost of sustainability. Therefore, the Packaging industries are coming up with new technologies and innovations that emphasize sustainability. If you are following the trends and updates regarding the adoption of circular economy in the plastic industry, you should continue reading this article. Let's begin.

Inclination towards sustainability

practices:

Plastics are simply inevitable in the Packaging sector. Since plastics provide excellent barriers against moisture, oxygen, and contaminants they keep the food fresh and safe. Also, plastics allow companies to create visually appealing Packaging for their products such as vibrant graphics, and other elements for branding purposes.

Companies worldwide, especially Indian Packaging industries have come up with innovative and sustainable Packaging solutions or mitigation strategies such as minimalist Packaging, smart Packaging, reducing the amount of plastics, leveraging transparency tracking down the progress and driving with accountability.

Since the awareness among consumers towards sustainable solutions is growing, companies want to showcase themselves as environmentally responsible and their sustainable practices to attract customers.

IML technology in the Packaging industry:

You can't keep the image of the eye-catching labels of your favourite beverage or the outer Packaging box of a new appliance from your favourite brand. If you have the habit of reusing those plastic containers for kitchen or utility purposes, you may notice that these labels stay there in the plastic containers longer than usual. These labels carry the mark of innovation from Mold – Tek Packaging Ltd. For a long time, Mold- Tek has been the silent sculptor who worked for the branding of these food and beverage companies.

Mold-Tek Packaging Ltd. have earned the trust of the leading industry leaders from household brands to big giants. Every industry relies on the expertise demonstrated over the years. The IML technology developed by Mold-Tek Packaging Ltd. Protects the product and ticks the aesthetical requirements while focusing on sustainable practices.

What is IML technology? IML technique the pre-printed labels are placed into the mold before even inserting the plastics, after that the plastics are injected into the mold which allows the encapsulation of the product with the label. The process typically is done in three different ways such as injection moulding, blow moulding and thermoforming, but the idea remains the same. Therefore, the technology made high-quality labelling and branding possible most sustainably.

Steps involved in the IML process:

1. **Designing the label:** The designing team of the company's brainstorms, researches, and analyzes various factors of the products such as features, benefits, unique selling points, target audiences, market trends and others and then comes up with labels for their products. Then These labels are finalized and printed on special substrates.

2. **Label cutting:** The labels are cut using rotary dies or steel rule dies to get the precise shapes and sizes that precisely match the containers or boxes. Then the manufacturers employ laser cutting technologies for higher precision. Now, the design engineers and developers align the shape of the labels to conform to the contours of the mold cavity. Therefore, complex shapes require more precise cutting methods.

   For instance, the rounded corners or specific edge shapes are given more focus to avoid peeling away or misalignment of the labels during the molding process. The designers and developers also consider optimization of the materials to avoid wastage and the scraped materials are recycled for efficient management of the materials. Then the labels are then integrated into the molding process. Thus, in contrast to the conventional printing methods, the number of production steps is reduced. The reduced number of steps in the production processes leads to reducing the scrape rates and reducing the material wastage compared to the conventional labelling processes.

3. **Label placements:** The labels are then placed into the mold with the help of automation systems. This eliminates human errors and ensures precise alignment of the containers with the labels without disturbing the branding value. Especially the technology helps much in the incorporation of QR codes, RFID tags, and NFC technologies for interactive and trackable products. The technology also goes well with advanced graphical elements such as holographic, 3D effects for more engaging product Packaging.

4. **Molding:** The moulding process is where the plastic is injected, blown or thermoformed into the mould. IML coating technology encloses the decoration or image between two or more layers of plastic materials which exhibits brilliance to the image with anti-scratch characteristics to the labels.

5. **Cooling and ejection:** The molded parts are then allowed to cool down and ejected from the mold with the

label integrated.

Growth of IML printing technology:

The market value of IMP printing technology was at USD 407 million in 2023 and is expected to reach USD 914.2 million by 2030 with a CAGR of 12.0%. Since the cutting-edge Packaging method is both aesthetically pleasing and long-lasting, they are preferred by several sectors including consumer products, cosmetics, medicines, food industries and significant others.

IML labels act as an excellent barrier against UV light, chemicals and moisture, therefore the labels serve as good protectors and ensure the integrity and freshness of the contents inside the container, especially food.

The performance and longevity of the IML labels are further enhanced by the incorporation of new materials and adhesives.

The Packaging industry is immensely driven by consumer demand for environmentally responsible products and technologies that reduce the environmental footprint. There are several advancements in the Packaging industry and IML technology stands as a representation of all of these innovations. Overall, IML technology and sustainable practices are shaping the future of the Packaging industry and paving the way for a more sustainable and responsible future.

Source : Vinodini Harish

Beyond Spectrum-Unveiling The World Of Dyes

The ancient art of dyeing has evolved with time, driven by relentless curiosity, unyielding ambition, and the ever-present thirst for the novel and beauty. The dyes that once adorned the robes of emperors and the banners of conquerors now infiltrate our everyday lives. From the clothes we wear to the screens we gaze into, their invisible influence shapes our perceptions and experiences. In this short article, we explore the realms of both, Synthetic dyes and Eco -friendly dyes.

Dyes and pigments are colourants used in various applications, but they differ significantly in their properties, applications, and how they interact with the substrates they colour.

Dyes are soluble in the solvent and bond with the dyed material, forming strong chemical bondswith the substrate. These could be ionic, covalent or hydrogen types. The colours are more prone to fading when exposed to light, and are less durable in outdoor and harsh conditions. However, dyes can produce vibrant and varied colours making them popular in textiles, leather and food coloring.

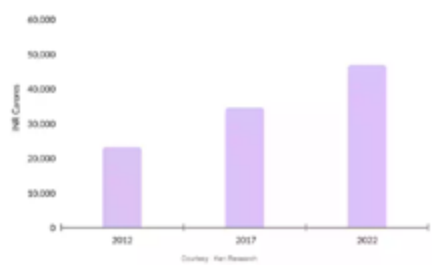
Pigments on the other hand are insoluble in the medium they are used with. They consist of finely ground particles suspended in a binder medium. Pigments do not form chemical bonds with the substrate; instead, they adhere to the surfaces through the binder. They are more durable when exposed to harsh outdoor conditions. Due to their particulate nature, they are generally less bright compared to dyes. These properties make pigments ideal for use in paints, coatings, inks, cosmetics and art supplies.

In India, the types of dyes used include Azo, Acid direct, Disperse, Reactive, Sulphur, Vat and Natural. Each type has unique properties and applications ranging from synthetic fabrics, textiles, leather, plastic, paper, etc. Natural dyes are used in food colouring agents and cosmetics.

The illustration below shows the trends in the Indian dyes market for over the past decade. Increasing demand and Innovations in Dye chemistry have driven these rising trends.

India, being a large exporter of textiles and ready-made garments, sees a significant Impact of dyes on fashion. There are around 800 manufacturers in India, with a few large players like Bodal Chemicals, Clariant Chemicals, Atul Chemicals, Aksharchem Ltd, Kivi Industries, Colortex Industries and Jay Chemicals Ltd dominating the organized sector. The rest of the market is in the unorganized sector, which is highly fragmented. The Reactive Dyes segment holds the majority volume share, primarily catering to the textile sector. Anticipated growth in the dyes sector will be driven by a rise in population coupled with a higher GDP growth rate. The estimated growth in the dyes segment is around 6% CAGR.

India Dyes Market Size on the Basis of Revenue in INR Crores, 2012, 2017 and 2022E



However, challenges such as environmental concerns, cost constraints, and regulatory standards impact our efforts towards Sustainable fabric dyes. As a major exporter of textiles and apparel, India must constantly innovate to keep up with fashion trends using acceptable dyes and ingredients. This scenario could lead to a spate of M&As in the future, particularly in the unorganized sector. Further, there could be a lower consumption of Synthetic dyes and a greater use of Eco-friendly dyes.

Dyes are like a narrative that is still being written. With new discoveries on the horizon, we glimpse at the essence of human creativity -- ever-evolving, ever colourful and forever intertwined with human sentiment.

Source : Team Chemical Market

University of Leeds Signs Landmark MoU with Institute of Chemical Technology Mumbai

The new partnership promises cutting-edge collaboration to promote innovation and excellence in the engineering and chemical technology fields

Mumbai, – [4th July 2024] – The University of Leeds has signed a Memorandum of Understanding (MoU) with the Institute of Chemical Technology (ICT), Mumbai. This partnership marks a significant step forward in fostering international collaboration in the fields of chemical technology and engineering.

The collaboration between ICT and the University of Leeds is poised to significantly impact the future of higher education and research in both countries. By combining the strengths of two leading institutions, this partnership will promote the development of innovative solutions to global challenges, enhance the quality of education, and provide students with a global perspective. The exchange of knowledge, resources, and talent will create a robust educational environment, fostering creativity and critical thinking among students and researchers.

The newly signed MoU outlined the development of collaborative research projects and the organisation of joint academic activities, including workshops, conferences and seminars. Additionally, it promotes the exchange of research and teaching personnel, student placements and exchanges, and the sharing of publications and other materials of mutual interest. Both institutes will also collaborate on joint funding applications to support and enhance their research and educational initiatives under the newly announced partnership.

Dr Andrew B. Ross, Associate Professor in Energy and Resource Recovery, International lead for School of Chemical and Process Engineering, University of Leeds, commented on the MoU, saying, "We are delighted to formalise our partnership with the Institute of Chemical Technology, Mumbai. This collaboration will not only enhance our research capabilities but also provide our students and faculty with unique opportunities for international engagement and learning."

"The University of Leeds and the Institute of Chemical Technology Mumbai have previously secured funding from the Newton-Bhabha fund, and the UK Global Challenges Research Fund. A particularly successful collaboration was the BEFWAM project, investigating the management and utilisation of Invasive Aquatic plants such as water Hyacinth to produce bioenergy and fertiliser products ", Prof Ross added.

Prof. Aniruddha B. Pandit, Vice Chancellor, ICT Mumbai commented on this MoU, "This MoU will strengthen the ties between the UK and India, contributing to the global academic community's efforts to address pressing issues such as sustainability, the provision of clean and affordable energy, waste management, health, and technological advancements. As both institutions work together on joint research projects and academic initiatives, they will set a benchmark for international cooperation in higher education, inspiring other universities to pursue similar partnerships."

The University of Leeds and the Institute of Chemical Technology, Mumbai, are committed to leveraging their combined strengths to address global challenges and contribute to the advancement of knowledge in areas such as sustainable energy and waste management. This MoU represents a promising beginning for a long-term and impactful partnership.

Source : Press Release

Mondi brings Water-Soluble Cement Bags to Balearics

- Mondi and Cemex have collaborated to bring SolmixBag, a water-soluble paper bag, to the Spanish islands.
- The 100% kraft paper bags are made from renewable materials and protect the contents long-term before dissolving during the mixing process.
- With SolmixBag, the two global companies have introduced a packaging alternative for dry building products to the Balearics, eliminating dust and packaging waste on building sites.

25 June 2024 – Mondi, a global leader in sustainable packaging and paper, is announcing the Spanish launch of its ground-breaking SolmixBag in collaboration with Cemex, by bringing it to the building industry on the Balearic Islands of Ibiza, Mallorca and Menorca.

Cemex, a global buildings materials company, and Mondi established a valuable partnership during the past 12 years, kicking off the recent collaboration about SolmixBag in 2021. Cemex was looking for a sustainable cement bag to meet legal requirements on the Spanish islands regarding landfilling and incineration of waste, as well as drive its own sustainability goals. Jointly, the two global companies found a fit-for-purpose solution, achieving zero waste with the introduction of SolmixBag, complying with the extended producer responsibility (EPR) for the packaging.

SolmixBag is a one-ply paper bag made from 100% kraft paper which stores and transports dry cement, screed and coarse pre-mixes: its ingenious design means that it disintegrates during the mixing process, eliminating dust and waste on the building site. Strong and durable, the bag is resistant to punctures and dissolves when it gets in contact with water in the cement mixer, where the fibre packaging integrates with the cement.

Offering a truly convenient and sustainable solution for customers, SolmixBag runs on existing filling machines, providing the same strength and shelf-life as conventional paper bags in a range of sizes - and it is easy to carry and store, with great printing capabilities for on-shelf standout.

Fabio Barbieri, Sales Director Paper Bags, Mondi says: "This is an exciting step in SolmixBag's journey, delivering an easy and convenient solution to use on construction sites. The product launch brings to life our MAP2030 goals by reducing waste so effectively, and also illustrates our collaborative approach. Working with a well-known and trusted supplier further endorses our product standards from a partner with recognised, genuine additional industry expertise."

Nadal Mateu Piña, Commercial Manager for the Balearic Islands at Cemex says: "Mondi has provided the perfect product for our needs: we are now packaging the most sustainable cement in our product portfolio, CEM IV/B –(P) 32,5 SR- ECO+SR, in Mondi's SolmixBag. Strict legal requirements on the Balearic Islands on landfilling and incineration of waste and EPR have initiated this move, and we aim to use this as best practice example to proactively roll out in different regions and countries. The launch not only delivers for the local industry, it also complies with our own sustainability roadmap 'Future in Action.'"

Source : Press Release Finder

India's Thrust Towards Green Hydrogen and Chemical Industry Growth

The diversified Indian chemical industry has about 80,000 chemical products and generates employment for over five million people. Investors and businesses can easily identify potential growth areas in the Indian chemical sector, as they are incorporating new technologies and bringing in new developments and schemes. Therefore, close observation of the chemical industry has always helped businesses and society in their growth and helped in assessing the nation's position in the global market. In this article, we have discussed some of the recent developments and expansions in various aspects. If you are inclined towards learning the development updates of the chemical sector, then please con-

tinue reading the article. Let's begin.

Driving factors of the chemical industry:

The demand of end-user industries such as the food processing sector, personal care, and home care are driving the growth of the Indian specialty chemical market. Specifically, the exports of organic and inorganic chemicals have risen significantly by 16.75% and reached USD 2.50 billion in April 2024.

The demand for chemicals and petrochemicals is rapidly increasing due to their intensive usage in manufacturing, construction and other specific industries. Additionally, the developing infrastructure and rapid urbanization have led to higher demand for construction, housing and consumer goods, all of which require chemicals and petrochemicals for production and development.

Specifically in the automotive sector, the growth has stimulated the demand for the production of conventional and electric vehicles, which significantly contributed to the demand for petrochemicals used in manufacturing components, batteries and other materials.

Therefore according to IBEF (India Brand Equity Foundation), India is the 6th largest producer of chemicals across the globe and 3rd in Asia, thereby the nation is contributing 7% to the nation's GDP.

Additionally, due to the factors discussed above the demand for chemicals and petrochemicals across the nation is anticipated to triple and potentially hit USD 1 trillion by 2040.

Implications of growing demand:

Since the demand across several sectors is rising, India's specialty chemicals firms are enhancing their production capacities and implementing advanced technologies.

Currently, global companies are seeking to derisk their supply chains that are dependent on China, therefore the chemical sector in India has better growth opportunities. On the other hand, the Dahej PCPIR project in Bharuch has attracted an investment of INR 1 Lakh crore which is approximately USD 12 billion, which is expected to generate 32,000 jobs in India.

Indian market players expanding their capacities:

Due to the rapidly rising energy demand, India is focusing on hydrogen as an alternative fuel source to reduce carbon emissions while meeting the energy requirements. Considering the situation, the Union government has approved INR19,744 crore for the National Green Hydrogen mission that aims to transform India into a 'Global hub' for using, producing and exporting green hydrogen.

The ultimate goal of the NationalGreen Hydrogen Mission Program is to incentivize the commercial production of green hydrogen and make the country a net exporter of fuel. The mission has a greater impact on demand creation, production, utilization and export of green hydrogen as a fuel for manufacturing sectors. Therefore the program focuses on developing multiple strategies regarding the production of green hydrogen, which includes funding for domestic manufacturing of electrolyzers and produce green hydrogen.

By 2030, the company is aiming to raise the production capacity to a minimum of 5 MMT per year and expand its renewable energy capacity to approximately 125 GW in India.

GAIL opening up a plant in MP

GAIL is a public sector gas distribution business in India and is considered a pioneer in gas distribution and has established its presence in about 67 geographical areas across India. Gail has recently commenced the operations of their 10MW Green hydrogen facility in Madhya Pradesh.

Shri Pankaj Jain, the Secretary of the Ministry of Petroleum and Natural Gas graced the inauguration ceremony on 24, May 2024. The senior official in Gail, the chairman and managing director underscored the remarkable capacity of the plant which is its capacity to produce 4.3 tonnes per day of hydrogen. Also, the hydrogen is produced at a purity level of 99.999 percent.

The initial plan with regards to the produced hydrogen is to blend them into natural gas and cater to the internal requirements at Vijaypur, then the prospects are expected to sell the high-pressure hydrogen to nearby consumers and explore its usage. The production processes utilize electricity from renewable resources such as solar energy and the plant is expected to produce about 4.3 tonnes of green hydrogen every day.

Considering the regulations related to blending hydrogen gas with natural gas, only 5 % of hydrogen is blended with natural gas. Therefore the company is conducting joint studies with Engineers India Limited and IIT Kanpur to get guidance regarding the increase in the blending ratio of hydrogen.

INR 200 crore fund – government approval for setting up green hydrogen valley projects:

The Department of Science and Tech-

nology has allocated about INR 50 crores each for the upcoming Hydrogen Valley projects.

The Kerala Hydrogen Valley Innovation cluster is set up to produce hydrogen via biomass and electrolyzer pathways, that target the mobility sector especially marine and road transport.

The Bhubaneswar HVIC will produce hydrogen via the electrolyzer method that focuses on steel and mobility sectors.

The Pune HVIC plant will employ bioethanol and electrolyser methods for hydrogen production and they are focusing on fine chemicals and mobility industries.

The Jodhpur HVIC targets applications that include hydrogen internal combustion engines and blending in city-gas production.

Asian paints investment of INR 1305 crore to ramp up production capacity of Mysuru plant:

The existing capacity of the production plant at Mysuru is 300,000 KL per annum and it has been increased to 600,000 KL per annum. This increase in production capacity is made to meet the medium-term capacity requirements of the company. To increase the production capacity, the company has made an investment of INR 1305 crores and the same amount has been funded through internal accruals.

Other than these developments, several technological advancements in the industry include Mitsui Chemicals launching their project that uses a natural language processing model called Simple Contrastive Learning of Sentence Embeddings that creates vector representations to grasp the meaning of documents and other texts. The model caters to the requirements and applications of Mitsui chemicals products.

Conclusion:

Overall these developments, and expansions in the chemical industry signal robust growth and a strategic shift toward sustainability. The investments in new plants and green hydrogen projects are expected to spur further innovation and research in the chemical sector and are expected to have wide-range benefits across varied industries.

Source : Vinodini Harsh

The Symbiotic Relationship Semiconductors and the Chemical Sector

Introduction:

Semiconductors are everywhere, inside your home inside your refrigerators, washing machines, microwave ovens, laptops, computers, televisions, and smartphones. When you leave your house, you find them inside Electric vehicles, GPS tracking, automated control systems, fingerprint scanners and whatnot. Semiconductors are the core of the majority of consumer electronics and they are involved in every sector you see and utilize. Little do we know about the exact chemicals used in the semiconductor industry, as the ingredients are kept as trade secrets. In this article, we have explored the ways (including the ones that are not so popular), the semiconductor industry benefits the chemical sector. If you want to know how these two sectors are linked, dive into the article to explore how.

The intricate link between the semiconductor industry and the chemical sector:

The production and advancement of the semiconductor industry are dependent on the specialized chemicals and the processes developed in the chemical industry.

The developing semiconductor industry:

With the growing technologies and demand for application-specific performances, semiconductor companies are pushing their boundaries of traditional silicon-based microprocessor technologies and exploring and coming up with chips based on compound semiconductor materials such as silicon carbide (SiC) and Gallium nitride (GaN). They bring in these advancements to increase the power efficiency, form factor and application-specific performance.

For instance, SiC semiconductors are reshaping the semiconductor industry due to their unique characteristics.

The SiC semiconductors are deployed in applications that involve higher voltages and temperature, or high-power applications. This has increased the efficiency in power conversion, reduced energy loss, faster switching speeds, and enhanced reliability. Therefore they are immensely utilized in telecommunications, industrial power supplies, aerospace and consumer electronics.

Unlike traditional semiconductors, they offer greater efficiency and performance thus driving further innovation and adoption across various industries. Due to their efficiency, ability to be used in higher temperature environments and performance, they are intensively used in industrial power supplies, electric vehicles, and renewable energy systems.

Semiconductors impacting the growth of the chemical industry:

These factors are impacting the overall demand for a wide range of chemicals such as Silicon, Carbon and etching agents such as Hydrogen Fluoride, chlorine, sulphur Hexafluoride, and doping agents such as Nitrogen, aluminum, boron and cleaning and polishing agents such as hydrofluoric acid to remove oxides and other contaminants from SiC surfaces, Potassium hydroxide to smoothen the SiC wafers and Ammonium Hydroxide which is mixed with the RCA cleaning solution to remove organic contaminants and particles.

Therefore the manufacturing of semiconductors has increased the demand for high-purity chemicals and advancements related to the industry. For instance, manufacturing semiconductors requires specifically designed materials and chemicals, thus the chemical companies are propelled to invest in new facilities and technologies to cater to the demand, this has spurred economic growth and technological development.

Case studies:

JSR group's outstanding technological capabilities in building smart societies:

JSR group of companies has understood the customer needs in terms of the semiconductor materials for the development of smart societies. The idea of making the semiconductor circuit wiring smaller is perceived to improve functionality, therefore JSR group has worked towards it to make the semiconductors work efficiently and gain better functionality.

At present, they have used extreme ultraviolet technology to pattern the finest lines on semiconductor chips. Their investment in production facilities that are capable of manufacturing EUV photoresists at scale, and adhering to stringent quality control measures have also ensured consistency and reliability in every batch produced has led to significant growth in the semiconductor industry.

JSR group of companies has brought in EUV photoresists which utilize advanced polymer structures that help in improving the sensitivity and resolution. The enhanced contrast due to the advanced chemical formulations has ensured the sharper patterns in these semiconductors.

Furthermore, the photoresists are designed to withstand the harsh conditions of the EUV lithography process, which includes high-energy exposure and subsequent etching steps.
Above all these photoresists can produce fine features that are critical for the miniaturization of semiconductor devices.

Linde India Limited drawing its decade of experience in manufacturing semiconductors with value-added capabilities:

Linde India Limited has been involved series of research to produce high-purity gases required for the manufacturing of semiconductors. They have developed a Genius system that uses advanced purification technologies to produce nitrogen with higher purity levels, specifically that meets the stringent requirements of semiconductor manufacturing. This "Genuis system" can be scaled to meet specific requirements of semiconductor manufacturing thereby providing flexibility in production planning.

Furthermore, it enables onsite generation that eliminates the need for transporting and storing the produced bulk nitrogen thereby improving overall productivity. In addition to that the system is considered as energy efficient and contributes at a greater level towards the sustainability goals of semiconductor manufacturers.

Understandably, every advancement in the semiconductor industry is impacting the growth of itself and the chemical industry.

To be continued…

With materials like Silicon Carbide (SiC) and Gallium nitride (GaN) gaining traction due to their superior properties compared to conventional silicon, the demand for the specialized chemicals keeps rising, since their production and processing are completely reliant on these specialized chemicals. Furthermore, the rapid growth of electric vehicles, AI chips and machine learning advantages have impacted the growth semiconductor industry which is leading to the development of the chemical industry. Overall, the relationship between the semiconductor industry and the chemical industry is poised to strengthen and evolve significantly in the upcoming years.

Source : Vinodini Harish

Driving Sustainability The Impact of Wind Turbines on the Chemical Industry

Introduction:

Imagine a day without electricity – no lights, no computers, no appliances, a halt to nearly all the modern conveniences. We all are dependent on reliable energy sources and the electricity demand continues to rise. This has shed light on sustainable and renewable energy solutions. European Commission stated that the electricity demand will double by 2050 and half will be derived from wind. In that case, how does the surging demand of wind turbine industries impact the chemical industry? How well both industries are thriving in the current times, we have explored all of it in this article. Let's begin.

Advanced turbines to maximize the effectiveness:

China holds the pride of possessing the largest wind power capacity, making up about 37% of the entire global installed capacity. This includes the increased wind turbine sizes from 0.85MW to 2MW. Wind energy is becoming a massive global energy source, which was evident by the breaking record of 117 gigawatts installation in 2023, which is a 50% increase from the previous year.

Global Turbine market players are thriving towards performance optimization and material innovation to build bigger and stronger turbines. Therefore, they are involved in developing innovative resins or high-performance resins for designs with remarkable qualities such as increased sturdiness, strength and lightweight.

Additionally, the rigorous operating environment requires resins with superior strength, fatigue resistance and improved weather tolerance, therefore the market players choose the cutting -edge resins for manufacturing. However, efforts continue to develop lightweight epoxy composites that maximize the effectiveness and performance of the blades.

Other advanced production techniques such as robotic systems for automated layup, quality control techniques, and digital monitoring have reduced human error, increased consistency and optimized production workflows. Since the production of wind turbines requires a lot of manual labour in the conventional production processes, this automation and modern techniques have advanced the production processes and possibly lower production costs.

Danish wind turbine manufacturer introduces effective recycling of epoxy-based turbine blades!

Danish wind turbine manufacturer Vestas, a Danish company that is a global leader in sustainable energy solutions, they are on a mission to transform the global energy system working on designing, installing, and maintaining wind energy projects across the globe. Now, they have presented a novel method of recycling epoxy-based turbine blades without affecting the design or the composition of the material itself.

The good news is that the chemical process can be applied to the blades that are currently in operation thereby eliminating the issue of landfill disposal of epoxy-blades when they are decommissioned. Vestas' solution deploys a chemical process that breaks down the epoxy resin into virgin-grade materials using commoditized chemicals in a normal environment and pressure without utilizing much energy for recycling.

Although the activities are carried out to foster the development towards sustainability such as replacing the resins with materials that are easier to break, this is considered a great move towards sustainability as it was never easy to recycle the epoxy-wind turbines as it was made of this resilient substance which is impossible to breakdown into reusable components.

Epoxy resin wind turbines and other advanced formulations:

The advent of cutting-edge resin formulations has matched the stringent performance requirements for wind turbines. This added to the guarantee of wind turbine blades dependability, efficiency, high strength, and superior fatigue resistance. Also, the formulations can endure severe weather conditions, UV exposure and temperature swings.

Currently, there is an emphasis on bio-based epoxy substitutes with a lower carbon impact. The conventional epoxide resins used in the wind power industries are largely derived from petroleum, thereby they are not considered sustainable solutions. Therefore, the market players are using renewable resources such as plant oils, agricultural byproducts, and other materials that may lessen the environmental effect of resin production. Additionally, they are also choosing manufacturing methods such as closed-loop systems that reduce waste and emissions.

Growth opportunities in the wind turbine industry:

The current and projected efforts to install wind and solar energy systems are not adequate to achieve net zero carbon emissions by 2030. It is expected to fall short by 29%. Therefore to achieve the environmental goals renewable energy companies are expected to accelerate

the deployment of these renewable energy sources.

Manufacturers are working towards "sustainability in manufacturing the wind turbines, and blades of the turbines". The two key strategies are curbing waste and building new ones with more sustainable materials.

Wind turbines impacting the growth of the chemical industry:

To leverage the efficiency and longevity of the wind turbines, the manufacturers utilized specialized chemicals and technological developments. Wind turbines require advanced materials such as high-strength composites, epoxy, specialty alloys, corrosion-resistant coatings and other materials, these are driving innovation and growth in chemical manufacturing.

Likewise, the wind turbine blades are made of fibreglass-reinforced resins, epoxy resins or carbon fibre composites. This attribute has increased the demand for resins, polymers and additives.

For instance, offshore facilities are severely exposed to hostile marine conditions hence corrosion imposes a serious threat to the structural integrity of the wind turbines. It also affects the operational efficiency. Therefore in such cases, the role of anti-corrosion coatings plays a significant role. Understandably the momentum for the chemicals involved in these coatings creates a significant impact on the chemical industry.

Likewise, the demand for sealants and adhesives for the sealing of wind turbine parts is also increasing as these adhesives and sealants are specifically made for peculiar bonding. To maximize the dependability and efficiency, the manufacturers are investing in R&D to create high-performance adhesive technologies to withstand harsh operating environments.

With the presence of favourable growth opportunities and rising investments in the development of wind turbines for the adoption of renewable energy resources, the demand for the chemicals used for the manufacturing and operation of these wind turbines is also rising.

Governmental programs towards cutting down on carbon emissions are also favouring the growth of wind turbines and thereby creating a great impact on the growth of the chemical industry.

Case studies:

SWANCOR is a specialized resin manufacturer that focuses on advanced materials for wind turbines, their contributions towards the wind energy sector are phenomenal. They are known for developing high-performance epoxy and vinyl ester resins used in the production of wind turbine blades, which offer superior mechanical properties such as durability, and resistance to environmental stressors.

Arkema has developed a thermoplastic resin called Elium® that is recyclable yet more sustainable than other materials available in the market for wind turbine blades. These resins offer excellent mechanical properties as the conventional ones yet they are easier to recycle at the end of the blade's life.

Covestro is a leading global manufacturer of high-tech polymer materials, known for their sustainable practices and their focus on manufacturing advanced materials for varied industries such as automotive, construction, electronics and others. They have launched Baydur® and Desmodur® polyurethane systems that are utilized for the production of lightweight and durable wind turbine blades. They have also obtained DNV certification for these specially developed polyols which confirms their good mechanical properties appropriate for the rotor blades for the wind turbines.

The advanced materials have paved the way for manufacturing lighter and longer blades, and are more flexible for design optimization. Especially, they possess excellent flow properties and exhibit very low viscosity, long pot life and fast curing. Therefore it enables better infusion in the blae composite materials.

Covestro has also developed a specialized machine named Baulé to enable direct infusion of high-performance polyurethane into the turbine blades.

Closing remarks:

The push towards renewable energy is higher and expected to intensify more, therefore the key market players like SWANCOR, Covestro, and Arkema are developing high-performance, sustainable resins to enhance the efficiency, durability and environmental resistance of the wind turbine components. These innovations are expanding the limits of the chemical industry's portfolio and capacities. Additionally the focus on sustainable solutions not only supports the green energy sector, but it also fosters global sustainable goals and long-term growth in the chemical industry.

Source : Vinodini Harish

EVENTS AND CONFERENCES

45TH DYE+CHEM BANGLADESH INTERNATIONAL EXPO

Date: Sept 04-07, 2024
City: Bangabandhu Bangladesh–China Friendship Exhibition Center, Purbachal, Dhaka
Country: Bangladesh
Website: https://bd.cems-dyechem.com/

Description: 1. The DyeChem Bangladesh 2024 is a Comprehensive International Exhibition featuring Worldwide Dyestuffs & Fine & Specialty Chemical Manufacturers, focusing on the entire Textile & Apparel Industry of Bangladesh and South Asia. 2. In 2023, DyeChem attracted industry leaders, textile manufacturers, suppliers, visitors from Bangladesh and around the world, reaffirming Bangladesh's position as an emerging Global Textile Hub. 3. In the fiscal year 2021-2022, Bangladesh exported Apparels worth US $45 billion, maintaining the crown as the second-largest apparel exporter in the world and a highly potential buyer of Textiles and Apparel Trims, Accessories. 4. DyeChem Bangladesh is the Oldest, Biggest & Only International Exhibition of Bangladesh serving the Textile & Apparel Industry of Bangladesh for the past 23 years. 5. The DyeChem 2023 saw diverse global participation and visitors from across South Asia and Europe, who used the event as a Triangle-Trade platform where they could connect with Textile, Accessories Manufacturers in the Show as well as Garment factories in Bangladesh. 6. DyeChem has provided a unique platform for the Global Textile Industry for networking, discovering, collaborations, business development and highlighted the immense potential of Bangladesh's textile and apparel dyestuff industry on a global scale. 7. Participate in DyeChem Bangladesh 2024. Meet and connect with potential buyers from Bangladesh and beyond through the Expo.

ASIA PACIFIC COATINGS SHOW

Date: Sept 11-13, 2024
City: Balai Sidang Jakarta Convention Center, Indonesia
Country: Indonesia
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.

EXPO PAINT & COATING - DHAKA

Date: Sept 19-21, 2024
City: International Convention City Bashundhara, Dhaka
Country: Bangladesh
Website: https://expopaintcoating.in/pdf/EPC_2024_Brochure_Dhaka.pdf

Description: Expo Paint & Coatings - 2024 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.

EVENTS AND CONFERENCES

Expo Paint & Coatings - 2024 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.

INACOATING 2024

Date: July 30 - Aug 1, 2024
City: JIExpo Kemayoran, Jakarta
Country: Indonesia
Website: https://www.inacoating-exhibition.net/

Description: The paint and coating industry is one of few business sectors in Indonesia with strong domestic players with local brands dominating the paint and coating market. The country's key market growth drivers include, the rapid rates of urbanization, the rising population, the augmenting construction sector, and the surging middle class. The base year considered for the market study is 2020, and the forecast years are from 2021 to 2025.

INACOATING brings an essential focus to finished products, raw material suppliers and equipment manufacturers. marine and protective coatings technologies and offers attendees an opportunity to discover new ideas, find answers to technical challenges and source information for immediate use in their working environment. The 12th edition of INACOATING will take place from 30 July – 01 August 2024 at Jakarta International Expo (JIEXPO) Kemayoran, Jakarta – Indonesia. As the influential paint and coating show in Indonesia, INACOATING 2024 will be held together with INAMARINE 2024 (for Marine & Shipbuilding coating) and Chemical Indonesia 2024.

INDIA CHEM 2024

Date: Oct 17 - 19, 2024
City: Bombay Exhibition Centre, Goregaon, Mumbai
Country: India
Website: https://indiachem.ficci.in/

Description: Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Government of India, jointly with FICCI is organising the 13th Edition of "India Chem 2024" from 17th - 19th October 2024 at Bombay Exhibition Centre, Mumbai, India. India Chem, the flagship event of the Department, is one of the largest composite events of the industry in the Asia-Pacific region and comprises of an International Conference and Exhibition. India Chem 2024 will showcase tremendous potential and supportive government policy for sustainable growth in the sector and will be a single platform for investors, both domestic and international and other stakeholders to interact and forge alliances, thereby providing immense potential for trade and investment, in a mutually beneficial way. The concurrent sessions as part of conference includes Global CEOs Round Table as well as conclaves on different industry segments (e.g., Chemicals, Petrochemical, Agrochemical Industry, Process and machinery) and regional exchanges between India and the counties.

Date: Aug 27 - 29, 2024
City: COEX, Seoul, Korea
Country: Korea
Website: https://www.cphi.com/korea/en/home.html

Description: CPHI Korea is a dynamic meeting place where pharmaceutical suppliers, purchasers and decision makers get together for three days of uninterrupted business. Exhibiting companies showcase products from across the entire pharma supply chain: from ingredients and contract services, through to machinery and biopharmaceuticals.

Kodiak acquires Southern Adhesives and Coatings, targeting the paper and packaging industries

CINCINNATI, July 9, 2024 / PRNewswire/ -- Kodiak, a leading supplier of specialty chemicals for the steel, automotive, energy, and aerospace industries, has further strengthened its position in the market through their acquisition of Southern Adhesives and Coatings. This is Kodiak's second acquisition in 2024, and it strategically enables them to target the paper and packaging industries. Earlier this year, Kodiak acquired Aztech Lubricants and technologies in Oklahoma, where they manufacture specialty powders and process fluids for the wire drawing industry. Kodiak continues to grow in specialty niche markets, offering customers the opportunity to streamline purchasing and consolidate vendors.

Southern Adhesives and Coatings

Southern Adhesives and Coatings, based in Madeira, OH, is a boutique supplier to the paper and packaging industries. Known for its advanced adhesive and coating product portfolio, Southern Adhesives and Coatings provides specialty products for applications such as laminating paper and cardboard, gluing labels, and lining food packages – including beverage cans. The adhesives used in these industries are divided into three categories – hot melt, waterborne, and solvent-based systems. With a growing emphasis on sustainability and improved environmental benefits desired for these technologies, Southern Adhesives and Coatings have become pioneers in the development of these enhanced technologies. Combining their technology with the Kodiak's manufacturing assets, research and development organization, and dedicated sales, the team will accelerate growth opportunities in the pipeline.

Strategic Growth and Expansion

Integrating Southern Adhesives and Coatings demonstrates Kodiak's commitment to supplying comprehensive solutions that meet diverse industrial needs.

With their recent acquisition of Cincinnati based Coolant Control Inc. and Vulcan Oil in the first quarter '23, and their acquisitions of Aztech Lubricants and Southern Adhesives and Coatings in '24, Kodiak's consistent growth stands out as a story of success. Today, their diverse portfolio is one of the most expansive in the global chemical industry. Their most recent acquisition will enable them to deliver products utilized for the paper and packaging industries, as well as for the automotive, aerospace, construction, metals and energy sectors. The addition of adhesives and coatings to their already expansive portfolio demonstrates their success and commitment to satisfying customer needs.

"By acquiring Southern Adhesives and Coatings we continue to execute our growth strategy – expanding our product portfolio, while consolidating manufacturing in our state-of-the-art facilities located in Cincinnati, Ohio and Wayne, Oklahoma." States Kevin Dickey, CEO of Kodiak. "Our customers around the globe have demonstrated their receptiveness to our capabilities – helping them streamline procurement through consolidation of suppliers who can solve their ever-changing needs."

Innovation and Customer-Centric Approach

Kodiak attributes its continued success to its strong technical expertise, robust research and development capabilities, and commitment to customizing solutions for specific customer applications. The company's rapid growth over the past few years underscores the market's demand for a supplier that combines technical excellence with a customer-centric approach. With quick turnaround times and efficient distribution, Kodiak continues to expand into new markets, delivering sustainable chemical solutions for every customer need.

Source : PRNewswire

Ateios Systems Unveils RaiCore™ Electrode to Build the World's First PFA-Free, High-Performance LCO Battery

SILICON VALLEY, Calif., July 9, 2024 /PRNewswire/ -- Ateios Systems, a manufacturer of battery components, today announced the release of RaiCore™ High-Voltage Lithium Cobalt Oxide (HV LCO) electrodes, enabling the world's first perfluoroalkoxy-free (PFA), rechargeable LCO battery.

Functional battery prototypes using RaiCore™ provide the following:

- 15-20% More Energy Density over Standard LCO
- >80% Capacity Retention after 1000 cycles at 1C & 100% Depth of Discharge
- Free from PFAs or forever chemicals
- Competitive Pricing with Cobalt-based Electrodes

The groundbreaking innovation lies in Ateios' RaiCure™ technology, a chemistry-agnostic manufacturing process that utilizes energy-curable, PFA-free polymers to replace traditional thermal-curable polymers. The platform process produces electrodes with high-energy density, high quality, and lower manufacturing costs to assemble batteries with enhanced performance, cost reduction, and compliance with environmental regulations. Nearly one-third of the lithium-ion battery market today is used on products such as smartphones, wearables, power tools, drones, and many more. "RaiCore offers the battery industry and its allied sectors a transformative, scalable solution addressing critical challenges in performance, supply chain, and regulatory compliance," said Dr. Rajan Kumar, CEO and Founder of Ateios Systems.

Ateios is partnering with versatile companies, such as Softmatter, a softgoods technology company, to integrate RaiCore into various form factors including wristables and AR/VR devices. "Power has long been the main hindrance to our efforts to create products that optimize the user experience. We see RaiCore-enabled batteries as the first step in creating a portfolio of next-to-skin solutions that enable our consumers to experience conformal power systems," said Ulysses Wong, CEO of Softmatter.

Ateios Systems is offering sample packs to device developers for performance evaluation and integration into scalable solutions, collaborating with partners such as Softmatter. Additionally, Ateios Systems is conducting multiple pilots with battery assemblers worldwide to integrate RaiCore electrodes into their existing battery product lines and form factors.

Source : PRNewswire

"XANTAR K Series" High-performance Polycarbonate Resin Adopted in the Nothing Phone (2a), a Smartphone from the U.K.

"XANTAR™ K series," high-performance polycarbonate resin from the Mitsubishi Chemical Group*1 has been adopted for the casing (back panel) of the "Nothing Phone (2a)," a smartphone from NOTHING, a digital products company based in London, UK.

XANTAR™ is a high-performance polycarbonate resin with excellent transparency, impact resistance, flame retardancy, heat resistance, and electrical properties, and has been used in a wide range of applications for many years. "XANTAR™ K series" is a special polycarbonate resin that was developed by the MCG Group using polymerization and compounding technologies that the Group cultivated over many years. Compared to general polycarbonate resins, "XANTAR™ K series" has higher surface hardness, and the product is increasingly being adopted for smartphone casings and automobile interior parts, etc., as a material with improved scratch resistance, which is a weakness of general polycarbonate resins. The MCG Group also offers a broad lineup of products to meet customer needs, including those with high flame resistance, low dielectric dissipation factor, low birefringence, selective wavelength absorption, water repellency, and recycling.

NOTHING sells smartphones with advanced technology and innovative designs, and the "Nothing Phone (2a)" has the unique feature of a transparent casing and a luminous back. This is the first time that XANTAR™ has been adopted in NOTHING's smartphones, and was selected because of the highly acclaimed features of transparency, surface hardness, and workability of the XANTAR™ K series.

As a specialty materials group dedicated to offering innovative solutions, the MCG Group is committed to delivering high-performance products like XANTAR™.

Source : Mitsubishi Chemical Group

Booking price as on 11/06/2024		
Current Exchange rate-$1= 83.50 INR		
Chemicals	**Current Prices**	**Location**
Acetic Acid	410	CFR India
Acrylonitrile	1300	CFR India
Benzene	1055	CFR India
Phenol	1150	CFR India
Acetone	1210	CFR India
Butyl Acrylate Monomer	2300	CFR India
C9	990	CFR India
LAB	1650	CFR India
IPA	1210	CFR India
Methanol	290	CFR India
VAM	860	CFR South Asia
Toluene	1055	CFR India
Styrene Monomer	1210	CFR India
N-Butanol	1200	CFR India
Octanol	1490	CFR India
Isobutanol	1200	CFR India
MEG	615	CFR India
Mix Xylene-Solvent Grade	1030	CFR India
Gycerine	850	CIF India
DMF	850	CFR India
Acrylic Acid	1300	CIF India
Formic Acid	650	CFR India
Adipic Acid	1450	CIF India
Ethylene	940	CFR India
PTA	880	CFR India
Propylene	815	CFR India
THF	1600	CIF India
Note- All above booking prices have been directly collected from intenders and importers and verified.		

Mumbai Market Price as on 11/07/2024		
Name of Chemical	**Current Price**	**Location**
Acetic Acid-Imported Repack	41	Mumbai
Acetic Acid-Domestic Intact	51.5	Mumbai
Acetic Acid-Domestic Repack	41	Mumbai
Acetone-Imported Repack	114	Mumbai
Acetone-Domestic Intact	126	Mumbai
Acetone-Domestic Repack	114	Mumbai

Acetonitrile-Imported Intact	155	Mumbai
Acetonitrile-Domestic Intact	175	Mumbai
Acetonitrile-Domestic Repack	145	Mumbai
Acrylonitrile-Imported Intact	155	Mumbai
Acrylonitrile-Imported Repack	140	Mumbai
Aniline-Imported Intact	178	Mumbai
Aniline-Domestic Intact	180	Mumbai
Benzene-Domestic Repack	96	Mumbai
Cyclohexane-Imported Intact	135	Mumbai
Cyclohexane-Domestic Intact	126	Mumbai
Cyclohexane-Domestic Repack	116	Mumbai
Cyclohexanone-Imported Intact	152	Mumbai
Cyclohexanone-Imported Repack	136	Mumbai
Cyclohexanone-Domestic Intact	150	Mumbai
Cyclohexanone-Domestic Repack	137	Mumbai
C9 Solvent (99.99% purity)-Imported Repack	105	Mumbai
C9 Solvent (Arham Petrochem)-Imported Repack	104.75	Mumbai
Dibutyl Phthalate-Domestic Intact	137	Mumbai
Dioctyl Phthalate-Domestic Intact	145	Mumbai
Ethyl Acetate-Domestic Intact	77	Mumbai
Ethyl Acetate-Domestic Repack	75	Mumbai
Formaldehyde(37%)-Domestic Repack	19	Mumbai
Methanol-Imported Repack	33.5	Mumbai
Methyl Ethyl Ketone-Imported Intact	128	Mumbai
Methyl Ethyl Ketone-Imported Repack	115	Mumbai
Methyl Isobutyl Ketone-Imported Intact	167	Mumbai
Methyl Isobutyl Ketone-Imported Repack	157	Mumbai
Methyl Methacrylate-Imported Intact	240	Mumbai
Mixed Xylene-Imported Repack	95	Mumbai
Mixed Xylene-Domestic Repack	95	Mumbai
Monoethylene Glycol-Imported Repack	60	Mumbai
Monoethylene Glycol-Domestic Intact	66	Mumbai
Monoethylene Glycol-Domestic Repack	60	Mumbai
Iso propyl Alcohol-Imported Repack	122	Mumbai
Iso propyl Alcohol-Domestic Intact	138	Mumbai
Iso propyl Alcohol-Domestic Repack	123	Mumbai
nButanol-Imported Repack	111	Mumbai
nButanol-Domestic Intact	118	Mumbai
nButanol-Domestic Repack	111	Mumbai
Ortho Xylene-Imported Repack	122	Mumbai
Phenol-Imported Repack	114	Mumbai

Phenol-Domestic Intact	118	Mumbai
Phenol-Domestic Repack	114	Mumbai
Phthalic Anhydride-Imported Intact	117	Mumbai
Phthalic Anhydride-Domestic Intact	117	Mumbai
Styrene Monomer-Imported Repack	109	Mumbai
Toluene-Imported Repack	95	Mumbai
Toluene-Domestic Repack	95	Mumbai
Vinyl Acetate Monomer-Imported Repack	80	Mumbai
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 12/07/2024		
Products	**Regions**	**Current prices**
Feedstock Prices $/unit		
Crude Oil ($/barrel)	WTI CRUDE	82.9
	BRENT CRUDE	85.55
	MARS US	76.4
	OPEC BASKET	85.91
Natural Gas	New York	2.27
Gasoline	RBOB	2.51
Heating Oil	US	2.52
Ethanol	US	1.87
Naphtha	FOB Singapore	698
	European	690
	CFR Far East Asia	702
Propane	New York	0.82
Aromatics prices $/MT		
Benzene	FOB Korea	1020
	CFR Japan	1040
Styrene	CFR Japan	1150
	CFR South East Asia	1180
	CFR China	1150
	FOB Korea	1140
Toluene	CFR China	920
	CFR South East Asia	960
	FOB Korea	890
	CFR Japan	920
Iso-Mix Xylene	CFR South East Asia	930
	CFR Taiwan	930
	FOB Korea	910

MEG	CFR China	560
	CFR South East Asia	570
Methanol	CFR China	295
	CFR Korea	357
	CFR South East Asia	356
	CFR Taiwan	347
Solvent-MX	CFR South East Asia	970
	FOB Korea	900
	CFR China	920
Ortho Xylene	CFR South East Asia	1135
	FOB Korea	1075
	CFR China	1085
Para Xylene	CFR South East Asia	1030
	FOB Korea	1000
	CFR Taiwan	1020
Propylene	FOB Japan	825
	FOB Korea	845
	CFR China	875
	CFR South East Asia	845
Propylene Glycol	FOB Korea	835
	CFR China	870
Ethylene	CFR North East Asia	850
	CFR South East Asia	925
	FOB Japan	810
	FOB Korea	815
EDC	CFR Far East Asia	305
	CFR South East Asia	335
Butadiene	CFR China	1555
	CFR South East Asia	1465
	FOB Korea	1535
Benzene	FOB Rotterdam	1060
Methanol	FOB Rotterdam	320
Ortho Xylene	FOB Rotterdam	1285
Para Xylene	FOB Rotterdam	1125
Solvent-MX	FOB Rotterdam	1010
Styrene	FOB Rotterdam	1255
Toluene	FOB Rotterdam	1000
Benzene C/G	FOB US Gulf	390
Toluene C/G	FOB US Gulf	329
Styrene C/LB	FOB US Gulf	52.1
Para Xylene $/MT	FOB US Gulf	1085

Mix Xylene C/G	FOB US Gulf	329
Methanol C/G	FOB US Gulf	105
Intermediates prices $/MT		
Acrylonitrile	CFR Far East Asia	1265
	CFR South East Asia	1265
	CFR South Asia	1335
VCM	CFR Far East Asia	675
	CFR South East Asia	730
MTBE	FOB Singapore	831
	FOB US Gulf	998
Phenol	CFR China	944
	CFR South East Asia	1030
	FOB US Gulf	1095
	FOB Rotterdam	1252
Acetone	CFR China	930
	CFR South East Asia	1045
	CFR Far East Asia	920
	FOB US Gulf	1382
	FOB Rotterdam	1188
Caprolactum	CFR Far East Asia	1700
	CFR South East Asia	1720
Caustic Soda	FOB North East Asia	380
	CFR South East Asia	485
Ethyl Acetate	FOB US Gulf	1532
	FOB Rotterdam	1262
	FD North West Europe(Euro/ mt)	1119
Butyl Acetate	FOB US Gulf	1797
	FOB Rotterdam	1512
	FD North West Europe(Euro/ mt)	1499
MEK	FOB Rotterdam	1102
	FD North West Europe(Euro/ mt)	1349
IPA	FOB US Gulf	1372
	FOB Rotterdam	1210
	FD North West Europe(Euro/ mt)	1219
NBA	CFR China	1110
	CFR South East Asia	1105
	CFR Far East Asia	1105

Octanol	CFR China	1320
	CFR South East Asia	1335
	CFR Far East Asia	1275
DOP	CFR China	1365
	CFR South East Asia	1375
	CFR Far East Asia	1365
Phthalic Anhydride	CFR China	1110
	CFR South East Asia	1160
	CFR Far East Asia	1105
PTA	CFR Far East Asia	770
	CFR South East Asia	795
Acetic Acid	CFR Far East Asia	450
	CFR South East Asia	455
	CFR South Asia	412
	FOB China	350
VAM	CFR China	845
	CFR South East Asia	805
	CFR South Asia	845

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.
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.

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.		
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 12/07/2024

USD Exchange Rate: 83.53 INR

Products	Current Prices (INR/kg)	Prices in USD/mt Equivalent to INR/kg	Location
Acetic Acid	36	430.98	Ex-Mumbai
Acetic Acid	33.75	404.05	Ex-Kandla
Acetonitrile-imported intact	155	1855.62	Ex-Bhiwandi
Acetone	104.5	1251.05	Ex-Mumbai
Acrylic Acid	87	1041.54	Ex-Mumbai
Acrylonitrile	108	1292.95	Ex-Kandla
Adipic Acid	129	1544.36	Ex-Bhiwandi
Aniline Oil	160	1915.48	Ex-Kandla
Benzene	91	1089.43	Ex-Vizaz

Butyl Acetate	90	1077.46	Ex-Kandla
Butyl Acrylate Monomer	143	1711.96	Ex-Kandla
Butyl Glycol	125	1496.47	Ex-Kandla
C10	88	1053.51	Ex-Kandla
C9	81	969.71	Ex-Kandla
Carbon Black-regular grade	60	718.30	Ex-Mumbai
Caustic Soda Lye	34.5	413.03	Ex-Dahej
Chloroform	19.5	233.45	Ex-Dahej
Citric Acid-ANHYD	82	981.68	Ex-Bhiwandi
Citric Acid-Mono	70	838.02	Ex-Bhiwandi
Cyclohexane	107.5	1286.96	Ex-Hazira
Cyclohexanone	123	1472.52	Ex-Kandla
DMF Drum	76	909.85	Ex-Bhiwandi
DEG	61.5	736.26	Ex-Hazira
EDC	26.5	317.25	Ex-Kandla
Epoxy Resin	190	2274.63	Ex-Nhava Sheva
Ethyl Acrylate	122	1460.55	Ex-Kandla
Formic Acid	65	778.16	Ex-Bhiwandi
Glycerine	70	838.02	CIF Nhava Sheva
N-Heptane	225	2693.64	Ex-Bhiwandi
Hexane	106	1269.01	Ex-Kandla
Hydrogen Peroxide-50%	30.5	365.14	Ex-Bhiwandi
Isobutanol	98	1173.23	Ex-Kandla
IPA	114.5	1370.76	Ex-Kandla
IPA	118	1412.67	Ex-Mumbai
LAB	136	1628.16	Imported
Maleic Anhydride-Drum	108	1292.95	Ex-Mumbai
MDC	25	299.29	Ex-Dahej
MEG	51.25	613.55	Ex-Mumbai
MEK	100	1197.17	Ex-Kandla
Melamine	98	1173.23	Imported
Methanol	25.25	302.29	Ex-Kandla
Methanol	25.4	304.08	Ex-Mumbai
MIBK	150	1795.76	Ex-Hazira
Mix Xylene-Solvent Grade	85	1017.60	Ex-Kandla
Mix Xylene-Solvent Grade	86	1029.57	Ex-Mumbai
MMA	203	2430.26	Ex-Hazira
N-Butanol	99	1185.20	Ex-Kandla
N-Propanol	104	1245.06	Ex-Kandla
Octanol	115	1376.75	Ex-Kandla
Ortho Cresol	160	1915.48	Ex-Bhilai

Ortho Xylene	113	1352.81	Ex-Kandla
Phenol	99	1185.20	Ex-Kandla
Phenolic Resin	160	1915.48	Ex-Indore
Phthalic Anhydride	123	1472.52	Ex-Mumbai
Propylene Glycol	97	1161.26	Ex-Kandla
Sodium Nitrate (50Kg Bag)	61	730.28	Ex-Make-Lasons
Soda Ash Light	34	407.04	Ex-Bhiwandi
Styrene Monomer	98	1173.23	Ex-Kandla
Styrene Monomer	99	1185.20	Ex-Mumbai
Sulphuric Acid	4	47.89	Ex-Vapi
Tio2 (Anatase Grade)	210	2514.07	Ex-Bhiwandi
Tio2 (Rutile Grade)	245	2933.08	Ex-Bhiwandi
Toluene	85	1017.60	Ex-Kandla
Toluene	86	1029.57	Ex-Mumbai
VAM	68	814.08	Ex-Kandla
VAM	72	861.97	Ex-Hazira

Producer Prices (Rs/kg) of Chemicals as on 12/07/2024

Producers	Current Price (Rs/kg)	Import parity price in USD/ MT	Location	Production capacity
Accord-Ethyl Acetate	64.5	772.18	Ex-Maharashtra	
Arham Petrochem-C9	80.75	966.72	Ex-Kandla	69,000 tonnes / year
Arham Petrochem-C9	81.75	978.69	Ex-Ahmedabad	69,000 tonnes / year
Arham Petrochem-C10	87.5	1047.53	Ex-Kandla	30,000 tonnes / year
Arham Petrochem-C10	87	1041.54	Ex-Ahmedabad	30,000 tonnes / year
Arham Petrochem-C10 (Imported Re-pack)	100.75	1206.15	Ex-Bhiwandi	30,000 tonnes / year
Arham Petrochem-MTO/White Spirit (KL)	59.65	714.11	Ex-Kandla	75000 tonnes / Year
Arham Petrochem-MTO/White Spirit (KL)	60.65	726.09	Ex-Ahmedabad	35,000 tonnes / year
Arham Petrochem-De-Aromatised D40	130	1556.33	Ex-Kandla	75000 tonnes / Year
Arham Petrochem-De-Aromatised D40	131	1568.30	Ex-Ahmedabad	35,000 tonnes / year
Arham Petrochem-De-Aromatised D60	139	1664.07	Ex-Kandla	75000 tonnes / Year

Arham Petrochem-De-Aromatised D60	140	1676.04	Ex-Ahmedabad	35,000 tonnes / year
Andhra Petrochemicals-Iso-Butanol	102.5	1227.10	Ex-Vishakhapat-nam	4000 tonnes/ year
Andhra Petrochemicals-N-Butanol	99.5	1191.19	Ex-Vishakhapat-nam	30,000 tonnes/ year
Andhra Petrochemicals-Octanol	116	1388.72	Ex-Vishakhapat-nam	70,000 tonnes/ year
BASF-Adipic Acid	136	1628.16	Imported	210,000 tonnes/year
BPCL-2-Ethyl Hexanol (B)	115	1376.75	Ex-Kochi	47000 tonnes/ year
BPCL-2-Ethyl Hexanol (P)	125.6	1503.65	Ex-Kochi	
BPCL-2-Ethyl Hexyl Acrylate (B)	153.5	1837.66	Ex-Kochi	10000 tonnes/ year
BPCL-2-Ethyl Hexyl Acrylate (P)	163.5	1957.38	Ex-Kochi	
BPCL-Acrylic Acid (B)	90.5	1083.44	Ex-Kochi	47000 tonnes/ year
BPCL-Acrylic Acid (P)	99.5	1191.19	Ex-Kochi	
BPCL-Benzene	90.9	1088.23	Ex-Mumbai	90,000 tonnes/ year, Mumbai Refinery,
BPCL-Butyl Acrylate (B)	153.5	1837.66	Ex-Kochi	180000 tonnes/ year
BPCL-Butyl Acrylate (B)	136	1628.16	Ex-Kandla	
BPCL-Butyl Acrylate (P)	143.5	1717.95	Ex-Kochi	
BPCL-Hexane (KL)	95.2	1139.71	Ex-Mumbai	35,000 tonnes/ year, Kochi
BPCL-Hexane (MT)	146.31	1751.59	Ex-Mumbai	35,000 tonnes/ year, Kochi
BPCL-Iso-Butanol (B)	103.5	1239.08	Ex-Kochi	7000 tonnes/ year
BPCL-Iso-Butanol (P)	114.5	1370.76	Ex-Kochi	
BPCL-MTO (KL)	97.98	1172.99	Ex-Mumbai	19,000 tonnes/ year
BPCL-N-Butanol (B)	99	1185.20	Ex-Kochi	38000 tonnes/ year
BPCL-N-Butanol (B)	104	1245.06	Ex-Kandla	
BPCL-N-Butanol (P)	110	1316.89	Ex-Kochi	
BPCL-Paraffin Wax	110	1316.89	Ex-Delhi	
BPCL-Sulphur (Molten)	11.8	141.27	Ex-Mumbai	19,000 tonnes/ year
BPCL-Toluene	87.05	1042.14	Ex-Mumbai	16,000 tonnes/ year
Deepak Phenolics-Acetone	104	1245.06	Ex-Dahej Gujarat	80.5
Deepak Phenolics-IPA	114.5	1370.76	Ex-Dahej Gujarat	30,000 tonnes/ year
Deepak Phenolics-Phenol	98	1173.23	Ex-Dahej Gujarat	200,000 tonnes/year

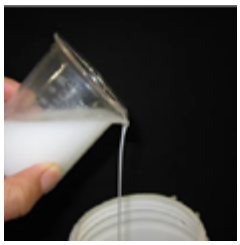
GACL-Caustic Soda Lye	32.5	389.08	Ex-Dahej Gujarat	
GACL-MDC	25.5	305.28	Ex-Bharuch Gujarat	NA
GNFC-Acetic Acid	36	430.98	Ex-Bharuch Gujarat	160,000 tonnes/year
GNFC-Aniline Oil	159	1903.51	Ex-Bharuch Gujarat	
GNFC-Ethyl Acetate	67	802.11	Ex-Bharuch Gujarat	50000 tonnes/year
GNFC-TDI Drum	200	2394.35	Ex-Bharuch Gujarat	67000 tonnes/year
Grasim-MDC	25.5	305.28	Ex-Gujarat	33000 tonnes/year
GSFC-Cyclohexane	104	1245.06	Ex-Gujarat	NA
HOCL-Acetone	108	1292.95	Ex-Kochi	24640 tonnes/year
HOCL-Phenol	116	1388.72	Ex-Kochi	40,000 tonnes/year
IOCL-Banzene	92	1101.40	Ex-Vadodara Gujarat	
IOCL-DEG	62	742.25	Ex-Odisha(Paradip)	
IOCL-DEG	63.5	760.21	Ex-Panipat	
IOCL-LAB	142	1699.99	Ex-Gujarat	120,000 tonnes/year
IOCL-MEG	55.8	668.02	Ex-Odisha(Paradip)	
IOCL-MEG	57.4	687.18	Ex-Panipat	
IOCL-Paraffin Wax	110	1316.89	Ex-Delhi	
Jubilant-Ethyl Acetate	72.5	867.95	Ex-Maharashtra	280 tonnes/day
Laxmi-Ethyl Acetate	65.5	784.15	Ex-Maharashtra	100000 tonnes/annum
Meghmani-Caustic Soda Lye	32	383.10	Ex-Bharuch Gujarat	400000 tonnes/annum
Meghmani-MDC	25.5	305.28	Ex-Ankleshwar Gujarat	397500 kg/month
NIRMA-LAB	143	1711.96	Ex-Vadodra	120,000 tonnes/year
Reliance-Caustic Soda Lye	34	407.04	Ex-Gujarat	69500 tonnes/annum
Reliance-DEG	63.7	762.60	Ex-Jamnagar	65,000 tonnes/year
Reliance-LAB	144	1723.93	Ex-Vadodra	180,000 tonnes/year

Reliance-MEG	55.6	665.63	Ex-Jamnagar	750,000 tonnes/year
Reliance-Mix Xylene	85	1017.60	Ex-Jamnagar	120,000 tonnes/year
Reliance-PTA	87.3	1045.13	Ex-Dahej Gujarat	1,300,000 tonnes/year
Reliance-TEG	116.5	1394.71	Ex-Jamnagar	NA
Reliance-Toluene	86	1029.57	Ex-Jamnagar	100,000 tonnes/year
SI GROUP-Phthalic Anhydride	115	1376.75	Ex-Navi Mumbai	11000 tonnes/ year
TATA Chemicals-Soda Ash light	35	419.01	Ex-Bhiwandi	900,000 tonnes/year
Note-Above prices have been collected from experts and experienced outsources of the industry. Kindly verify from your end as well. Above prices are Exclusive of GST				
Note- Last changed price means when it changed last whether its yesterday or 2 days ago or 5 days ago or depends on last changing.				

All of the above prices are provided by chemicalsupdates.com.
If you wish to subscribe to the pricing module,
please send us an email at info@chemicalmarket.net
or call us on +91-877-9830-330

New Chemical Products Listed on Chemical Market Leads Platform

FATTY ALCOHOL PITCH / 38237090 / LOCAL



CAS-Number :

Molecular Formula :-

Molecular Weight : mol/g

Available Qty :- 1000.0000 Kgs

Package Size :- 30 Kg Bag

Price :- Available on Request

Markets :- Surfactants | Personal Care / Cosmetics | Paints & Coatings | Catalysts | Plastics/Polymers | Oils Refinery and Petrochemicals | Specialty Chemicals | Dyes and Pigments | Oleochemicals | Rubber & Resins | Construction Chemicals | Inks and Printing | Solvents | Lubricants | Additives | Soap & Detergents | Paper Industry | Textile Industry | Industrial Chemicals |

HAND WASH / 34011941

CAS-Number :-

Molecular Formula :-

Molecular Weight :- mol/g

Available Qty :- 200.0000 Kgs

Package Size :-05/25/50 Kgs HDPE Carboy

Price :- Available on Request

Markets :- Adhesives & Sealants | Water Treatment | Agro Chemicals | Dyes and Pigments | Inks and Printing | Soap & Detergents | Paper Industry | Leather Industry | Textile Industry |

TOILET CLEANER / 7664-38-2 / 34022090

CAS-Number :- 7664-38-2

Molecular Formula :- CL4O3P2

Molecular Weight :- mol/g

Available Qty :- 500.0000 Kgs

Package Size :- 05/25/50 Kgs HDPE Carboy

Price :- Available on Request

Markets :- Adhesives & Sealants | Water Treatment | Agro Chemicals | Dyes and Pigments | Inks and Printing | Soap & Detergents | Paper Industry | Leather Industry | Textile Industry

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DISH WASH / 1310-73-2 / 34029019

CAS-Number :-1310-73-2

Molecular Formula :- CH3NH2·HCL

Molecular Weight :- mol/g

Available Qty :-100.0000 Kgs

Package Size :- 05/25/50 Kgs HDPE Carboy

Price :- Available on Request

Markets :-Adhesives & Sealants | Water Treatment | Agro Chemicals | Dyes and Pigments | Inks and Printing | Soap & Detergents | Paper Industry | Leather Industry | Textile Industry

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LIQ DETERGENT / 497-19-8 / 34011990

CAS-Number :- 497-19-8

Molecular Formula :-

Molecular Weight :- mol/g

Available Qty :- 250.0000 Kgs

Package Size :- 05/25/50 Kgs HDPE Carboy

Price :- Available on Request

Markets :- Adhesives & Sealants | Water Treatment | Agro Chemicals | Dyes and Pigments | Inks and Printing | Soap & Detergents | Paper Industry | Leather Industry | Textile Industry

Arkema showcases sustainability and partnerships for 3D printing at Rapid+TCT 2024

Arkema, a world leader in specialty materials, will feature a range of sustainability-focused initiatives and recent partnerships across the 3D printing industry at the upcoming RAPID+TCT 2024 show at the Los Angeles Convention Center, June 25-27, Booth #2921. Arkema offers a wide range of solutions and materials for 3D printing applications, with a focus on industrial manufacturing, transportation, dental, medical and consumer goods markets

Arkema is developing new 3D printing materials and announcing industry partnerships to align with the company's sustainability goals, and to further enable industrial efficiency and a more sustainable lifestyle. At RAPID+TCT, we will showcase partnerships and products designed to improve recyclability, enhance bio-content and optimize the durability and performance of 3D printed materials.

Arkema Offers Materials for multiple 3D printing technologies, including liquid resins for UV curing, Thermoplastic powders for powder bed fusion and thermoplastic pellets for filament extrusion.

Sustainability through innovation

At RAPID+TCT, Arkema will showcase how existing and new product initiatives support the company's decarbonization and circularity goals

- **High-efficiency bio-based UV oligomers,** including Sarbio® 7405 toughening oligomer with 50% bio-content that offers an excellent balance between hardness and flexibility, and Sarbio® 7407 highly flexible oligomer with 75% bio-content that enables high elastomeric performance.

- **High-performance bio-based UV formulation,** N3xtDimension® N3D-PR184-BIO industrial and consumer modeling material with 53% bio-content that exhibits stiffness, accuracy, resolution and easy processability.

- **Low carbon footprint bio-based Rilsan® polyamide 11** powders for Laser Sintering may reach less than 2 kg CO2e/kg, by using renewable or low carbon energy sources and by making several energy efficiency improvements in its production sites.

- **Highly Reusable Thermoplastic PA12 Powders,** enabling the HP 3D HR PA12S launch from HP. Thanks to its higher powder reusability and unique smoothness properties, the HP 3D HR PA 12 S enabled by Arkema offers parts with highly competitive cost and excellent surface finish for HP MJF technology.

- Mass Balance* certification across the value chain, enabling customers to decarbonize and accelerate their own sustainability goals. This certification includes multiple production sites worldwide with ISCC+ certification.

* Mass Balance: Mass balance chain of custody is designed to track the total amount of the content in scope through the production system and ensure an appropriate allocation of this content to the finished goods based on auditable bookkeeping. Property conservation principle is set to ensure that the total certified output does not exceed its original input and take into account the appropriate conversion losses and production / assembly ratios. The ISSC+ certification of the whole supply chain guarantees that the origin of the renewable sources meets ISCC+ standards for sustainable feedstocks.

Source : Arkema

Latest Sustainability Report confirms key role of DOMO Chemicals' Polyamides in Decarbonizing Chemical and Plastics Industry

- ISCC+ certification obtained for three key DOMO production sites and over 300 PA6 and engineered materials products

- EcoVadis Gold Medal achieved, improving from Silver Medal with 13-point score increase

- Strategic partnerships with MARTOR, OMV and Mitsubishi Chemical Group enabling the use of circular and bio-based materials

- 29% decrease in scope 1 and 2 GHG

emissions against 2019 baseline, on target for 40% reduction by 2030

Ghent, June 20, 2024 - DOMO Chemicals, a global leader in engineered materials and sustainable solutions, proudly announces significant sustainability achievements in 2023, as detailed in its latest Sustainability Report published today.

In a year marked by substantial progress and innovative partnerships, the company obtained the International Sustainability and Carbon Certification PLUS (ISCC+) label for three production sites and over 300 PA6 and engineered materials products. This certification enhances DOMO's ability to offer customers a wider range of circular and bio-based solutions, reinforcing its commitment to customer-centric innovation.

Further solidifying DOMO's dedication to sustainability, DOMO Chemicals has been awarded the prestigious EcoVadis Gold Medal, improving from a Silver Medal in 2022 with an impressive 13-point score increase. This recognition from the world's largest provider of corporate sustainability ratings underscores the company's commitment to sustainable practices and continuous improvement. It also provides a clear benchmark for DOMO's customers to evaluate the company's sustainability performance.

Purposeful partnerships : Strategic partnerships have been key to DOMO's success. Collaborations with MARTOR, OMV and Mitsubishi Chemical Group have enabled the effective use of circular and bio-based materials. These alliances are instrumental in helping DOMO achieve its goal of selling 20% of its engineered materials volume from circular and bio-based grades by 2030, as the company already reached 13% in 2023.

DOMO's efforts to reduce greenhouse gas (GHG) emissions have yielded significant results. The company achieved a 29% reduction in Scope 1 and 2 GHG emissions from its 2019 baseline, well on its way to its 2030 target of a 40% reduction. In addition, the company has increased its use of renewable electricity by 50% year-over-year, reaching 18% across its global operations in 2023.

"Our sustainability achievements in 2023 underscore DOMO Chemicals' unwavering commitment to creating a better future through innovation and collaboration," said Yves Bonte, CEO of DOMO Chemicals. "Every day, we strive to create new opportunities for our customers with polyamides that make cars lighter, electronics safer and tools more sustainable. We are proud of our progress and inspired by the trust our customers place in us."

Caring and commitment : DOMO's culture of 'caring is our formula' continues to drive the company's success. Yves Bonte: "Our goal is to foster an inclusive, supportive, and dynamic workplace where every employee can thrive." The recent Pulse Check survey shows unwavering employee engagement, and DOMO's newly established Employee Assistance Program provides further support for employees and their families. With a multicultural workforce representing 18 nationalities, DOMO prides itself on its adherence to inclusiveness. As DOMO expands globally, the new facility in China exemplifies the group's dedication to environmental stewardship and global reach. DOMO remains committed to driving innovation and securing quality jobs while advancing sustainability goals.

"The year 2023 has paved the way for a more unified and resilient industry," added Bonte. "Sustainability is not a destination, but an ongoing journey. This year's report is a testament to our caring formula for responsible progress. Together, we can build a more sustainable future as we care deeply for a better tomorrow."

Source : Press Release Finder

Bharat Petroleum Corporation Ltd. Selects Univation's UNIPOL™ PE Process for Two World-Scale Production Lines in India

HOUSTON, June 20, 2024 / PRNewswire/ -- Bharat Petroleum Corporation Ltd. ("BPCL") has selected Univation's UNIPOL™ PE Process Technology for two world-scale production lines to be located at BPCL's Bina Refinery site in Madhya Pradesh, India. The two units are designed to achieve a combined nameplate production capacity of 1,150,000 tons per annum of polyethylene (PE). The process designs for the two BPCL's reactor lines are engineered

with full production back-fill capabilities to maximize manufacturing flexibility, increase PE resin supply continuity, and enable enhanced responsiveness to emerging marketplace needs. The two BPCL reactor lines will enable production of both high-density polyethylene (HDPE) and linear low-density polyethylene (LLDPE) products allowing BPCL to meet their customer demands across a wide range of PE applications essential for Indian markets. BPCL is accessing Univation's advanced HDPE platforms, including advanced PRODIGY™ Bimodal HDPE Technology and advanced ACCLAIM™ Unimodal HDPE Technology, to satisfy the high-performance needs of HDPE end-use applications including high-pressure PE100 and PE80 pipe, small part blow molding (SPBM), and large part blow molding (LPBM). Furthermore, BPCL will also utilize Univation's XCAT™ Metallocene Catalysts to produce advantaged metallocene films covering specialty end-use applications such as durable shipping packages, film structures to enhance food preservation, and metallocene films designed for sustainable agricultural applications.

Nathan J. Wiker, president of Univation Technologies, commented, "We are honored by BPCL's selection of Univation's UNIPOL™ PE Process for their two reactor lines in India, and our Univation teams are ready to work side-by-side with the BPCL teams on the successful design, commissioning and safe start-up of these two world-scale plants." Nathan continued, "Even beyond start-up, we look forward to a continuing strong collaborative relationship with BPCL to enable their teams to maximize value in high-performance end-use markets, including metallocene LLDPE and bimodal HDPE applications, with the elegant and efficient UNIPOL™ PE Process."

About Bharat Petroleum Corporation Ltd. ("BPCL") :

Fortune Global 500 Company, Bharat Petroleum is the second largest Indian Oil Marketing Company and one of the integrated energy companies in India, engaged in refining of crude oil and marketing of petroleum products, with presence in the upstream and downstream sectors of the oil and gas industry. The company attained the coveted Maharatna status, joining the club of companies having greater operational & financial autonomy.

About Univation Technologies, LLC :

Univation Technologies is the global leader in licensed polyethylene technology. Univation has a proven track record of delivering process, product and catalyst technologies as well as related technical services to the global polyethylene industry for more than 50 years. More than one-third of all HDPE and LLDPE resins produced globally is supplied by the industry-leading UNIPOL™ PE Process. Univation is also the world's leading manufacturer and supplier of conventional and advanced polyethylene polymerization catalysts designed specifically for the UNIPOL™ PE Process. For more information, visit www.univation.com.

Source : Univation Technologies, LLC

Perstorp works with Intel Open IP Advanced Liquid Cooling on Synthetic Thermal Management Fluid

Malmö June 25, 2024 - Leading global specialty chemicals innovator Perstorp, a wholly-owned subsidiary of PETRONAS Chemicals Group Berhad (PCG), has worked closely with Intel's Open IP Advanced Liquid Cooling team in recent years. Together they have developed a high-performance synthetic thermal management fluid specifically designed for immersion cooling in data centers. They initiated the partnership in 2022 as a part of continuing efforts to create more sustainable data center cooling solutions. More recently, the partners participated in COMPUTEX 2024 in Taipei where Intel showcased its Gaudi 3 AI accelerator solution. The accelerator uses Intel's SuperFluid Cooling Technology, which leverages the low viscosity and high flash point balance of Perstorp's advanced synthetic thermal management fluid.

With the rising demand for AI applications, tech companies are continually engaging in a race to enhance computing power. Liquid cooling technology is a key to achieving high-density deployments in data centers. Stakeholders, from chip manufacturers to data center ODMs, end-user OEMs, and cooling ecosystem partners, are all involved in the development of advanced liquid cooling technologies. These efforts aim not only to meet high heat-transfer efficiency demands but also to reduce energy consumption and promote sustainable development.

Valentina Serra-Holm, Perstorp's Vice President for Engineered Fluids, stated, "The recent surge in the AI race has brought a lot of attention to liquid cooling.

Our innovative capabilities in engineered fluids have been widely recognized. In collaboration with Intel, we have developed an advanced synthetic thermal management fluid suitable for their SuperFluid technology, achieving the critical goals of high thermal performance and low viscosity. We aim to continue, and expand, our collaboration with our value chain partners to help push forward the field of immersion cooling."

Perstorp joined Intel's Open IP Advanced Liquid Cooling ecosystem in 2022, focusing on the demands of immersion cooling and cold plate cooling. During this collaboration, the focus of Perstorp's product development has been on innovating a fluid that has low viscosity and long product life, as well as outstanding dielectric and fire-safety properties.

In comparison to conventional, single-phase immersion cooling with its cooling capacity of about 500W per chip, Intel's SuperFluid technology, which uses air as a lubrication system, can increase cooling capacity to 800W. The cooling capacity per chip can be further improved to 1500W when this is combined with the low viscosity properties of Perstorp's advanced synthetic thermal management fluid, together with flow field management, optimized system control, and intelligent management of the Cooling Distribution Unit (CDU). This meets the needs of future high-end AI chips while complying with global requirements for data center power usage effectiveness (PUE).

Beyond the high performance and efficiency benefits in-use, Perstorp has worked on enhancing the fluid's intrinsic sustainability profile. More concretely, the fluid is PFAS-free, and therefore has a low global warming potential (>1) and an ozone depletion potential of zero. The tested fluid is also readily biodegradable and has an improved toxicity profile relative to existing solutions.

In addition, the fluid has been created with future sourcing options in mind, allowing for the potential shift to up to 100% renewable or recycled traceable mass-balanced raw materials in the future. This is in line with Perstorp's long-term ambition and guiding star to become Finite Material Neutral. This, among other things, involves a full shift to renewable and recycled raw materials.

Source : Press Release Finder

PPG launches TOMORROW INCLUDED sustainability marketing concept for Architectural Coatings in EMEA

ROLLE, Switzerland -- (BUSINESS WIRE)-- PPG (NYSE: PPG) announced the launch of the TOMORROW INCLUDED® sustainability marketing concept for its Architectural Coatings (AC) business in Europe, the Middle East and Africa (EMEA). The concept aims to highlight the sustainability advantages of many of PPG's architectural products and serves as a way to communicate the company's sustainability story to customers.

The Tomorrow Included concept will be introduced in stages over the coming months with the TIKKURILA®, BECKERS™, SIGMA®, JOHNSTONE'S® and ALCRO® brands by PPG. Sustainability advantages, including durability, energy savings, safety, carbon reduction and recyclability, will become visible on product packaging and in marketing materials such as advertisements, websites and social media.

"At PPG, sustainability is built into everything we do – how we innovate, operate and go to market," said Svea Paju, PPG marketing director brands, AC EMEA North and East. "Our commitment to sustainability empowers us to guide our customers towards the right product solutions that align with their sustainability ambitions.

"Sustainability is becoming a qualifier for doing business in many parts of the world. It is a critical topic not only for customers, but also for a variety of stakeholders, including investors, employees, potential employees and suppliers," Paju said. "We believe this concept will help our customers make a more informed choice."

PPG recently published its 2023 ESG report, which showed strong progress against the company's near-term 2030

environmental, social and governance (ESG) targets. These include increased sales of sustainably advantaged solutions and reducing greenhouse gas (GHG) emissions throughout the company's own operations and the value chain. To read the report, go to ppg.com/sustainability.

PPG: WE PROTECT AND BEAUTIFY THE WORLD®

At PPG (NYSE:PPG), we work every day to develop and deliver the paints, coatings, and specialty materials that our customers have trusted for more than 140 years. Through dedication and creativity, we solve our customers' biggest challenges, collaborating closely to find the right path forward. With headquarters in Pittsburgh, we operate and innovate in more than 70 countries and reported net sales of $18.2 billion in 2023. We serve customers in construction, consumer products, industrial and transportation markets, and aftermarkets. To learn more, visit www.ppg.com.

Source : PPG

Breakthrough Adhesive from IPS Adhesives Bonds PP, PE, and other LSE Materials, Permanently

DURHAM, N.C., July 11, 2024 / PRNewswire/ -- IPS Adhesives, a leading global structural adhesive and surfacing products manufacturer, has introduced a revolutionary adhesive that provides strong, reliable bonding on low surface energy (LSE) materials such as polypropylene (PP) and polyethylene (PE). The new SCIGRIP SG400LSE adhesive requires no surface preparation and has low sag, as well as short working and fixture times.

"Product design engineers seeking the many advantages of low surface energy plastics like PP and PE have long been plagued by difficulty in bonding them with adhesives. We are excited that our chemists have solved that problem for engineers. Our new SG400LSE adhesive bonds PP, PE, and other LSE materials without surface preparation giving the engineering community new flexibility in creating stronger, lighter, and more durable products," said Scott McDowell, IPSA President.

The new SG400LSE product is a two-part translucent, methyl methacrylate adhesive (10:1). It cross-bonds plastics to metals such as steel and aluminium. Unlike adhesives that claim to bond LSE materials and fail after a few months, SG400LSE sets in less than 24 hours, is practically indestructible once it does set, and bonds well to metal.

"No other LSE bonding product bites into the molecule and attaches to it like we do. Our testing constantly reveals strong bonds across a broad range of substrates, as well as environmental resistance capabilities. We invite assemblers and fabricators in all industries to see how we can give them stronger, lighter, more durable, and more attractive bonding solutions," said McDowell.

Areas in which the SG400LSE solution is already proving valuable include bonding large plastic storage tanks, such as those used for petroleum, grey, or black water; automotive interior fixtures; medical devices; workstations; casework; truck panels; outdoor furniture; and signage.

SG400LSE adhesives are available now through IPSA's global distribution network. For more information, please visit scigripadhesives.com, and to see a live demonstration visit IPSA at CAMX, 9-12 September, San Diego CA, Booth E24, or at the IAPD Connex Performance Plastics Association convention, 7-10 October, Louisville, KT, USA, booth 40.

Source : PRNewswire