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DYES & CHEMICAL MARKET

MAY 2024

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Connecting the Chemical Industry Together !

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4.	Benzotrichloride	CAS RN. 98-07-7
5	Chloroethylene Carbonate	CAS RN. 3967-54-2
6.	Dichloromethane	CAS RN. 75-09-2
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No	**Exibitions**	**Date**	**Place**
1	CPhI North America	TBD	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 19-21, 2024	Shanghai, China
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 2024	June 19-21, 2024	Johannesburg, South Africa
DYE+CHEM			
1	Dye+Chem Morocco International Expo	TBD	Morocco
2	43rd Dye+Chem Sri Lanka International Expo	TBD	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	TBD	Istanbul
3	Paint Expo Eurosia	Oct 01-03, 2025	Messe Karlsruhe
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	June 19-20, 2024	Germany
5	ChemUK Expo	May 15-16, 2024	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	TBD	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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CHEMICAL MARKET

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

Growth Drivers in the Chemical Industry

Chemicals industry in India is highly diversified, covering more than 80,000 commercial products. It is broadly classified into Bulk chemicals, Specialty chemicals, Agrochemicals, Petrochemicals, Polymers and Fertilizers. India's proximity to the Middle East, the world's source of petrochemicals feedstock, makes for economies of scale.

India is a strong global dye supplier, accounting for approximately 16% of the world production of dyestuff and dye intermediates. Chemicals industry in India has been de-licensed except for few hazardous chemicals. Upcoming Petroleum, Chemicals and Petrochemicals Investment Regions (PCPIRs) and Plastic parks will provide state-of-the-art infrastructure for Chemicals and Petrochemicals sector.

- The production of Total Major Chemicals and Petrochemicals in 2022-23 (up to Sept 2022) is 26570 thousand MT.
- CAGR in the production of Total Chemicals and Petrochemicals during the period 2017-18 to 2021-22 is 4.61%.
- India ranks 11th in the World Exports of Chemicals (excluding pharmaceutical products) and ranks 6th in the World Imports of Chemicals (excluding pharmaceutical products).
-FDI in Chemicals sector (excluding fertilizers) is $21.71 (Apr 2000 to Sept 2023)
- Indian chemical industry employs more than 2 Mn people.
- The production of Major Chemicals in 2023-24 (up to Aug 2023) is 53.54 Lakh Tonnes.
- The combined exports of Major Chemicals and Major Petrochemicals in the year in 2023-24 (Apr 2023- Aug 2023) has decreased to INR 44.09 Thousand Cr from INR 59.86 Thousand Cr over the corresponding period of last year (Apr 2022-Aug 2022).
100% FDI is allowed under the automatic route in the chemicals sector (except in the case of certain hazardous chemicals).

According to Invest India, the following are the key points for growth drivers:

- There has been an uptrend in the rising disposable income, median age of population, urbanisation and growing penetration and demand from rural markets.
-The shift in production and consumption towards Asian and Southeast Asian countries in all sectors is leading to increasing demand for the chemicals and petrochemicals.
-There has been a constant shift in consumer preferences towards a healthier lifestyle and environment-friendly products like the electric vehicles and power generation including solar, wind and hydro power.
- The Production Linked Incentives (PLI) schemes for manufacturing of Advance Cell Chemistry Battery has been in the forefront under the Atmanirbhar Bharat Abhiyan.

The market size of Chemicals & Petrochemicals sector in India is around $215BN and is expected to grow to $300 Bn by 2025. The following are the key points to consider:

- Exports of Chemicals and Chemical products (excluding pharmaceutical products and fertilizers) contributed 11.7% of total export in the year 2021-22 compared to 12.9% in the year 2020-21. It contributed 10.8% of total export in the year 2022-23 (up to Sept 2022).
- CAGR in Export of total Chemicals and Chemical products (excluding pharmaceutical & fertilizer products) during the period 2017-18 to 2021-22 was 13.86% while CAGR of total national export was 12.62%.
- The compounded average growth rate(CAGR) during the period 2017-18 to 2021-22 was 4.4% for manufactured product based on WPI while it was 4.4% for Chemicals and Chemical Products.
- The Index of Industrial Production of Chemical & Chemical products achieved record to 137.2 in Jul, 2022 as against the lowest value of 109.1 recorded in May 2021.
- The quantum of production of Major Chemicals decreased to 53.54 Lakh Tonnes during 2023-24 (up to Aug 2023) as compared to 54.32 Lakh Tonnes during the corresponding period of the previous year.
- The quantum of production of certain Petrochemicals such as Synthetic Detergent
- Intermediates was 34.07 Lakh Tonnes in 2023-24 (up to Aug 2023)
- Production of Organic Chemicals has increased (Up to Aug 2023) as compared to the corresponding period of the previous year, recording an increase of 4.52%.
- The quantum of production of Major Petrochemicals increased (up to Aug 2023) compared to corresponding period of previous year recording an increase of 6.08%.

Note: The content and the numbers are picked from investindia.gov.in

- Rajiv Parikh

Dyes Chemical Market

(A Monthly Magazine)

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MUMBAI PRICE TREND – 16.03.2024	
Organic & Inorganic Chemicals	Price (Rs/Kg)
Acetone	112+
Phenolic	99+
Sorbic 100 kg	290+
Proplene Glycol Tech	116+
Butyl Carbitol Oucc Tawan	152+
Butyl Carbitol Petronas	155+
Benzoic Acid Wuhan Youji	92+
Adipic Acid Haily	116
Acrylic Acid Sattelite/Sanmu	91
Butyl Cellosolve Lotte Korea Intact	154+
Cyclo Hexanone Tpcc Taiwan Intact	108+
Alphox 500	170+
MIBK	138+
Toluene	90+
Benzene	95+
Ortho Xylen	108+
M. Xylene	95+
IPA.	143+
Meg	58+
Deg.	72+
Bam	143+
Methanol	34+
MTO.	75.50+

NBA	112+
Ethyl Acetate	84+
N. Proponal	93+
Pottasium Carbonate Imp	83+
DCDA	178+
SBC	1575
Soda Tata	1525
Acid	53+
Butyl	111+
B Cell	157+
DA	129+
DMA 40%	57+
EDC	44+
Hexane	72+
MCB	74+
MEK	112+
MMA 40%	49+
N Benzene	86+
N Pac	105+
Octonol	173+
Styrene	109+
VAM	84+
C9	105+
C Hexanone	138+
I Butanol	115+
Formal	20/+

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

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Market Prices given in this Magazine is to know market trend only.
We assume no responsibility for availability of products at quoted prices.

CHENNAI PRICE TREND – 29.04.2024

Inorganic Chemicals	No of Units Per Pack	Price (Rs/Kg)
Acid Slurry (Soft)	50Kgs	120.00
Alum- Ferric	50Kgs	21.00
Ammonium Bicarbonate	25Kgs	25.00
Ammonium Bi fluoride	50Kgs	178.00
[sugar-grade]	50Kgs	88.00
Ammonium Carbonate	50Kgs	24.00
Ammonium Chloride	50Kgs	30.00
Ammonium Nitrate	50Kgs	135.00
Ammonium Phosphate (Mono)	50Kgs	22.00
Ammonium Sulphate	50Kgs	1050.00
Antimony Trioxide	50Kgs	58.00
Barium Chloride	25Kgs	14.00
Bleaching Powder (33% Cl)	50Kgs	70.00
Borax (Granular)	50Kgs	150.00
Boric Acid (Tech.)	50Kgs	18.00
Calcium Carbonate (Activate)	50Kgs	17.00
Calcium Carbonate (Precipitated)	50Kgs	14.00
Calcium Chloride Lump 70%	50Kgs	28.00
Calcium Chloride-Anhydrous	200Litrs	135.00
Camphor Oil	50Kgs	88.00
Caustic Potash (Flakes)	50Kgs	42.00
Caustic Soda (Flakes)	50Kgs	92.00
Caustic Soda (Prills)	50Kgs	320.00
Chromic Acid Flakes	25kgs	85.00
Chlorinated Xylene	50Kgs	220.00
Copper Sulphate	50Kgs	34.00
Di ammonium Phosphate	180kgs	82.00
Dioctylmalite	50Kgs	44.00
Ferric Chloride (Anhydrous)	50 Kgs	16.00
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	118.00
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	105.00
Potassium Carbonate (Powder)	25Kgs	110.00
Potassium Carbonate (Granules)	25Kgs	92.00
Potassium Nitrate	50Kgs	150.00
Potassium Permanganate [Tech]	50Kgs	160.00
Potassium Permanganate [Pure]	50kgs.	185.00
Potassium Phosphate (Di)	50Kgs	158.00
S.L.E.S	50kgs	51.00
Soda Ash Light	50Kgs	30.00
Sodium Bicarbonate	50Kgs	33.00
Sodium Bichromate	50Kgs	180.00
Sodium Bisulphite	50Kgs	45.00
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	28.50
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	198.00
Titanium Dioxide (Rutile - R-902)	25Kgs	258.00

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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)phenyl-methyl]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.		

Silicon Anode Lithium-Ion Battery Market to Reach US$ 57,653.4 Million by 2034, Amid Growing Automotive Sector and Demand for Durable EV Charging Batteries

NEWARK, Del., May 6, 2024 / PRNewswire/ -- According to Future Market Insights (FMI), the global silicon anode lithium-ion battery market value is set to reach US$ 1,052.8 million in 2024 and US$ 57,653.4 million in 2034. Over the assessment period, the industry is predicted to surge at a CAGR of 49.2%.

Growing demand for electric vehicles and electronics necessitates advanced, high-energy, and secure battery solutions, propelling demand for silicon-anode lithium-ion batteries. Developments in battery chemistry, manufacturing, processing, recycling technologies, and infrastructure investments are further projected to fuel the growth.

The automotive industry plays a pivotal part in propelling the silicon anode lithium-ion battery market, fuelled by the necessity for secure and dependable energy sources. Silicon anode batteries exhibit superior safety compared to alternative anode materials like carbon and graphite, offering extended battery life and sustainability.

Silicon anode lithium-ion batteries prove their effectiveness in aerospace applications due to their high energy density and efficiency, surpassing conventional graphite anodes. With a capacity approximately ten times greater than graphite, silicon emerges as a promising option for aerospace applications where weight reduction and energy efficiency are vital.

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

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Basalt Fiber Market Set for Explosive Growth, Reaching $824.8 Million by 2034 | Future Market Insights, Inc.

NEWARK, Del., April 22, 2024 / PRNewswire/ -- The value of the basalt fibre market is anticipated to reach US$ 275.2 million in 2024 and is expected to reach to US$ 824.8 million by 2034. The forecasted CAGR for the market between 2024 and 2034 is 11.60%. The basalt fibre industry is being propelled forward by the increasing demand for lightweight and high-strength materials across various industries such as automotive, construction, and aerospace is fueling the adoption of basalt fibre. Its remarkable properties, including high tensile strength and resistance to corrosion, make it an attractive alternative to traditional materials like steel and fiberglass.

The growing emphasis on sustainability and environmental concerns is driving the demand for eco-friendly materials like basalt fibre, which is derived from natural volcanic rock. Furthermore, technological advancements in manufacturing processes are enabling the production of basalt fibre at lower costs, making it more accessible to a wider range of applications. Overall, these factors are driving the growth of the basalt fibre industry and positioning it as a promising solution for various industrial needs.

Despite its promising potential, the basalt fibre industry faces several challenges that act as restraints to its growth. One major challenge is the competition from alternative materials such as carbon fiber and fiberglass, which offer similar properties but may be preferred in certain applications due to cost or performance considerations. Moreover, the relatively limited awareness and understanding of basalt fibre among end-users and manufacturers can hinder its adoption and market penetration.

The rising investments in infrastructure development projects, particularly in emerging economies, offer lucrative opportunities for the basalt fibre industry to supply materials for construction, reinforcement, and insulation purposes. Moreover, ongoing research and devel-

opment efforts aimed at enhancing the properties and applications of basalt fibre open up new avenues for innovation and market expansion.

The basalt fibre industry is witnessing several noteworthy trends that are shaping its trajectory. One prominent trend is the increasing focus on product diversification and customization to meet the specific requirements of different applications and end-users. Manufacturers are investing in developing new variants of basalt fibre with enhanced properties such as improved flexibility, fire resistance, and thermal insulation. Another trend is the growing adoption of automation and advanced manufacturing technologies to streamline production processes and improve efficiency in basalt fibre manufacturing.
There is a rising trend towards collaborations and partnerships between industry players to leverage complementary strengths and expand market reach. Furthermore, the integration of basalt fibre into emerging technologies such as 3D printing and composite materials is opening up innovative possibilities and driving further demand for the material. Overall, these trends underscore the dynamic nature of the basalt fibre industry and its continuous evolution to meet evolving market demands.

"The basalt fibre industry presents numerous opportunities for growth and expansion. One significant opportunity lies in the increasing demand for sustainable and high-performance materials across industries such as transportation, infrastructure, and renewable energy. Basalt fibre, with its eco-friendly nature and superior properties, is well-positioned to capitalize on this trend and capture a larger market share." Says Nikhil Kaitwade (Associate Vice President at Future Market Insights, Inc.).

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

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The Liquid Crystal Revolution: Leading the Global Market to Greater Heights with a (CAGR) of 6.1% between 2023 and 2028

Liquid Crystal Polymers: Global Markets' is basically a report or study that looks at how liquid crystal polymers are doing all around the world. These are special kinds of materials that have some really cool properties like being able to handle heat and electricity in unique ways. The report talks about how big the market is, what's trending, what's driving sales, what problems there might be, and it also looks at different regions and how they're doing. It's helpful for people who are interested in these materials, like businesses, investors, researchers, and people who work in the industry.

BOSTON, May 6, 2024 /PRNewswire/ -- According to the latest BCC Research study, the demand for Liquid Crystal Polymers: Global Markets expected to grow from $957.5 million in 2023 and will reach $1.3 billion by the end of 2028 at a compound annual growth rate (CAGR) of 6.1% from 2023 through 2028.

This report looks at how liquid crystal polymers are doing in different forms, applications, end users, and regions. It splits the market into compounds, fibers/threads, and sheets/films for forms; composites and components, coatings, additives, and others for applications; and semiconductors/electronics, automotive, healthcare, consumer goods, aerospace, and others for end users. It focuses on regions like Asia-Pacific, Europe, North America, and the Rest of the World. The report predicts how the market will grow from 2023 to 2028 and talks about market strategies, key players, and what's driving the market. It also looks at how environmentally friendly the companies in this market are and provides estimations in terms of value and volume, starting from 2022.

Liquid crystal polymers are getting noticed in medicine because they're tough and strong. They're being used to make medical stuff like catheters, which are those flexible tubes doctor's use. Companies like ZEUS have figured out how to make these catheters MRI-friendly by using special fibers. So, with liquid crystal polymers, we can make all sorts of medical gear that's as strong as metal but much lighter.

Read the full report : https://www.researchandmarkets.com/r/g6ko89

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Beyond Function the Allure of Ceramic Creations

Introduction

From their humble beginnings in ancient civilizations to their contemporary manifestations shaped by cutting-edge technology, Ceramics define spaces with style and functionality. From the intricate patterns on the floors of palaces to the sleek elegance of modern architecture, these stand as a symbol of the enduring legacy of craftsmanship and innovation. A major portion of the Ceramic production today goes into the making of floor and wall tiles. Below is a short description of the manufacturing process.

Ceramic tile manufacturing

Modern Ceramic tile manufacturing comprises several meticulous steps from Raw material preparation to Packaging.

Raw material preparation: Clay minerals, feldspar, and silica among others are mined, crushed, and finely ground into a powder ensuring quality and consistency.

Batch mixing: The powdered raw materials are mixed with water in precise proportions, to form a plastic clay-like mass.

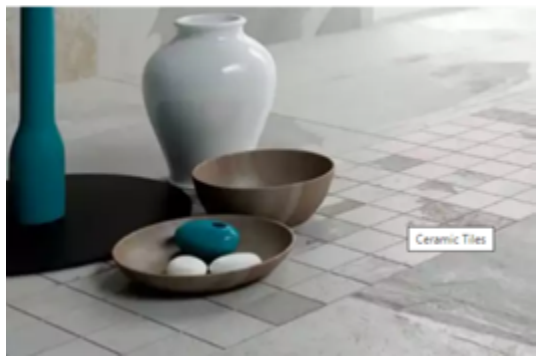
Shaping: The clay mass is shaped using one of three methods depending on the desired end product:-

Extrusion - Material is forced through a dye to create tiles of uniform thickness.

Pressing - The Clay mass is pressed into molds at high pressure to form tiles with intricate designs or textures.

Molding - The mixture is pressed into molds either manually or by machines to obtain irregular shapes or relief patterns on the surface.

Drying: The excess moisture is removed either by drying in ambient air or passing the material through drying chambers to expedite the process.



Glazing: A thin layer of glass-forming material is applied to the dried tile surface either by dipping, spraying, or brushing. Glazing not only enhances aesthetic appeal but also protects against stains and abrasion. Depending upon the end product, some of the materials used at this stage are :

Silicon Dioxide - Glass forming agent.

Metal oxides - For example iron oxide (for red, brown, and yellow colors)

Opacifiers - Example Tin oxide, titanium dioxide. These create opaque or semi-opaque glazes.

Stabilizers - To achieve specific surface effects.

Firing: Glazed tiles are fired in kilns at high temperatures typically 1000 to 1200 deg C. The process vitrifies the clay, making the tiles waterproof and durable.

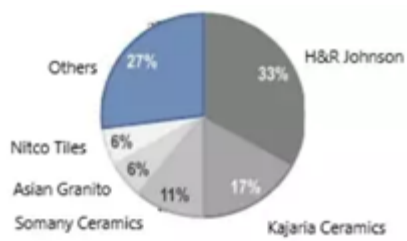
Finishing: Certain decorative tiles undergo additional finishing processes such as polishing to enhance shine and smoothness.

Packaging: Finished tiles are carefully packaged into cardboard boxes, labeled, and made ready for despatch.

Quality checks are conducted at various stages, to ensure the final product meets specifications. The manufacturing of the tiles may seem quite simple. However, the precise mix of Ceramic materials and process parameters play a vital role in the result of the end product.

Tile Market Scenario

The above illustration depicts the major companies involved in the organized sector, which constitutes 50% of the total market share. In terms of value, it is dominated by about 16 organized players. Manufacturing is concentrated in Morbi near Rajkot in Gujarat (the



largest tile manufacturing cluster in the world). It accounts for 80% of the total production in India with about 800 factories. Estimated at Rs 30,000

Continued on Pg 45

RECOVERING VALUABLE METALS IN SCHWARZHEIDE: BASF HAS STARTED PROTOTYPE METAL REFINERY FOR BATTERY RECYCLING

- Innovative technology extracts lithium, nickel, cobalt, manganese and copper from end-of-life lithium-ion batteries and battery production scrap
- Plant represents further milestone in building Europe's first co-located center of battery material production and battery recycling in Schwarzheide

BASF has successfully started operating its prototype metal refinery for battery recycling in Schwarzheide, Germany. The state-of-the-art plant allows for the development of operational procedures and the optimization of innovative battery recycling technology, processing end-of-life lithium-ion batteries and battery production scrap. This will facilitate optimal recovery of valuable metals such as lithium, nickel, cobalt, manganese and copper when scaling up the technology. The prototype metal refinery is another milestone in the construction of Europe's first co-located center of battery materials production and battery recycling in Schwarzheide. It complements BASF's existing cathode active materials plant and the battery recycling plant for the production of black mass, which is scheduled to start operations later this year.

Recognizing the strategic importance of securing a reliable supply of critical battery raw materials, BASF is committed to recovering valuable metals to increase the self-sufficiency of Europe and comply with the EU Battery Regulation. At the same time, battery recycling improves the sustainability of electric vehicles as recycled metals have a significantly lower carbon footprint.

"With the expected rapid growth of the electric vehicle market, battery recycling provides competitive and sustainable access to critical metals," said Dr. Daniel Schönfelder, President of BASF's Catalysts division, who is also responsible for the company's battery materials and battery recycling business. "We will use the extracted metals to enable a truly local circular economy for the battery value chain."

BASF is committed to further developing and scaling up its metal refining technology, with the goal of establishing a commercial-scale refinery in Europe in the next years. This will strengthen BASF's footprint in Europe, complementing a strong collection network for end-of-life batteries and battery production scrap, black mass production as well as battery materials production to accelerate the transition to a circular electromobility in Europe and support the development of a sustainable battery materials ecosystem.

Source : BASF

HUNTSMAN LAUNCHES NEW SHOKLESS™ POLYURETHANE SYSTEMS TO HELP PROTECT ELECTRIC VEHICLE BATTERIES

Tienen, Belgium – Automotive experts from Huntsman have added a series of new lightweight, durable polyurethane foam technologies to the company's battery solutions portfolio that have been developed for the potting and fixation of cells mounted in electric vehicle (EV) batteries. The new range also includes products that can be used as a moldable encapsulant in battery modules or packs.

The new SHOKLESSTM foam systems can offer a flexible choice for helping to safeguard the structural integrity of EV batteries in case of impact or a thermal event. The product family includes a range of low to high density foams that can be used via common polyurethane dispensing processes and can offer a wide processing window for extra handling flexibility.

These new solutions can help provide thermal as well as structural protection at a cell, module, or pack level combined with fast processability compared to non-polyurethane alternatives. The moldable encapsulant version of the SHOKLESS™ system can further expand design and manufacturing options for

EV battery manufacturers and OEMs.

With robust mechanical properties, the new SHOKLESS™ systems can offer very good compression and tensile performance with high elongation to failure. Elastic performance can remain stable at different operating temperatures ranging from -35ºC to 80ºC*. The new systems have also been developed to be easy to work with thanks to their low viscosity and ability to cure quickly at low temperatures.

Alex Stepuk, Global Market Segment Leader Automotive at Huntsman, said: "As the drive to create more electric vehicles continues to accelerate, we are applying our know-how to the challenges facing automotive manufacturers and developing new products that help to address clearly identifiable gaps in the market. We are delighted to extend the breadth of our SHOKLESS™ portfolio into the electric vehicle battery sector."

SHOKLESS™ polyurethane systems are generally compatible with a number of different manufacturing methods such as open- and closed-pour (injection) and cold-cure molding. Certain products in the range can also be dispensed with high pressure equipment. Huntsman also offers simulation and modeling capabilities that can help customers customize and optimize processing parameters, and the structural and thermal performance of the materials, so they can get the very best out of the SHOKLESS™ system they select.

Huntsman is a global leader in MDI-based polyurethanes, serving automotive customers along the value chain. Huntsman delivers innovative, value-added solutions to the world's best-known car brands. Specialisms include lightweight, enhanced comfort and working towards sustainability ambitions in seating, interior trim, acoustic insulation, EV batteries and composite panel applications.

Source : Huntsman

AMERICAN BATTERY TECHNOLOGY COMPANY ANNOUNCES COMMISSIONING OF FIRST-OF-KIND FACILITY FOR MANUFACTURING OF BATTERY GRADE LITHIUM HYDROXIDE FROM NEVADA CLAYSTONE DEPOSIT

RENO, Nev., April 22, 2024 / PRNewswire/ -- American Battery Technology Company (ABTC) (NASDAQ: ABAT), an integrated critical battery materials company that is commercializing its technologies for both primary battery minerals manufacturing and secondary minerals lithium-ion battery recycling, announced the completion of construction and start of commissioning of its lithium hydroxide (LiOH) pilot plant marking a significant milestone in the commercialization of its internally-developed processes to access an unrealized domestic primary lithium resource.

"We're excited to have completed construction of this first-of-kind pilot demonstration system," stated ABTC CEO Ryan Melsert. "We have already generated thousands of liters of lithium solution from our claystone feedstock material demonstrating our selective lithium liberation technologies."

The construction and commissioning of this pilot plant enables ABTC to demonstrate its technologies for accessing the lithium housed in its unconventional resource, Tonopah Lithium Flats Project, in an integrated and continuous system, and to generate large amounts of battery grade lithium hydroxide for delivery to customers for qualifications and evaluation. The construction and operation of this pilot demonstration plant are supported by a competitively awarded grant from the U.S. Department of Energy (DOE) for this $4.5M effort.

Testing and validation of the lithium hydroxide from the hundreds of tonnes of claystone material processed at this plant will be performed by prospective customers such as automotive OEMs, battery manufacturers, and cathode manufacturers. Over a dozen prospective stra-

tegic customers have already toured this pilot facility in recent months, and ABTC is currently evaluating opportunities for the long-term offtake of its battery grade lithium hydroxide.

Lithium products are generally manufactured from conventional resources, which include hard rock spodumene materials primarily from western Australia and lithium-rich brines primarily from South America, however the U.S. does not have large quantities of these developed conventional resources. In order to significantly increase U.S. production of battery grade lithium products, ABTC has been developing its Tonopah Flats Lithium Project (TFLP) with over 10,000 acres of lithium-bearing claystone resource which has been assessed to be one of the largest lithium resources in the U.S.

ABTC plans to further evolve this technology by constructing a commercial-scale 30,000 tonnes lithium hydroxide per year refinery utilizing this system design directly at its TFLP property. In October 2022, ABTC was selected for an additional competitively awarded grant from the U.S. DOE for a $115M project to support the construction of this commercial refinery. ABTC has engaged one of the premier global construction firms, Black & Veatch, for the engineering, procurement, and construction of this commercial-scale lithium hydroxide refinery.

Concurrently, the company is also commercializing its first-of-kind technologies for its battery recycling operations and has successfully manufactured a large inventory of recycled battery metal products at its commercial-scale recycling facility in Storey County, Nevada. ABTC's internally-developed recycling process utilizes an upfront strategic de-manufacturing process followed by a targeted chemical extraction train in order to recover battery materials with high yields, low cost, and with a low environmental footprint. These ABTC recycling technologies have won several competitive corporate awards and government grants and are fundamentally different than conventional methods of battery recycling, which generally utilize either high temperature smelting operations or non-strategic shredding systems.

Bringing first-of-kind technologies to market, ABTC's battery recycling and primary battery metals commercialization efforts support the buildout of a domestically-sourced battery metals circular supply chain.

Source : American Battery Technology Company

LITHIUM-ION BATTERY ADDITIVE TRINOHEX® ULTRA EARNS REACH APPROVAL IN KOREA

HOUSTON, April 30, 2024 / PRNewswire/ -- Ascend Performance Materials' electrolyte additive for lithium-ion batteries has earned REACH approval in Korea, further expanding the availability of this unique material. Trinohex Ultra, manufactured in the United States by Ascend, is now approved for import into Korea in quantities up to 1,000 metric tons annually per REACH, the regulation for registration, evaluation and authorization of chemicals in the region.

Covered by an extensive patent portfolio, Trinohex Ultra is a high-purity 1,3,6-hexanetricarbonitrile designed to increase the life cycle and improve the safety of high-voltage lithium-ion batteries, such as those used in electric vehicles. It works by forming a protective film around the cathode, which prevents metal ion dissolution and decomposition of the electrolyte, resulting in safer, longer-lasting batteries.

Higher voltages enables faster charging and longer range in electric vehicles. But that increased voltage also increases the rate of decomposition and degradation which leads to an increase in transition metals and eventually anode poisoning, said Dave McNeece, the business director for Ascend's sustainable specialties division.

"For battery producers, achieving reliable performance at high voltage has been challenging," McNeece said. "Trinohex Ultra helps slow down the negative effects of transition metal ions with a higher overall voltage stability, allowing cell manufacturers to reach their voltage goals, improve the overall performance of their cells and increase cycle life."

Trinohex Ultra has demonstrated superior cathode protection across cathode and electrolyte chemistries in third-party testing. This protection has shown a 30% reduction in harmful gas generation and longer-lasting performance, especially in extreme conditions.

"Korea produces more than one-fifth

of the world's EV battery capacity," McNeece said. "The expanded import volumes will allow us to support those manufacturers better as they create innovative batteries that work without performance dips associated with the next generation of battery technologies."

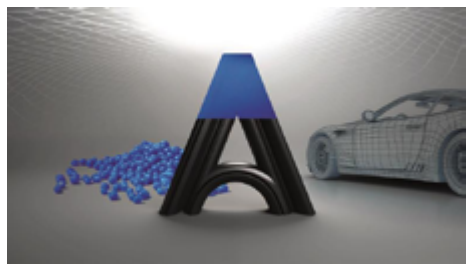
Trinohex Ultra is manufactured on world-scale assets and is readily available globally. Ascend previously announced expanded REACH registration in Europe and China, and the company continues to pursue new and expanded chemical inventory registrations throughout the world.

Source : PRNewswire

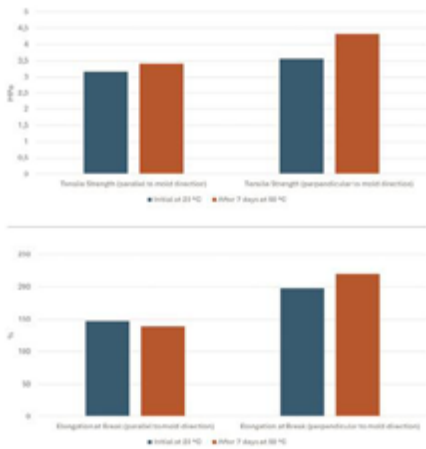
KRAIBURG TPE INTRODUCES NEW EPDM ADHESION COMPOUNDS FOR AUTOMOTIVE INDUSTRY

KRAIBURG TPE unveils its latest innovation: Thermoplastic Elastomers (TPE) with EPDM adhesion for automotive sealing systems and exteriors. These compounds set a new standard in material technology, offering adhesion, durability and processability. Available globally with comprehensive technical support on parts and processing, KRAIBURG TPE reaffirms its commitment to excellence in automotive solutions. This is to empower manufacturers to excel in their products with supply security and constant quality.

KRAIBURG TPE is launching new EPDM adhesion compounds designed for the automotive sealing and exterior sector, addressing global requirements and needs with particular focus on the markets in Europe, North, South and Central America. These compounds epitomize a remarkable leap in material technology, delivering adhesion, durability, and processability essential for demanding applications. Specifically formulated for automotive exterior parts with UV resistance, they find application in glass run channels and sealing profiles featuring molded corner joints and end caps. In close cooperation with one of the most important Tier 1 in automotive sealing businesses worldwide there have successful tests of the compounds in comprehensive trials since 2023. This release emphasizes the importance of the automotive sealing segment for KRAIBURG TPE and the company's commitment to deliver high-quality solutions for OEMs and Tiers.



KRAIBURG TPE's latest market introduction features constant EPDM adhesion quality proven at 23°C and 90°C heat aging, with dry surface appearance. The optimized flow properties provide a broad processing window and increased design flexibility in part and tool design while maintaining high performance standards. Additionally, the compounds offer weathering resistance, color stability, low surface friction behavior and wear and tear resistance. The homogeneous surface quality enhances aesthetics and functionality, meeting the stringent requirements of automotive applications. Compared to full EPDM sealing solutions, TPE-EPDM hybrid technology meets market trends by supporting the transition to TPE for sealing systems due to process efficiency. A lower product carbon footprint as well as weight reduction support efforts towards sustainability.



Global Support and Supply

The new compounds address the needs of original equipment manufacturers (OEM), Tier 1 and Tier 2 in the automotive sealing and exterior industry as well as tool makers. Products are available worldwide, ensuring accessibility and support for manufacturers across the globe. The KRAIBURG TPE service package offers unparalleled support, including assistance with the TPE approval processes at global OEMs, technical guidance, and global supply security with constant quality.

With the introduction of the enhanced EPDM adhesion compounds, KRAIBURG TPE continues to lead the industry in providing innovative solutions for automotive sealing and exterior applications. The company's commitment to quality, performance, and customer support remains unwavering to empower manufacturers to achieve excellence in their products.

To highlight the significance of this technology, KRAIBURG TPE also holds various patents for this new series in Europe and North America.

Source : Press Release Finder

HUMA AND MERCK KGAA LAUNCH INNOVATIVE APP TO SUPPORT BLADDER CANCER PATIENTS

Developed in collaboration with healthcare professionals and leading patient organisations, the app is designed to support patients and caregivers in navigating the complexities of bladder cancer treatment and maintenance therapy by providing a reliable source of information and support throughout the treatment journey.

Features include:

- Personalised treatment and symptom management tools
- Educational resources and information on bladder cancer
- Medication reminders and adherence tracking
- Signposting to support networks and community forums
- Several UK-based patient organisations and specialist cancer care centres were involved in developing and piloting the bladder cancer treatment journey app.

Alex Filicevas, Executive Director at the World Bladder Cancer Patient Coalition, emphasised the importance of the app in supporting patients and caregivers through a complex treatment journey: "It was a privilege to work alongside bladder cancer patients and caregivers, helping to shape a new digital resource for bladder cancer patients to aid the complex path of treatment. This initiative underscores our joint dedication to fostering patient empowerment, shared decision-making and community within healthcare delivery."

Joachim Chan, a consultant clinical oncologist at the Clatterbridge Cancer Centre in Liverpool, noted that digital solutions are critical in supporting patients in navigating changing treatment landscapes: "With the recent groundbreaking trials for bladder cancer, the treatment paradigm is changing rapidly and significantly. Therefore, it is even more important that patients are well informed about their choices… This app will give clear informative summaries of the treatment options available for patients and relatives to absorb, so that they can approach treatment with a more positive mindset."

A Commitment to Advancing Patient Care

Dr Doina Ionescu, Managing Director, Merck Healthcare, UK & ROI, said:

"Patients facing bladder cancer in the UK are up against a set of very difficult challenges, as the area remains one with less awareness, less research and high recurrence and mortality rates. At Merck, we have expertise in understanding the hurdles faced by patients and the pressures facing their healthcare professionals.

"Through our partnership with Huma, we hope to help standardise reliable patient information to support ongoing monitoring and follow-up care. Crucially, with many patients being older generations, the app also offers caregiver access. At a time of resource constraint in the NHS, we believe digital solutions like these hold the key to delivering better, personalised care for all. We are committed to patient-centric care will continue to innovate resources which empower individuals and their caregivers along every step of their treatment journey."

Dan Vahdat, Founder and CEO of Huma, said: "We are excited to launch this innovative app in partnership with Merck, furthering our mission to transform healthcare with a digital-first approach. By empowering patients with access to personalised resources and support, we believe we can make a meaningful difference in the lives of those affected by bladder cancer."

Dr. Mert Aral, Chief Medical Officer at Huma, said: "This initiative is designed to demystify the often-overwhelming journey faced by cancer patients. Our objective is clear – to improve patients' understanding of their condition, enable smooth navigation through complex care pathways, and promote consistent adherence to their treatments. The UK debut marks the inception of our partnership's endeavour to offer comprehensive guidance and unwavering support to all individuals battling cancer."

Source : Huma

ASAHI KASEI BIOPROCESS AND AXOLABS ANNOUNCE STRATEGIC PARTNERSHIP TO ACCELERATE OLIGONUCLEOTIDE THERAPEUTICS DEVELOPMENT

Asahi Kasei Bioprocess America, Inc (AKB), part of the Asahi Kasei Group, and Axolabs have announced a strategic partnership in the burgeoning

field of oligonucleotide therapeutics. The partners will collaborate to build a cutting-edge oligonucleotide cGMP manufacturing facility spanning an area of 59,000 square feet (approximately 5,481 square meters) in Berlin. This cooperation aims to accelerate the development and commercialization of oligonucleotide-based therapies to improve quality of life for patients worldwide.

Oligonucleotide therapies offer a targeted approach to modulating gene expression, splicing, and protein production. By selectively manipulating specific molecular processes, these therapies hold the potential to treat a wide range of diseases (e.g., genetic disorders, cancer, and certain viral infections) at the genetic level, providing new treatment options for patients. In recent years, remarkable advancements in nucleic acid chemistry and cell biology have contributed to refining the design and optimization of oligonucleotide therapies, as well as their delivery mechanisms. Currently, a total of 25 approved oligonucleotide therapeutics have been approved by regulatory authorities worldwide, and numerous others are in pre-clinical and clinical studies with promising prospects for further development.

To meet the escalating demand for oligonucleotide therapeutics, Axolabs, a CRDMO providing drug substances for oligonucleotide-based therapeutics, is establishing a new GMP manufacturing hub in Berlin. By utilizing the unique expertise of AKB, specializing in the field of oligosynthesis equipment, and Axolabs, the facility will serve as a pivotal resource to expedite therapeutic breakthroughs in the industry. It is designed to accommodate a wide range of production scales (small to large/commercial) and will benefit from AKB's robust suite of oligo manufacturing equipment—covering all upstream and downstream manufacturing unit operations from synthesis to concentration—all of which is purpose-built to maximize productivity and provide years of reliable operation.

"We are thrilled to join forces with Axolabs in this transformative endeavor. Our combined technical expertise and strategic alignment will bolster our commitment to meet and exceed the growing needs of the oligonucleotide therapeutics field," said Chris Rombach, SVP of Sales and Marketing at AKB. "Moreover, our involvement from the very early stages of the project allows us to support and facilitate future scale-up efficiently."

Thomas Rupp, Managing Director of Technology & Production at Axolabs, echoed the sentiment, "Partnering with AKB provides a unique opportunity to blend our respective strengths. We are confident that this collaboration will foster innovation and drive the production of high-quality oligonucleotide therapeutics."

Source : Asahi Kasei

AKUMS DRUGS INTRODUCES DCGI APPROVED MEDICATION FOR HYPERTENSION

Pharma major Akums Drugs and Pharmaceuticals has introduced Amlodipine, Telmisartan & Metoprolol (ER) Film Coated Tablets, a fixed-dose combination (FDC) medication for the management of uncontrolled essential hypertension with stable coronary artery disease. This FDC integrates the therapeutic benefits of three well-established medications into a single, convenient tablet, offering a comprehensive approach to blood pressure control.

With the approval from the Drugs Controller General of India (DCGI), Amlodipine, Telmisartan & Metoprolol (ER) Film Coated Tablets represent an advancement in cardiovascular care. "This new FDC embodies our commitment to improving patient outcomes and enhancing the quality of life for individuals battling hypertension," states Sandeep Jain, MD, Akums Drugs and Pharmaceuticals. Hypertension, a pervasive health challenge associated with significant mortality and long-term morbidity, remains a formidable obstacle in healthcare worldwide. As a major risk factor for vascular diseases such as cerebrovascular disease, ischemic heart disease, cardiac failure, and renal failure, hypertension's impact on global health cannot be overstated.

By combining the therapeutic benefits of calcium channel blockers, angiotensin II receptor antagonists, and beta-adrenergic blockers, this FDC offers a comprehensive approach to blood pressure control. "We believe that this formulation has the potential to improve the way we manage hypertension" adds Sanjeev Jain, MD, Akums Drugs and Pharmaceuticals. The individual mechanism of action of each component contributes to the FDC's efficacy in hypertension management. Amlodipine, by blocking voltage-dependent L-type calcium channels, induces vasodilation and decreases vascular smooth muscle contractility, thereby lowering blood pressure. Telmisartan selectively inhibits the angiotensin II AT1 receptor subtype, promoting blood vessel relaxation. Metoprolol (ER), a cardio-selective beta-1-adrenergic receptor inhibitor, reduces cardiac output through negative inotropic and chronotropic effects.

Single-pill triple combinations of different classes of drugs with complementary mechanisms of action help to treat patients to a goal with improved efficacy and better adherence to treatment. Thus, this fixed-dose of triple medications used as a single pill will improve patient's dose compliance leading to better long-term BP control.

Source : Akums

LANXESS ION EXCHANGE RESINS USED IN HYDROGEN PRODUCTION

LANXESS has developed special ion exchange resin grades within its Lewatit UltraPure range that are suitable for water treatment in PEM electrolysis. The company recommends its Lewatit UltraPure 1242 MD, 1212 MD, and 1295 MD ion exchange resins, which are optimized for this application, to ensure low TOC (Total Organic Carbon) levels. PEM technology employs several water circuits, and fresh water is continuously introduced to compensate for water loss during hydrogen production.

Demineralized water is used as process water, as the membrane would suffer severe damage in a very short time due to minerals and other impurities. For instance, in 100 MW PEM systems, approximately 6,000 to 7,000 cubic meters of process water are circulated per hour and require adequate treatment.

Operating temperatures range between 50°C and 70°C during the process. This can release metallic and organic impurities from system components. For stable hydrogen production and an economical service life of the PEM stack, it is essential to constantly minimize these impurities. LANXESS has designed a special process water treatment using Lewatit UltraPure resins in combination with UV light.

To stabilize the water cycle quality, a partial flow of around 3–6% of the total water volume is continuously purified in a polisher unit. LANXESS recommends an upstream UV lamp to oxidize organic matter (TOC), followed by a combination of anion and cation exchange resins and a final polisher filter.

LANXESS's Liquid Purification Technologies (LPT) business unit is in talks with renowned gas producers to establish standards for efficient water treatment in PEM electrolysis plants. Hans-Juergen Wedemeyer, Technical Marketing Manager at LPT, explained: "Our technical expertise, combined with our high-performance ion exchange resins, support the water purification process for systems. Preliminary application test results enable the plant conditions to be simulated and the state-of-the-art Lewatit UltraPure ion exchange resins to be optimally used. LANXESS is thus supporting a sustai able, climate-frienly energy supply."

Source : Hydrogen Take World

SK CHEMICALS INTRODUCES 'CIRCULAR RECYCLE' TECHNOLOGY AND SOLUTIONS IN CHINAPLAS 2024 FOCUSING ON "CIRCULAR ECONOMY"

SHANGHAI and SEONGNAM, South Korea, April 22, 2024 /PRNewswire/ -- SK chemicals (CEO Jae-Hyun Ahn) announced on the 22th that it will participate in Chinaplas 2024, which will be held from 23rd to 26th April in Hongqiao, Shanghai, China, at the National Exhibition and Convention Center (NECC).

Chinaplas is recognized as one of the top three global chemical industry exhibitions alongside NPE in the United States and K Trade fair in Germany, and is considered the largest exhibition in Asia. This year's exhibition is known to have participation from approximately 4,000 companies from over 150 countries.

At this exhibition, SK chemicals has prepared an booth where visitors can experience solutions for a sustainable future under the slogan 'Greening The Globe: On hand solution for a sustainable tomorrow.'

The exhibition hall is designed to showcase the process of plastic waste generated in cities being reborn as recycled raw materials through SK chemicals' 'circular recycle™' technology, and these materials being transformed into various products once again. SK chemicals' circular recycle has garnered significant attention from industry stakeholders as the world's first commercially viable chemical recycling technology. SK chemicals plans to showcase a wide range of circular recycling product portfolios by successfully achieving vertical integration from monomers, polyesters, to copolyesters through circular recycling technology.

In addition to its circular recycle solution, SK chemicals will display a wide range of sustainable material product categories and already commercialized products using these materials. Various global brand products such as cosmetics, appliances, and household goods incorporating ECOTRIA CR will be exhibited, along with final products successfully commercialized through the application of recycled materials, such as tires and bottled water Samdasoo Reborn with SKYPET CR.

SK chemicals has presented a diverse lineup of recycled and recyclable materi-

als that can be selected according to the needs of end users, including ECOTRIA CR, a chemically recycled Copolyester, SKYPET CR, a chemically recycled PET, and ECOZEN Claro, a copolyester that can be classified and recycled within same stream as PET after use.

Furthermore, SK chemicals will also exhibit various bio-based materials, including ECOTRION, a bio-based polyol using industrial starch as raw material for products such as spandex, synthetic leather, and polyurethane elastic materials; ECOTRIA, a copolyester with a mixture of substances extracted from corn and other biomass, suitable for various applications such as cosmetics, food packaging, and appliances, based on its transparency and chemical resistance.

President Jae-Hyun Ahn of SK chemicals stated, "Chinaplas will be an important milestone for SK chemicals to introduce its unique circular recycle solutions to the world," and added, "Through this exhibition, we will establish ourselves as a leading company in driving the circular economy by promoting the necessity, advantages, and competitiveness of circular recycling to the industry and brand owners."

Circular recycle™ refers to SK chemicals' chemical recycling method. Unlike mechanical recycling, which involves crushing and washing plastic waste into raw materials for plastic reuse, chemical recycling breaks down plastics into molecular units and reuses them as raw materials for plastics. This method allows for infinite recycling without compromising product quality, such as transparency. By utilizing SK chemicals' circular recycling solutions, various forms of plastic waste, including transparent bottles, films, trays, etc., can be recycled to their original application.

Source : SK chemicals

SONGWON PRESENTS ITS HIGH-PERFORMANCE ADDITIVES AT NPE 2024

Ulsan, South Korea – April 22, 2024 – Songwon Industrial Co., Ltd., one of the largest manufacturers of polymer stabilizers in the world and a key global specialty chemicals player is demonstrating its leading role as an innovative, reliable supplier of high-performance additives for the plastics industry at the National Plastics Exhibition (NPE) 2024 from May 6th -10th. At Booth S11203, visitors can explore SONGWON's comprehensive range of high-performance additives that protect a wide range of polymers and end-products, particularly against the degrading effects of high temperatures and solar radiation.

"Base polymers can be highly susceptible to oxidation, heat, light and other environmental factors, which can greatly affect their stability during processing as well as their long-term performance, especially in demanding applications. However, our specialized stabilization products are specially designed to counteract these effects and increase the durability of polymers," said Robert Seeley, Senior Sales Manager for Polymer Stabilizers at SONGWON in the Americas. "SONGWON's backward integration and strong local presence in the U.S. which includes a major, state-of-the-art plant ensure supply security and exceptional technical support for our customers. We are pleased to be showcasing our broad portfolio of innovative stabilizers at this year's NPE and most importantly, highlighting SONGWON's commitment to plastics industry customers."

Meeting customer needs

SONGWON has a long history of innovation which has been driven by closely listening to customers and transforming their needs into consistent, high-quality additive products. Through advanced technology and increased production capacity, we've expanded our product range to help plastic suppliers and converters to meet diverse challenges across competitive markets. SONGWON manufactures a full range of primary, secondary and thioester antioxidants (AO), UV absorbers (UVA) and hindered amine light absorbers (HALS) in solid and liquid forms. Latest additions include SONGNOX® AO and SONGSORB® UVA products that offer more advanced performance properties compared to others in the market.

Enhanced hydrolytic stability

Enhancing hydrolytic stability, SONGNOX® 9228 is a secondary diphosphite-based antioxidant that overcomes the limitations of conventional phosphite or phosphonite AO products by enhancing the resistance of polyolefins to oxidative corrosion, especially at high processing temperatures. Furthermore, the new antioxidant delivers excellent color protection in Cr-type high-density polyethylene (HDPE), polypropylene (PP) and engineering resins.

SONGNOX® 9228 blends well with primary antioxidants and other stabilizers. As a modified version with a small fraction of tri-isopropanol amine, SONGNOX® 9228T brings these valuable performance features to SONGWON's solid phosphite product range which are ideal for masterbatch suppliers. Both AO grades are ideally suited for a wide range of packaging, agriculture, building & construction as well as home & personal care applications.

Extended service life

SONGSORB® 1164 is one of the latest additions to SONGWON's UVA offering and a complement to SONGWON's triazine-based UV absorbers for polymers portfolio. Compared to conventional benzotriazole products, it can extend the service life of end-products made from polyolefins and engineering plastics exposed to outdoor weathering. SONGSORB® 1164 was specially developed to maximize the UV stability of polyolefins intended for use in food-contact packaging applications.

Focus on sustainability

At NPE 2024, SONGWON will also present several specialized additive solutions, such as its SONGNOX® binary blends of primary and secondary antioxidants, which enhance the process and application stability of mechanically recycled and bio-based polymers without compromising their sustainability. Additional highlights will include an innovative range of stabilizers designed to optimize the performance, efficiency and sustainability of coatings for numerous different polymer substrates. These include the SONGSORB® CS 400 series of UV absorbers and SONGSORB® CS AQ01 HALS for waterborne coatings, both based on advanced hydroxyphenyl triazine (HPT) technology.

SONGWON's global and local specialists will be at NPE 2024, Booth S11203 from May 6th -10th and look forward to discussing how SONGWON's high-performance additives and services can help you optimize the value and sustainability of your products.

Source : Press Release Finder

NEW PRODUCTS

ACCELERATING THE HEARTBEAT OF EMOBILITY: BASF ENGINEERING PLASTICS FOR DURABLE AND POWERFUL ELECTRIC MOTORS

- **Extensive, globally available material portfolio is complemented by local expertise for design, simulation, application development and parts testing**
- **Demonstrator of integrated electric motor and inverter shown on BASF booth at Chinaplas 2024, Shanghai**

The electric motor is the heart of any electric vehicle, be it battery, fuel cell, hybrid, or plug-in. For the development of safe, efficient, durable and powerful e-motors, BASF offers a unique co-creation partnership to the automotive industry: an extensive portfolio of engineering plastics is the basis for design and engineering expertise, Ultrasim® simulation and parts testing through to the support of serial production of the final application. Backed by BASF's deep understanding of e-motor challenges, customers can develop next generation e-motors while at the same time meeting production targets and market expectations for energy-efficiency, recyclability and low product carbon footprint (PCF). BASF's broad material offering for e-motor applications can be experienced first-hand at the BASF booth at Chinaplas 2024, Shanghai where a demonstrator of an integrated e-motor and inverter will be exhibited.

As a global partner to automotive suppliers and OEMs, BASF is committed to advance e-motor development globally while supporting customers locally with R&D, application development and material supply in high, consistent quality. The BASF portfolio for e-motor applications includes tailored plastics for key requirements such as

- EMI shielding
- long service life
- high voltage insulation
- thermal management
- hydrolysis and chemical resistance
- high mechanical load
- weight reduction
- noise, vibration, harshness (NVH) reduction.

Thus, the size and the weight of e-engines can be further reduced while fostering functional integration and withstanding harsh environments of higher voltages, elevated temperatures and aggressive cooling fluids. This applies to applications like

- housings for motor and inverter
- stator/rotor

- busbars, IGBTs, high-voltage connectors
- slot liners
- components in contact with oils and cooling fluids
- bearing cages
- magnetic encapsulation, engine mounts.

All these parts can work reliably and energy-efficiently thanks to BASF's diverse material classes of engineering plastics:

- Ultramid® (PA: polyamide)
- Ultradur® (PBT: polybuthylene-terephthalate)
- Ultrason® (PESU/PSU/PPSU: polyarylethersulfones)
- Ultramid® Advanced (PPA: polyphthalamide).

They are characterized by a broad property profile, covering superior features like very good temperature and media resistance, excellent mechanical strength, exact electric compatibility, high purity and tailored flame retardance. The compounds are available in different colors, from colorless to orange and laser-markable black, with short-glass, long-glass or mineral fiber reinforcement, and with various heat stabilizers. The BASF high-performance thermoplastics for e-motor parts can be easily processed in injection molding so that no post-processing is needed. They are weldable and offer a high freedom of part design for different construction needs.

Source : BASF

CLARIANT LAUNCHES NEW CATOFIN® 312 PROPANE DEHYDROGENATION CATALYST

- Clariant's latest propane dehydrogenation (PDH) catalyst enhances already proven performance of previous CATOFIN offerings
- New CATOFIN 312 is engineered to provide further gains in selectivity

- Producers could see boosts in productivity of up to $20 million over the lifetime of the catalyst and up to 20% improved longevity

MUNICH, APRIL 18, 2024 – Clariant, a sustainability-focused specialty chemical company, announced the launch of CATOFIN 312, its latest propane dehydrogenation catalyst. The new catalyst delivers greater selectivity and up to 20% longer life. Thanks to its increased productivity, a typical 600 KTA PDH facility could realize up to $20 million in additional profits over the life of the catalyst, providing a compelling value proposition for customers seeking to maximize returns.

Together with Clariant's digital service portal CLARITYTM, customers can further improve catalyst-related plant performance with 24/7 access to their real-time catalyst performance data, advanced visualization, analysis, and monitoring tools. The service is offered across all Clariant catalyst applications, and has helped optimize plant performance parameters regarding efficiency, sustainability, and safety.

Jens Cuntze, Business President Catalysts at Clariant, commented, "With the introduction of CATOFIN 312, we have accomplished yet another key milestone in our state-of-the-art catalyst technology. Our firm commitment to innovation allows us to further increase performance of our catalysts for our customers in the propylene industry."

CATOFIN is a globally-leading catalyst technology for producing olefins such as propylene, isobutylene, and butylene/butadiene. Due to its excellent productivity and high reliability, CATOFIN technology has been chosen for numerous PDH plants worldwide. The CATOFIN process combines Clariant's tailor-made catalysts and Heat Generating Material (HGM) with Lummus's advanced process and is among the fastest growing technologies for producing propylene. Since 2017, CATOFIN has been selected for 40 new projects around the world.

Source : Clariant

SUMITOMO CHEMICAL COLLABORATES WITH STAR JEWELRY TO CREATE NEW VALUE WITH ITS SUSTAINABLE ACRYLIC MATERIAL MEGURI®

Sumitomo Chemical Co., Ltd. provides a sustainable acrylic material Meguri® produced by using its chemical recycling technology, for a new acrylic jewelry collection of Star Jewelry Co., Ltd., headquartered in Yokohama City, Kanagawa Prefecture, Japan. The collection is now available in Star Jewelry's stores nationwide in Japan* as well as the brand's online store. This collaboration marks the first time that 100% recycled acrylic material has been used for jewelry in Japan.

*Excluding the Gotemba Premium Outlets store.

Star Jewelry was founded in Motomachi, Yokohama, in 1946, and is known as the first brand to offer a full line of earrings in Japan. In the spirit of brightening customers' lives and delivering happiness, the company has created a multitude of unique and high-quality items with a commitment to exquisite craftmanship. Star Jewelry is also engaged in corporate social responsibility activities that contribute to enriching society through the development and sale of jewelry. The collaboration with Sumitomo Chemical to develop jewelry using sustainable material is part of the efforts.

Sumitomo Chemical has been working to develop chemical recycling technology for plastics. The company constructed a pilot facility for the chemical recycling of acrylic resin (polymethyl methacrylate or PMMA) at its Ehime Works in Niihama City, Ehime Prefecture, Japan, in December 2022, and is now stepping up technical verification and marketing efforts, with the aim of bringing the chemically recycled PMMA SUMIPEX® Meguri® to market at scale in fiscal year 2025. This sustainable material, using raw material obtained by breaking down used acrylic resin by chemical recycling technology, provides the same level of high transparency as acrylic resin using raw material made from fossil fuel, and contributes to reducing CO2 emissions and mitigating environmental impact throughout its product life cycle.

The Sumitomo Chemical Group has made contributing to reducing environmental impact one of the material issues that it addresses as management priorities, and has been working on plastics recycling, including chemical recycling. The Group will expand the lineup of Meguri®, its brand for plastic products obtained through recycling technology, and continue striving to help achieve a circular economy.

Kumi Nagai, Managing Director of Star Jewelry, made the following statement. "Our acrylic jewelry collection is a special series among our products that particularly emphasizes craftmanship. What makes Sumitomo Chemical's sustainable acrylic material attractive to us is that it is made from 100% recycled raw material and at the same time it is as high-quality as standard acrylic materials for jewelry, in terms of both transparency and durability. These features that Meguri® offers exactly match Star Jewelry's philosophy of uncompromising commitment to excellence in manufacturing. Additionally, this is the first time that 100% recycled acrylic material has been used in jewelry in Japan. We have always been at the forefront of proposing the latest trends, designs and technologies in this industry, and are extremely pleased about this collaboration with Sumitomo Chemical."

Source : Sumitomo Chemical

SIEGWERK AND BOROUGE COLLABORATE TO DEVELOP FULLY RECYCLABLE MONO-MATERIAL SOLUTIONS TO ADVANCE CIRCULAR ECONOMY

Siegwerk today announced its partnership with Borouge, a leading petrochemicals company that provides innovative and differentiated polyolefins solutions, to co-develop 100% recyclable mono-material solutions to further

drive packaging design for a circular economy. The goal of the collaboration is to build a pipeline of solutions enabling converters worldwide to produce advanced mono-material packaging, addressing the growing demand for sustainable packaging in the market.

"The majority of flexible packaging still consists of mixed materials and because of this multi-material structure, it is challenging to recycle it in the conventional recycling streams," explains Dr. Stephane Bertaux, Head of Brand Owner Collaboration and Circular Economy for Southeast Asia at Siegwerk Thailand. "Here, the switch to mono-material packaging is an essential lever to ease the recycling of packaging and thus enhance its circularity."

However, moving to mono-material structures is also accompanied by several challenges, such as ensuring reliable sealability, certain mechanical properties or thermal stability or realizing specific levels of barrier performance depending on the end-use application. "Enabling mono-material structures using Borouge's performance polyethylene products with the combination of innovative ink and coating technologies can achieve the desired packaging outcomes. With this new way of industry collaboration, we contribute to addressing global challenges to increase sustainability and circularity. Upcycling is becoming possible through mechanical recycling, resulting in high quality recyclates to further boost circularity and lower carbon footprint versus currently used multi-material packaging, which are mostly incinerated," adds Anton Wolfsberger, Vice President, Global Marketing, Packaging and Circular Economy, Borouge Pte Ltd.

One of the first co-development projects between the two partners will be a barrier stand-up pouch using Borealis Borstar® technology-based enhanced HDPE FB5600 from Borouge and Siegwerk's oxygen barrier coating CIRKIT OxyBar BC1582 as well as its primer solution CIRKIT Clearprime for a smooth deinking of the laminates. "By incorporating our special deinking and delamination primer into this innovative mono-material structure with superior performance and mechanical properties, all used inks and coatings can be removed of the printed film during the recycling process resulting in high-quality recycled polyethylene that is suitable for re-use in new packaging materials," says Bertaux.

In addition, Siegwerk and Borouge are already collaborating with selected converters worldwide to make solutions available to produce high barrier mono-material packaging combining oxygen (Oxygen Transmission Rate OTR < 1 cc/m2.day) and Moisture Vapor Transmission Rate (MVTR) barrier coatings (MWTR < 1 cc/m2.day).

Both partners are committed to contribute to sustainable and future-oriented packaging through enabling mono-material structures that can replace today's hard-to-recycle multi-material packaging structures. While Borouge already offers a wide range of virgin polyolefins such as polyethylene and polypropylene specifically developed in regard to their recyclability, Siegwerk offers a variety of innovative ink and coating solutions that can improve the recyclability of plastic packaging without compromising on the performance and productivity required. By joining their forces, the two companies are once again underlining the importance of collaboration along the packaging supply chain to develop suitable solutions that can truly make a difference in accelerating the transformation to a Circular Economy.

Source : Siegwerk

HEUBACH PARTNERS WITH EVONIK TO PIONEER ECO-FRIENDLY INK SOLUTIONS IN CHINA

Shanghai – Heubach Group and Evonik Coating Additives have announced the establishment of a joint technical platform dedicated to the advancement of the printing industry. This technology collaboration aims to combine the technical expertise of both companies to explore and develop solutions for environmentally friendly printing inks including inkjet printing solutions.

The joint labs are located at both Heubach's and Evonik's facilities in China. Heubach will contribute with its vast experience in pigment and colorant technologies, offering a comprehensive portfolio of ink pigment solutions designed for optimal performance in a variety of ink applications. In parallel, Evonik will bring its extensive expertise in additive technologies tailored to enhance the

properties of inks for traditional printing and digital inkjet printing.

"Heubach has always been at the forefront of pigment innovation, and this partnership with Evonik enables us to push the boundaries even further," Gary Gu, SVP Sales of AMEA & GM of Greater China commented on this collaboration, "Together, we are setting a new standard for performance and sustainability in the printing and digital printing market."

"We are excited to join forces with Heubach for printing ink technologies," said Courtney Thurau, Head of Printing Ink Market Segment, Evonik Coating Additives. "This partnership underscores our commitment to sustainability and our focus on collaborative innovation. By pooling together our resources and expertise, we will accelerate the development of advanced, environmentally friendly ink systems that meet the evolving needs of the printing industry."

The development of environmentally friendly ink solutions has been making significant progress driven by growing environmental awareness and stringent regulations on volatile organic compounds (VOCs) and other hazardous substances. The collaboration between Heubach and Evonik is a response to the increasing demand for sustainable printing products. The joint technology platform will not only focus on the technical development of new products but also provide comprehensive support to customers.

Source : Heubach

INTERNATIONAL NEWS

DOW PERSONAL CARE UNVEILS CUTTING-EDGE INNOVATIONS PROMOTING SKIN AND HAIR WELLNESS AT IN-COSMETICS GLOBAL 2024

MIDLAND, Mich. – April 15, 2024 – Dow (NYSE: Dow) will unveil its latest innovations at in-cosmetics Global in Paris, France, from April 16-18 (booth 1L80). Showcasing product launches promoting skin and scalp wellness through skin microbiome-friendly certified ingredients, Dow will introduce three concept collections for a complete skin, make-up, and hair care routine, along with offering an exclusive preview of four DOWSIL™ products, marking the pioneering carbon-neutral silicone elastomer blends.

New Collections Include:

Dermocosmetics Concepts Collection, featuring 30 Dow products carefully chosen for their ability to address specific skin and scalp conditions.
Hair Care Concepts Collection, emphasizing formulations that are sustainable, deliver shine, and align with key industry trends.
Make-up Concepts Collection, designed with higher than 90% natural origin content formulations for a complete make-up routine.
"We believe in delivering the performance you love and the safety you trust through cutting-edge scientific innovations, which enable us to orchestrate customer success in the personal care industry," said Isabel Almiro do Vale, Global Strategic Market Director of Dow Personal Care. "With three exceptional collections tailored to different categories, we are prioritizing healthy skin with skin microbiome-friendly certified ingredients. Additionally, we are accelerating our journey towards a low carbon economy, providing an exclusive glimpse of the launch of the first Carbon-Neutral Silicone Elastomer Blends PAS 2060 certified for skin and make-up applications. This release underscores our commitment to both performance and sustainability, reinforcing our responsibility to meet the evolving needs of our customers and the planet."

Additionally, Dow will debut the promotion of its skin microbiome-friendly ingredients which have been recently certified by MyMicrobiome AG, including the first skin microbiome-friendly certified silicone technologies in the industry. These ingredients that respect the skin's natural microbial balance are featured the Dermocosmetics Concepts Collection.

Dow scientists will also host a live for-

mulation masterclass on April 18 at 9:30 am in Lab 1, demonstrating the creation of "Revitalize My Face," a gentle and moisturizing night cream tailored for sensitive, dry-prone skin. This water-in-oil emulsion features four of Dow's skin microbiome-friendly ingredients.

Source : Dow

IN-COSMETICS GLOBAL 2024: WACKER SHOWCASES SILICONE FORMULATION FOR WATER-SAVING HAIR-CARE PRODUCTS

Munich, Apr 15, 2024 WACKER is all set to present a range of selected silicone products for cosmetics and hair-care applications at this year's in-cosmetics Global. The spotlight will be on the silicone elastomer gel BELSIL® EG 3000, the gum blend BELSIL® GB 3010 and the biomethanol-based BELSIL® eco EG 3001 and BELSIL® eco DM 3096. At the "Sensory Bar", another highlight this year, WACKER will be showcasing a formulation for water- and energy-saving leave-in hair lotions that no longer need to be rinsed out after shampooing. This year's edition of in-cosmetics Global will be held in Paris, France, from April 16 to 18.

Conditioners are very popular, especially among those who prefer wearing longer hair. After treatment, the hair feels soft and silky and is easy to comb. Conditioners are usually applied after shampooing and rinsed out after a few minutes. This not only takes time, but also increases water and energy consumption.

At in-cosmetics Global, WACKER intends to reveal other options. The company will be presenting a formulation for leave-in hair care products for the very first time. In contrast to conventional hair con-ditioners, leave-in products remain on the hair. "Consumers may initially need some time getting used to it," says hair-care specialist Gerhard Beer, referring to common consumer habits. "For many, shampoos and rinse-off conditioners are part of their regular care ritual."

On the other hand, cosmetics manufacturers continue to increase their focus on sustainability and conserving natural resources. "Leave-in conditioners that remain on the hair and are not rinsed off are much more sustainable," explains the silicone expert. "Firstly, these products have excellent care properties. Secondly, water and energy consumption in the shower can be significantly reduced by using such hair-care products. More than anything, you save time because you don't have to rinse your hair at all."

The formulation that will be on display at in-cosmetics Global essentially consists of the gum blend BELSIL® GB 3010 and the silicone emulsion BELSIL® DADM 3240 E. This is the first time that both products have been combined in this form: BELSIL® GB 3010, a gum blend which is frequently used in anti-split-end fluids, gives damaged hair a well-groomed appearance. BELSIL® DADM 3240 E, an emulsion that envelops the hair, ensures a good soft feel, good combability and long-lasting protection. A perfect match, so to speak.

Silicone Elastomer Gels with Organic Solvents

The second highlight at the company's booth are BELSIL® EG 3000 and BELSIL® eco EG 3001, which was recently awarded the Fountain Award for sustainable products at PCHi 2024. WACKER pursues an alternative formulation concept for these two silicone elastomer gels. Instead of a siloxane-based solvent, the products contain organic substances that are commonly used in the cosmetics industry. BELSIL® EG 3000 is formulated with the organic solvent isohexadecane, while BELSIL® eco EG 3001 contains a mixture of undecane and tridecane. Isohexadecane is biodegradable to a limited extent. Undecane and tridecane are fully degraded by microorganisms in the environment. Laboratory tests show that, in terms of their properties and performance, the new gels are virtually equal to siloxane-based products.

BELSIL® eco EG 3001 offers another advantage. As indicated by the suffix "eco," the gel is manufactured using raw materials from renew-able sources. The methanol in the production of siloxane is 100 per-cent plant based. The solvent is likewise obtained from renewable raw materials. This makes BELSIL® eco EG 3001 a resource-con¬serving, ecologically beneficial alternative to silicone elastomer gels based on fossil raws.

New Gum Blends for Hair Care

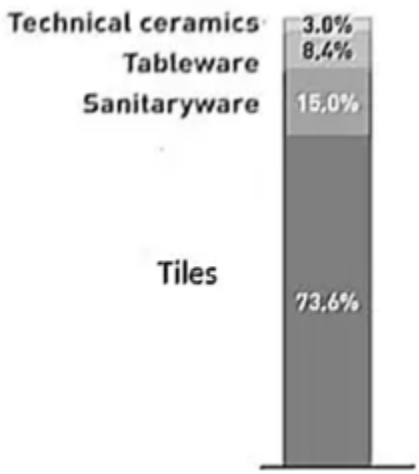
At in-cosmetics 2024, the spotlight will also be on the gum blend BELSIL® eco DM 3096. Due to its conditioning properties, the blend is likewise suited for formulating hair-care products. Treatment with such products gives rise to smooth, shiny hair. Damaged hair can attain a natural, healthy appearance. BELSIL® eco DM 3096 is based on biomethanol and thus a resource-conserving version of the established gum blend BELSIL® DM 3096. As with all of WACKER's BELSIL® eco products, their manufacture is certified to the REDcert² standard.

Source : Wacker

Continued from Pg 30

Crores per annum, constituting 7% of the globalproduction, the key export markets include the Middle East and Europe.

Other Ceramic Products



The above figure shows the use of ceramics in various segments. Sanitaryware, tableware, and Technical Ceramics constitute the balance of the Ceramic production.

Sanitaryware - Categorized into 4 segments, basic, standard, premium, and luxury, the organized sector has a share of 10%, 25%, 100%, and 100% respectively. Major players are Cera, Hindware, Johnson, Neycer, Toto, and Kohler.

Tableware - Primarily in the unorganized sector.

Technical Ceramics - Ceramics have excellent electrical insulation properties and offer thermal stability. Hence they are used in Electrical Insulators, capacitors, and resistors. They also find applications in automotive catalytic converters, spark plugs, and the lining of furnaces and reactors. It is at a nascent stage in India for electronic applications.

Future Outlook

With India poised to grow at a CAGR of 7 %, the government has prioritized " Housing for All " and "Swacch Bharat" schemes. The Tile and Sanitaryware segments are set to grow at a CAGR of 8%. This will give rise to more clusters akin to Morbi. Furthermore, demand is expected to rise in the renewable energy sector for dielectric materials in high-energy storage capacitors.

New Technologies

To maintain competitiveness, the ceramic industry is embracing new technologies. Some of the Ceramic industry trends on this subject are given below :

Nano Technology - Renders tiles dirt and bacteria-resistant. Suitable for applications such as floor tiles in hospitals, food processing plants, and laboratories.

3-D Printing - Utilized for wall and outdoor cladding, emerging as a statement of style.

Large-size tiles - Enhances productivity and reduces cost.

Other Issues

There are several issues facing the ceramic industry, the most notable among them are:

- Rising raw material costs.
- Cheap Imports from China.
- High fuel costs and lack of reliable power supply
- Environmental issues related to air and water pollution and solid waste disposal.
- Lack of skilled manpower. Workers are vulnerable to occupational health hazards and are prone to developing silicosis in their working lives.

Conclusion

The **History of Ceramics** dates back to many centuries. Tiles and ceramics have long been essential elements in architectural and interior design. With advancements in technology and manufacturing processes, the range of available styles, colors, and textures has expanded exponentially, allowing designers and homeowners alike to tailor spaces to their unique preferences. With their excellent thermal stability, mechanical robustness, and chemical inertness, ceramics will find their use in future technologies yet to be discovered.

Source : Team Chemical Market

Breaking Boundaries Sustainable Oleochemicals

Introduction

Oleochemicals have quietly become indispensable in our modern lives. Their origins are rooted in the agricultural bounty of the earth, they are the backbone for an array of industries. They silently facilitate the production of goods that grace our shelves and fill our homes. Outcome of green chemistry that aims to adopt cleaner technologies that address environmental and health challenges, they are also economically viable alternatives. Classified as Biodegradable chemicals, they find diverse applica-

tions across various industries.

Description

Oleochemicals are derived from natural oils and fats, typically of plant or animal origin. These are obtained from palm, coconut, soybean, rapeseed, and tallow. Due to their origin, they are classified as Biodegradable chemicals.

Commonly known as Oleochemical derivatives they include :

Fatty Acids: They serve as the fundamental building blocks of Oleochemicals, obtained by hydrolyzing triglycerides found in oils and fats. They find applications in soaps, detergents, personal care products, and food additives.

Glycerin (Glycerol): A versatile compound, it is a by-product of triglyceride hydrolysis. It is used in cosmetics, pharmaceuticals, and food products. Glycerin acts as a humectant that attracts and retains moisture from the surrounding environment, making it valuable in moisturizers and lotions that prevent dryness of the skin.

Fatty Alcohols: Produced by the hydrogenation of fatty acids or reduction of fatty acid esters, these are utilized in the production of lubricants and also as raw material for the chemical industry. Additionally, they are employed in the formulation of emollients. These substances soften and smoothen the skin, filling the gap between skin cells, thus improving texture and aesthetics. Another important use is in the production of surfactants, that reduce surface tension between two substances, thus finding application for both industrial and domestic cleaning products.

Esters: Formed by the reaction of fatty acids with alcohols, they find applications in lubricants, solvents, and fragrance ingredients. Additionally, they are also used as plasticizers, which is an additive in PVC (Polyvinyl Chloride) production. They improve the flexibility, durability, and workability of plastics and reduce the stiffness of the material making it easier to mold, shape, and process. They form important constituents in the manufacture of pipes, cables, flooring, and packaging materials.

Market Scenario

Presently the Indian Oleochemicals market is estimated at Rs 14,000 Crores and slated to grow at a CAGR of 3.7 % until 2029. The major drivers are the Personal care, food, and polymers industries. Key players in India include :

- VVF India Ltd
- Godrej Industries Ltd
- 3F Industries Ltd
- Indo Amines Ltd
- Universal Bio-Fuels Ltd
- Oleochem India Pvt Ltd

Region-wise Western India leads in market share in terms of value. Urban centers Of Mumbai, Pune, and Ahmedabad dominate consumption due to a large consumer base and awareness of eco-friendly products.

Present and Future Outlook

Oleochemicals are preferred for their Eco-friendliness, Biodegradability, and sustainability serving as viable alternatives to their petrochemical-based counterparts. Three important sectors where Oleochemical market trends can be observed are given below :

Pharmaceutical and Personal Care: The ingredients being plant-based, facilitate drug formulation and delivery. There is continuous research being done in this area, which will finally lead to better therapeutic outcomes. Growing awareness favors demand for Oleochemical-based formulations in soaps, shampoos, and lotions due to their skin-friendly qualities. This is one of the major growth areas for the future.

Food industry: Oleochemicals play various roles in foods such as flavor enhancers and texture modifiers. They are used in bakery, confectionery, and dairy products thus replacing chemical-based compounds used earlier. Omega-3 fatty acids which contribute to heart health and well - are also derived from Oleochemicals. Another vital role is the enhancement of the shelf life of food products, which results in reduced food waste and higher consumer satisfaction. An uptick in demand is predicted in the future.

Polymer Industry: Extensive research is presently being conducted for the replacement of plastics, as their detrimental effects on the environment are well known. Petroleum-based polymers have resulted in greater affordability, resulting in a more convenient lifestyle. However, we grapple with their safe disposal and harmful after-effects that could linger on for generations. Oleochemical-based bio-polymers like polyhydroxyalkanoates (PHA) and polylactic acid(PHA) have emerged as promising alternatives, with biocompatibility and biodegradability being crucial for successful substitutions.

Spreading awareness through Television and social media, in educational institutions is crucial to harnessing the benefits of Oleochemicals. Sustainable sourcing of raw materials, eco-friendly manufacturing processes, and the commitment by our Government to encourage the usage of bio-degradable materials will contribute to success in this field.

Conclusion

There is a pressing need to change the mindset of the population that has been used to a single-use, throw-away culture. From the humble origins of natural fats and oils, Oleochemicals have enabled the establishment of sprawling empires of modern industry, driven by ambition and innovation. However, it is imperative not to overlook the delicate balance that sustains our world. For every triumph of science, there exists a corresponding responsibility to safeguard the planet that nurtures us all.

Source : Team Chemical Market

Hindustan Phosphates Surging Forward Towards a Bright Future

Headquartered in Indore, the commercial hub of Madhya Pradesh, India, Hindustan Phosphates Pvt Ltd was established in 1990. This company, with a 34-year history, has flourished over time and gained renown for its high-quality products. Its commitment to excellence and dedication to innovation through research and development has been instrumental in achieving this reputation. Among its notable products are:

Sodium, Potassium, and Ammonia Phosphates

DCP (Dibasic Calcium Phosphate)

TCP (Tribasic Calcium Phosphate)

MCP (MonoCalcium Phosphate)

Calcium Carbonate

As India's leading manufacturer in its specialized market, the company's products are utilized across various sectors, including pharmaceuticals, food, agriculture, water treatment, and laboratory reagents. Industries such as food and pharmaceuticals demand exceptionally high-quality and pure products, which Hindustan Phosphates Pvt Ltd consistently delivers. The company holds ISO 9001, 14001, and 22000 certifications, underscoring its commitment to quality assurance. Its manufacturing facility in Pitampura Industrial Estate, M.P., adheres to rigorous manufacturing and quality control processes, ensuring the highest standards are maintained. Notable Indian and multinational companies count among their clientele, bolstering its reputation further. Additionally, the company holds certifications specific to certain countries, further attesting to its adherence to quality standards.

With India's projected growth at a CAGR of 7%, the aforementioned sectors are poised for increased demand for Hindustan Phosphates Pvt Ltd's products. Consequently, the company's future prospects are exceptionally bright.

Source : Team Chemical Market

The Invisible Shield Exploring the World of Biocides

Introduction

In our intricate world, we need to safeguard humanity from the threats of microbial foes. Biocidal products play a pivotal role in this accomplishment to control, mitigate, or eradicate harmful organisms. These can include bacteria, fungi, algae, viruses, and other microorganisms. Governed by Biocide regulations, these products find applications in disinfectants, preservatives, pesticides, and anti-fouling agents. This article delineates some important Types of Biocides and their applications, excluding those used in agriculture, namely pesticides and herbicides.

Description

The primary objective of Biocidal products is to prevent the growth and proliferation of unwanted organisms that can pose a risk to human health, animal health, or the environment. Biocides manifest in various forms including liquids, solids, gases, and impregnated material. Below are descriptions pertinent to important sectors in which they are utilized:

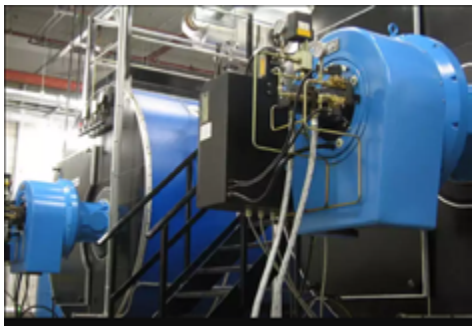
Healthcare

Alcohol-based, chlorine-based, and Quaternary ammonium compounds are employed to disinfect surfaces. They prevent the spread of infection through surfaces of medical instruments, equipment, etc in clinics, hospitals, and other healthcare settings. Alcohol-based sanitizers were extensively used during COVID-19 to curb the virus transmission.

Surgical instruments including gloves require a high degree of sterilization to

ensure they are free of harmful microorganisms. Ethylene oxide and hydrogen peroxide are commonly employed extending to certain critical pharmaceutical products.

Water Treatment



Biocides such as Chlorine, Chlorine - dioxide, and ozone are deployed for disinfecting drinking water, wastewater, and water used in swimming pools. Precise control of Biocides in water treatment is crucial especially in swimming pools, to prevent eye irritation. Excessive chlorine levels may render drinking water unpalatable.

Another significant area is the ubiquitous market for packaged drinking water. Indian standards IS 13428 (Packaged drinking water) and IS 14543 (Packaged mineral water) govern microbial tolerance levels. Currently estimated at Rs 92,000 Crores, it has witnessed a past compounded annual growth rate (CAGR) of 13 % CAGR and is projected to grow at a future CAGR of 10.3 %.

Food processing

The escalating consumption of processed foods due to lifestyle changes has led to increased Biocides usage in this sector. Foods are susceptible to contamination during manufacturing if disinfecting protocols are overlooked. Common sanitizers include chlorine-based compounds and peracetic acid, applied to food processing equipment, food contact surfaces, and utensils.

Additionally, Biocides are necessary to prolong the shelf life of the processed foods. Sodium nitrite and sorbic acid are widely employed to prevent spoilage and microbial growth.

Manufacturing

Water is used in numerous manufacturing industries for cooling and process requirements. A major problem is fouling on the surfaces of cooling towers, pipelines, and industrial equipment. Unwanted biological organisms such as algae, barnacles, mollusks, and bacteria attach themselves to surfaces exposed to water. This is termed as bio-fouling. It causes a range of problems, including reduced efficiency, corrosion, and structural damage. Copper compounds and organic compounds like tributyltin (TBT) are used as anti-fouling agents. They release the Biocide gradually over time, creating a toxic environment for the organisms, which prevents them from attaching to surfaces.

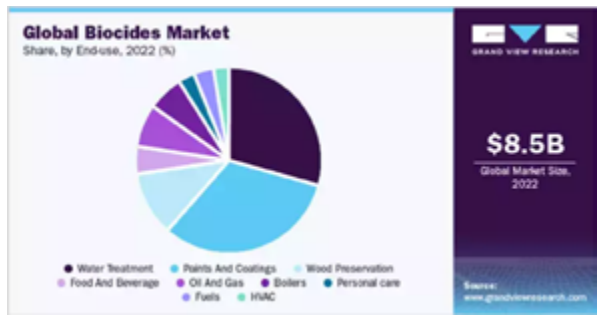
Anti-fouling agents work by either repelling fouling organisms or by inhibiting their attachment and growth on surfaces. They are commonly used in marine vessels, offshore structures, submerged equipment, and other underwater surfaces. As they are inherently toxic, their use is subject to Biocide regulations in some regions.

Biocides like QACs, Triclosan, silver-based compounds, and Zinc Pyrithione are used in textiles. They serve as anti-microbial agents, especially in products like socks and sportswear, where odor control is important.

Paints

Biocides incorporated into paints primarily aim to inhibit the growth of microbes such as bacteria, fungi, and algae on painted surfaces. They help maintain the aesthetic appeal of the paint by preventing discoloration, odors, and deterioration caused by microbial growth. Some commonly used Biocides are Isothiazolinones, organic acids like benzoic and sorbic acid, Quaternary Ammonium compounds (Quats), Triazines, Organometallic compounds containing Copper or Zinc, Pyrethroids, etc. Each one of them disrupts microbial cell functions differently, possessing a specific mode of action and efficacy. This enables paint manufacturers to customize formulations based on intended application and environmental conditions.

Market Scenario



The above illustration portrays the typical usage of Biocides in various segments. This could vary from country to country in various regions. In India, some of the notable manufacturers are Sidchem, Lanxess India Pvt Ltd, Dow Chemicals, Ecolab Inc., and Troy Corporation. As India is slated to grow at a CAGR of 7 %, there will be an increased demand in all the sectors primarily driven by awareness, better lifestyle, higher disposable incomes, etc.

Conclusion

The Environmental Impact of Biocides has long been a topic of discussion. Though subjective, it has resulted in some Biocides being banned in certain regions of the world. As we grapple with the implications of our inventions, we are confronted with the profound responsibility that accompanies our newfound knowledge. For in our quest to safeguard humanity from the ravages of microbial foes, we must tread with caution, mindful of the resulting unintended consequences.

Source : Team Chemical Market

Revolutionizing Pest Control BASFs New Advancement in Pesticide

If you had your meal, thank a farmer. This line has received so much attention in social media and otherwise. Although farming has been evolving and farmers have started adopting modern farming practices, there have always been some challenges in incorporating pesticides. Safety is one major challenge when incorporating pesticides in farming. Thus we understand that farming is both a complex and unpredictable business, where the farmer should thrive to meet the changing needs of the planet, consumers, retailers, food processors and regulators. In this article we shed some light on the new advancement in pesticide, made by BASF, that has won some of the challenges that stumble other pesticides in the market.

Farming – a job that involves a lot of strategies and challenges:

Consider some of the challenges found in modern-day agriculture:

Choosing the right pesticide for the crop, introducing it to the crops, or chances of over-reliance on pesticides and improper usage of pesticides may lead to the development of resistance in the pest populations.

Other than incorporating pesticides, other aspects make the job more complex. They include water scarcity, agricultural marketing, soil erosion, lack of high-quality seeds, pesticides that have harmful effects on humans and animals who eat the food out of those crops, water pollution, and other sustainability-related problems.

However, there are some solutions to all of these challenges. For instance, farmers should be educated on the usage of pesticides, they should implement IPM practices that add cultural and biological and chemical control methods. This cuts down on the reliance on pesticides and reduces the necessity of reliance on pesticides.

Similarly, farmers should learn to rotate pesticides with different modes of action and avoid using pesticides that are derived from the same chemical class or with the same mode of action repeatedly. Why is that so? It is because the pesticides exert strong selection of pressure on the target pests which could lead to survival and reproduction of individuals within the pest population. Over time, this could lead to the development of resistance among the pest population. What does that mean? Ineffective pesticide. Therefore experienced farmers would know that rotating pesticides is the right thing to do, this reduces the likelihood of resistance developing in pest populations, while preserving the effectiveness of pesticides.

This practice is termed tank-mixing or premixing.

The strategies involve right from crop selection, crop rotation, and integrated pest management that includes a combination of biological, cultural and chemical control methods to manage pests to soil management and weed management.

Overall farming is full of strategies and optimization to improve sustainability throughout and minimize environmental impact as well.

Safety- crucial in the development of pesticides:

Imagining the harm it causes, the impact it makes on human health, the environment, regulatory compliances and other concerns, they can potentially cause significant harm when not handled with care. Different kinds of pesticides are used for specific purposes. For instance, herbicides are used to control unwanted weeds, fungicides are used to control fungal infections in crops and insecticides are used to control insects.

Although pesticides are useful, they can be extremely harmful to human health as they can cause acute toxicity when someone is exposed to high levels of pesticides. It results in immediate symptoms such as nausea, vomiting, headaches, dizziness and even death.

Therefore pesticides with "unique target sites" are well-appreciated in the market, as the pesticides with specific target sites target the pests and not the other mammals and humans. However, it is also important that it should be effective enough on the pest population that has developed resistance to other insecticides.

Likewise, it should also have an environmental safety profile, which means it should reduce the amount of residue it leaves in the environment.

Celebrating BASF's new insecticide "Efficon" in India:

"Axalion Active" is the ingredient used in this newly developed insecticide "Efficon".

BASF with their new product "Efficon" has helped the farmers pursue redefining modern and sustainable pest control without compromising on efficacy and beneficial safety.

BASF has developed an insecticide that has a novel mode of action which makes it highly effective against a wide range of pests. Certain pests have de-

veloped resistance to certain pesticides, the product is proven effective even on those pests. This is because the insecticide works by interrupting the insect's octopamine receptors.

Now the Octopamine receptors are responsible for the insects' physiological processes such as their behaviour, metabolism, and reproduction. Axalion, the ingredient in the insecticide targets this neurotransmitter and disrupts the normal physiological functions of the insects leading to death.

Likewise, on their website, they have given how the product works in detail. The insecticide affects the chordotonal organs which are tiny sensory organs, that help with hearing, orientation and balance which are critical for the coordinated movement and survival of these insects.

For instance, consider these chordotonal organs: Antennae, Axalion affects the antennae where the insects lose the ability to climb, detect wind and courtship songs. Leg joints, Axalion affects leg joints thus making them lack coordination. Wing hinges, Axalion affects the wing hinges making the insect lose its ability to fly.

The ingredient is proven to be effective on a broad spectrum control:

- Whiteflies
- Aphids
- Leafhoppers/jassids
- Thrips
- Scales
- Mealybugs
- Psyllids
- Russet/rust mites (species-specific)

Additionally, the octopamine receptors are present only in insects, in other words, they are specific to the pests/insects and not found in mammals including humans. Therefore the specificity of the ingredient causes very little or no adverse effects on non-target organisms including humans and other beneficial insects.

It is found to be highly potent on multiple life stages due to the novel mode of action and they exhibit higher efficiency over the pests that have developed resistance to other pesticides. Therefore the Axalion classification under the IRAC group 36 makes it a valuable tool in sustainable pest control solutions. Now IRAC 36 classification system is unique because that has not been used in other pesticides before.

Key features and benefits of Axalion Active by BASF:

Flexibility in application timing:

Axalion Active possesses systematic properties which allow the farmers to have a wide window of application timing during early and late growth stages. It means that Axalion can be applied at different growth stages of the crop even from the early stages when the plants are just starting to grow.

Especially during the late growth stages, when the canopies are already closed, it would be challenging for farmers to reach target pests with the traditional contact pesticides. Thanks to Axalion's systemic properties. The systemic properties of Axalion refer to the ability of the ingredient to get absorbed by various kinds of plant tissues that are present in leaves, stems and roots. This property of the ingredient enables it to get dispersed throughout the plant and protect against pests even in hard-to-reach areas such as within the canopies.

Long-lasting residual control:
Axalion Active remains active within the plant for a long period and provides continuous protection against pests. This eradicates the need for multiple pesticide applications without compromising on the efficiency.

More information about the product – Efficon:

When Giridhar Ranuva, the Business Director of Agricultural Solutions of BASF India commented on the product, said that Efficon is highly compatible with non-targeted organisms and beneficial insects such as pollinators. However, the product should be used according to the label instructions. He also promised that the product would be effective on a wide variety of crops such as cotton and vegetables.

Conclusion:

Developing pests and bringing in advancements in them make the life of a farmer more comfortable. Along with this unexplored pesticide, the company is deeply involved in conceiving smart farming solutions. The technologies and the solutions revolve around their mission which is boosting the agricultural output, easing the manual work and reducing the carbon footprint. Therefore we appreciate all the efforts made by BASF for setting themselves in the forefront in providing innovative solutions for farmers in Europe, India and all over the world.

Source : Vinodini Harish

Godrej Agrovet Q4 And Fy24

Mumbai, May 8, 2024: Godrej Agrovet Limited ("GAVL") has today announced its financial results for the fourth quarter and full year ended March 31, 2024

HIGHLIGHTS OF FINANCIAL PERFORMANCE (Q4 and FY24)

Q4 FY 24 Financial Summary

The company reported consolidated revenues from operations of Rs. 2,134 crore in Q4 FY24 as compared to Rs. 2,095 crore in Q4 FY23

Company reported consolidated EBITDA, excluding non-recurring & exceptional items, of Rs. 164 crore in Q4 FY24 as compared to Rs. 76 crore in Q4 FY23 Company reported Profit before tax*, excluding non-recurring & exceptional items, of Rs. 83 crore in Q4 FY24 as compared to Rs. 2 crore in Q4 FY23

FY24 Financial Summary

- FY24 consolidated revenues from operations increased to Rs. 9,561 crore from Rs. 9,374 crore in FY23
- Company reported consolidated EBITDA, excluding non-recurring & exceptional items, of Rs. 757 crore in FY24 as compared to Rs. 564 crore in FY23
- Company reported Profit before tax*, excluding non-recurring & exceptional items, of Rs. 434 crore in FY24 as compared to Rs. 280 crore in FY23

*Profit before tax excludesshare of profit from associates

MANAGING DIRECTOR'S COMMENTS

Commenting on the performance, Mr. B. S. Yadav, Managing Director, Godrej Agrovet Limited, said:

The financial year 2023-34 augured well for Godrej Agrovet in terms of robust surge in profitability over FY2022-23. This growth in profitability was primarily driven by exceptional performance of domestic crop protection business, structural turnaround of dairy business, market share gains in Animal Feed and robust volume & margin growth in branded products in our poultry business.

Domestic crop protection business delivered stellar performance primarily driven by higher volumes of in-house- and in-licensed products. Animal Feed business recorded double-digit growth in volumes in cattle feed and fish feed categories and significant increase in segment margins led by softened commodity prices and higher realizations in the aforementioned categories. Our Dairy business achieved remarkable turnaround and returned to profitability. This was driven by focused effortson improving operational efficiencies and improved milk spread. The Poultry business also recorded robust improvement in profitability on the backof higher live bird prices and increase in volumes of branded product portfolio.

In our Vegetable Oils business, lower end-product prices, which came off record highs of FY23 and normalized during FY24, resulted in lower segment margins as compared to FY23. For Astec Lifesciences, FY24 was a challenging year as it was severely impacted by acute demand-supply imbalance which resulted in unremunerative realizations in respect of its key enterprise products.

During the year, Godrej Agrovet also focused on achieving the long-term sustainability targets guided by the Godrej Group's Good & Green vision. We are one of the two agricultural companies in Indian agriculture sector to be included in "A" list – leadership band of Climate Disclosure Project's (CDP) climate disclosures.GAVL'sCDP scores are ahead of the global averages.We achieved good progress in achieving 2025 sustainability targets led by(a) 77% of energy consumption from clean renewable energy sources as against target of 90% and (b) being a water positive company already conserving 20 times more water than the consumption.

SEGMENT-WISE BUSINESS HIGHLIGHTS

Animal Feed

Sustained growth in cattle feed & amp; fish feed volumes of +11% y-o-y & amp; +19% y-o-y, respectively, was partly offset by lower poultry feed sales resulting in a volume growth of 3% in FY24. Segment margin for FY24 improved considerably as compared to FY23 on account of softened commodity prices and higher realisations in cattle feed & amp; fish feed categories.

While volumes remained flat year-on-year in Q4FY24, segment margin improved considerably as compared to Q4FY23 due to favorable commodity positions & higher realisations in cattle feed category.

New products have been launched in Q4FY24 in the cattle feed segment to continue sustained volumed growth.

Vegetable Oil

Lower sales volumes in Q4FY24 on account of lower inventory of Palm Kernel Oil brought forward from the previous quarter (258 MT) as compared to Q4FY23 (2,852 MT) & 7% drop in Fresh Fruit Bunch (FFB) arrival volumes impacted profitability in a season-

ally weak quarter. Oil extraction ratio, however, improved sequentially as well as vs. Q4 FY23.

In FY24, FFB volume growth of 6% was more than offset by lower Crude Palm Oil & Palm Kernel Oil prices which came off record highs of FY23 and normalised during FY24.

4 new mandals were allotted in the state of Andhra Pradesh in Q4FY24

Crop Protection (Standalone)

Standalone Crop Protection segment results witnessed strong growth in the fourth quarter as well.

Stellar performance throughout the year driven by higher sales of in-house and in-licensed portfolio and lower sales returns as compared to FY23 has resulted in topline growth of 36.8% and segment margin of 31% in FY24.

Astec Life Sciences

Higher salience of contract manufacturing (CMO) and new products in Q4FY24 as compared to Q4FY23 helped improve the topline & margin profile.

On the product development front, Astec has commercialized new products in Q4FY24 aided by the strong R&D capabilities.

In terms of FY24 performance, Astec's contract manufacturing business delivered strong volume and margin performance. However, it was more than offset by subdued performance in enterprise products due to lower realisations and margins on account of severe demand-supply imbalance.

Dairy

Dairy business has achieved a structural turnaround in its profitability in FY24 as a result of significant improvement in operational efficiencies and improved milk spread. Salience of VAP has improved to 36% of total sales from 32%, a year ago.

Q4FY24 also witnessed a robust improvement in segment margin led by operational efficiencies and lower procurement costs as compared to Q4FY23. Value-Added Products (VAP) revenues grew by 9% year-on-year in Q4FY24; growth was driven by volumes as well as realizations.

Godrej Tyson Foods Limited(GTFL)

GTFL's profitability improved significantly in Q4FY24 driven by higher live bird prices and an increase in volume of branded products vis-à-vis Q4FY23; revenues declined primarily due to lower volumes in live bird business as GTFL continued to focus on branded business & reduce exposure to live bird business. In terms of FY24, GTFL has achieved excellent growth in profitability led by higher live bird prices, consistent improvement in volumes and margins of branded products and operational efficiencies.

ACI Godrej Agrovet Private Limited, Bangladesh

ACI Godrej posted revenue growth of 7% year-on-year in Q4 and 8% year-on-year in FY24, driven by higher realizations as well as volumes. Profitability improved remarkably and was higher by 117% over FY23 on account of lower input costs.

Source : Chemical Market

Spraying Success Herbicides In Modern Agriculture

Introduction

In the realm where science meets Agriculture, there exists a potent arsenal wielded by farmers and agronomists alike: Herbicides. These chemical compounds designed for Weed control target unwanted vegetation, that encroach upon cultivated lands. Yet behind the innocuous facade of Weed control lies a world fraught with controversy, ethical dilemmas, and ecological implications. Agriculture stands as the backbone of any nation. This article delves into the various facets of herbicides.

Types of Herbicides

Outlined below are the common types of herbicides along with their descriptions and constituents that are used in Crop Management :

- Pre-Emergent Herbicide - These chemical compounds prevent the germination and growth of weed seeds before they emerge from the soil. They form a barrier in the soil that inhibits the development of roots and shoots in newly germinating weeds, effectively suppressing weed growth without harming established crops. Their action is focused on the fragile root tissue of newly germinated seedlings. A few of the active ingredients in Pre-emergent herbicides include atrazine, Pendimethalin, prodiamine, and trifluralin.

- Post Emergent Herbicide - These types of herbicides are those that control weeds that have already emerged from the soil and are growing. They are applied directly to the foliage of unwanted plants and are absorbed through the leaves, stems, or roots. Their effect is to inhibit specific enzymes or biochemical pathways, crucial for plant growth,

resulting in cellular damage and eventual death of the weed. The choice of herbicide depends on the type of weed to be eliminated. Commonly used ingredients for their formulation include Glyphosate, 2-4D, dicamba, and glufosinate.

- Selective Herbicides - These are designed to target specific types of weeds leaving the desired crops or vegetation unharmed. They exploit the difference in physiological characteristics between target weeds and non-target plants. Common examples of active ingredients are 2-4D for broad-leafed weeds in grassy crops like corn and wheat and atrazine for soybean.

- Systemic Herbicides - Systemic herbicides are absorbed by plants and translocated throughout their vascular systems, effectively reaching all parts of the plant, including roots, stems, and leaves. This systemic action ensures comprehensive control of targeted weeds by disrupting essential physiological processes crucial for growth and survival. Glyphosate is perhaps the most well-known systemic herbicide, acting as a broad-spectrum, non-selective weed killer. Other systemic herbicides include imazapyr, picloram, and clopyralid, each with its specific mode of action and target weed spectrum

- Non-Systemic Herbicides - This type is used to remove all types of vegetation and is particularly useful where no type of plants should grow like fence lines, sidewalk cracks, and driveways. Most types are simple to use, by dilution with water and spraying thereafter.

- Contact Herbicides - Contact herbicides exert their effects upon direct contact with plant tissues, primarily targeting the foliage. Upon application, these chemicals quickly penetrate the outer layers of the plant and disrupt cellular membranes or metabolic pathways, leading to rapid desiccation, wilting, and eventual death of the treated vegetation. Paraquat, diquat, and pelargonic acid are examples of contact herbicide constituents commonly used to control weeds in various agricultural, horticultural, and non-crop settings.

Other Aspects

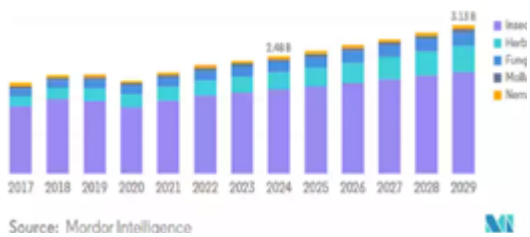
There are various Herbicide application methods. However, usage of herbicides must be conducted in a controlled manner along with caution to maximize efficacy. Some considerations include :

- Wind - The direction and speed of wind are to be considered during application. Ideally when wind speeds are low. The susceptibility of nearby crops should also be taken into consideration.
- Livestock must be kept away from areas where the crops have been sprayed.
- Avoid using the same equipment for spraying insecticides and herbicides.
- Effective control is best achieved when spraying during sunny weather.
- Herbicides could cause skin irritation. Thus contact between the solution and body parts must be prevented.
- Maintain constant pressure during spraying.
- Solutions should be prepared in glass or enamel containers to prevent unwanted reactions.
- Moisture and ambient temperature can affect the efficiency of herbicides. They work best with warm temperatures with favorable RH (relative humidity) conditions. Note that dew will cause dilution and runoff.

Market Scenario

Herbicides are integral to modern agriculture and have contributed to weed control thereby increasing crop yields. The introduction of GM (Genetically modified) crops and herbicide-tolerant varieties will become key components in the future of agriculture.

The above illustration shows the market trends of Crop protection in India. The herbicide market is presently estimated at Rs 2900 Crores for the year 2024 and is likely to reach Rs 4500 Crores by 2029 with a CAGR (Compounded Annual Growth Rate) of 9%. The bulk of the herbicides (47%) are used in grains and cereals like rice, wheat, maize etc. Commercial crops are the fastest-growing segment. The leading players in the herbicide market are Bayer AG (17.62%) and UPL Ltd (13.2%), Syngenta, Dhanuka Agritech, and PL Industries.



The year 2020 saw a boom in the consumption of herbicides. There is a thrust towards sustainable organic farming, which poses a challenge to chemically synthesized herbicides.

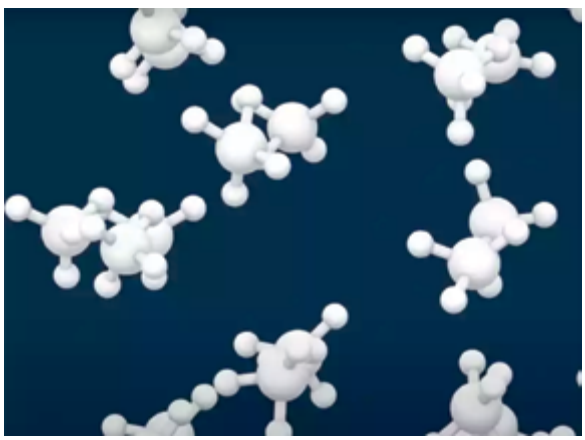
Conclusion

The Environmental impact of herbicides is well known. It is a tale of human ambition and its consequences. The legacy of herbicides is not merely one of triumph, but a cautionary tale that reminds us of our inherent responsibility as stewards of the earth. In the end, the true measure of our civilization will not be found in the conquest of nature, but in our capacity to co-exist with it in harmony.

Source : Team Chemical Market

Expancel Microspheres Revolutionary Lightweight Fillers and Blowing Agents in Foot Wear Industries and many

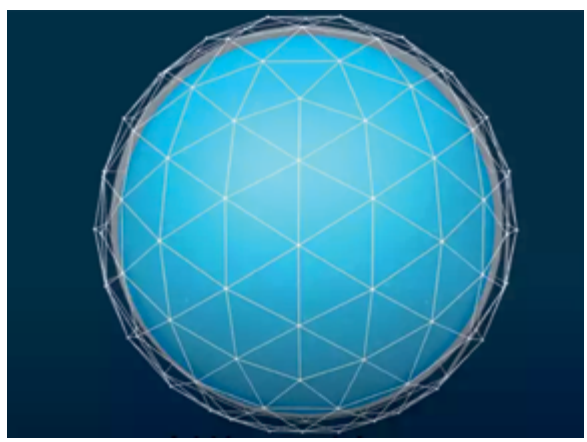
We have seen several innovations in polymer shells in recent times. There are solid reasons why this is so. Every industry is thriving to reduce weight, yet looking for durability, structural integrity, strength, protection and resistance. Especially footwear, automotive and packaging industries are looking for cost-effective solutions with all the characteristics just mentioned. In this article, we have taken some time to appreciate the innovation of polymer shells and how they function as lightweight fillers and blowing agents. If you are inclined towards knowing how polymer shells are engineered across various industries, you will love this quick read. Let's begin.



For the longest time, industries have been using latex sap rubbers. They are considered one of the earliest known polymers used by humankind. Then it was Bakelite which was considered the earliest synthetic polymer which exhibited both stability and heat resistance. Thus it was intensively used in the manufacturing of electrical insulators, telephones and other products. With the advancement in technologies, there have been quite several new polymers brought into the world of manufacturing sectors. They come with diverse properties and applications and cater to different requirements of mankind.

Some notable examples include: conductive polymers are used in applications such as flexible electronics and sensors, self-healing polymers are deployed in coatings, adhesives and other applications, bio-degradable polymers are used in sustainable alternatives to traditional plastics, shape memory polymers are used in manufacturing of biomedical devices and others.

In that order, Nouryon, a specialty chemicals leader involved in manufacturing everyday products such as personal care, paints and coatings, agriculture and food, pharmaceuticals, building products and cleaning goods has developed Expancel WB microspheres for white shoe soles. The organization has announced its launch at the Chinaplas exhibition in Shanghai, China this year. The primary purpose of this article is to celebrate the innovation and spread the word further.



Expancel microspheres and impressive features:

Shoe manufacturers are witnessing increasing demand for white shoe soles, and strong consumer interests without compromising on their performance or comfort. These Expancel microspheres are used across various applications such as the automotive industry and packaging.

Now in the context of shoe manufacturing, Expancel microspheres are used to achieve the following benefits:

Weight reduction: The Expancel microspheres are critically small, and hollow spheres typically ranging from 10 to 100 microns in diameter. The material is a thermoplastic shell which is flexible, thin and lightweight. These microspheres encapsulate gas and expand when the gas inside expands. The shoe manufacturers incorporate these expancel microspheres into their sole material with the intent to reduce the overall weight of the shoe. This feature is very useful in "athletic shoes" where the lighter shoes improve the performance of the athlete.

Foaming effect: Shoe manufacturers are after the comfort and customer satisfaction of the wearers. The foaming effect of these microspheres creates a cushioning or foaming effect in the soles of the shoes. This aspect greatly contributes to the comfort of the wearer and reduces the fatigue of the wearer especially during long periods of walking or standing. You may wonder how this works, it's because the manufacturers of

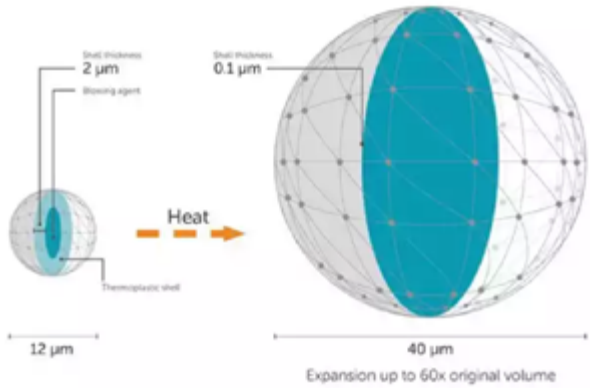
the shoes mix these microspheres into the sole material during the manufacturing process. Since these are evenly dispersed throughout the material, it enables uniform expansion. Likewise, the heat produced during the manufacturing process affects the temperature-sensitive shell softens the material and makes it more flexible.

The temperature causes the gas inside the microspheres to expand rapidly and the pressure causes the microspheres to stretch and deform. This creates a foaming effect within the material.

What happens next? Since the microspheres are evenly dispersed along with the material, it creates a network of interconnected bubbles or voids within the material, and this structure helps to reduce the density of the material, making it lighter and more flexible. Once the desired sole shape is obtained, the material is allowed to cool and solidify.

The thermoplastic shell of the microspheres hardens trapping all that expanded gas inside the bubbles and forming a stable foam structure.

Enhanced appearance: These tiny microspheres enhance the whiteness and brightness of the shoe soles. Every consumer is after whiter shoe soles and shoe manufacturers are looking for solutions to cater the consumer demand. Overall whiter shoe soles help in obtaining a cleaner and more attractive appearance.



Density control: The microspheres are incorporated into the shoe soles during the manufacturing process; therefore, the manufacturers can easily adjust the amount of microspheres used in the sole. Thereby allowing the manufacturers to customize the level of cushioning and support.

Other applications of these microspheres:

Automotive industries are looking for lightweight solutions. Since reducing weight contributes very well to the fuel efficiency in vehicles, these microspheres could be a great advantage in the areas where weight reduction is important.

Likewise, there are areas where strength and durability play a major role. These polymer shells can be engineered to be strong and durable with the intent to offer higher protection and structural integrity.

Conclusion:

The polymer technology has led to the development of shells with rich characteristics such as improved flexibility, resistance and thermal stability. These innovations have improved the overall performance of the products and contributed to various applications. Overall, the expancel microspheres are the perfect solution for applications where there is a demand for lightweight, durable, customizable, environmentally friendly and cost-effective materials.

Source : Vinodini Harish

Shaping The Future - Construction Chemicals

Introduction

As we marvel at the towering skyscrapers and cityscapes, that define our modern world, one vital component enabling their existence is Construction Chemicals. These substances are not only Concrete additives that give strength and resilience to structural members but also serve diverse functions across the construction industry. They are the architects of durability, custodians of longevity, and sentinels of safety. In this article are described some of the important Construction Chemicals and their functions.

Description

The Construction industry employs a wide array of chemicals for various purposes, varying from adhesives and sealants to coatings and Concrete additives. These chemicals enhance the durability, strength, and performance of construction materials.

Plasticizers - They are used in high-strength concrete mixes or where a high degree of flowability is needed. The reduced viscosity allows the pumping of concrete of different

grades to greater heights. Significant water reduction is achieved while maintaining workability and reduced permeability, which helps in preventing the ingress of harmful substances such as water, chloride ions, and sulfates. Plasticizers prevent the corrosion of reinforcements thus retaining their strength. Additionally, the denser and more homogeneous concrete mix achieved with plasticizers can enhance its resistance to factors such as freeze-thaw cycles, chemical attacks, and abrasion, thus enhancing Durability in construction.

Accelerators and Retarders -

Accelerators increase the rate of cement hydration, which is the chemical reaction between cement and water that forms the hardened paste binding the aggregates together in concrete. They are additives that speed up the early strength development of concrete, allowing for faster setting and early strength gain. They are particularly useful in cold weather conditions or when rapid construction schedules demand early formwork removal or traffic opening. Common constituents of accelerators include calcium chloride, calcium nitrate, and Triethanolamine.

Retarders are additives used to delay the setting time of concrete, allowing for more extended periods for mixing, transporting, placing, and finishing the concrete. They are particularly useful in hot weather conditions, large-scale placements, or when long-distance transportation is required. Retarders work by slowing down the hydration process of cement, which helps to prevent premature stiffening and setting of the concrete mixture. This allows for better workability and reduces the risk of cold joints and other construction defects. Common constituents of retarders include Lignosulphonates, Polycarboxylate ethers, citric acid, and gluconic acid.

Air Entraining Agents -

The primary function of air entraining agents is to introduce microscopic air bubbles into the concrete mix during mixing. These air bubbles are uniformly dispersed throughout the hardened concrete, providing numerous benefits to the material's performance. One of the most significant benefits of air entrainment is the enhancement of freeze-thaw resistance. When water freezes within the concrete, it expands, exerting pressure on the concrete matrix. The presence of entrained air bubbles provides voids for the expansion of freezing water, reducing the internal pressure on the concrete and minimizing the risk of cracking or spalling during freeze-thaw cycles. Some of the common constituents are Surfactants and Vinsol resin.

Sealants and adhesives

Sealants are used to seal joints and gaps in concrete structures. Mainly silicone based they exhibit high weather resistance. Polyurethane and acrylic-based sealants are also used depending on the base material. Adhesives are generally epoxy-based, and used in concrete, plastics, and metals, where high-strength bonding is required.

Increasingly we see the facades of commercial buildings having tinted glasses. This enhances the aesthetics and reduces the cost of construction. Sealants and adhesives form a vital component in this type of architecture. With diverse choices, they offer solutions to a variety of environmental conditions.

Waterproofing

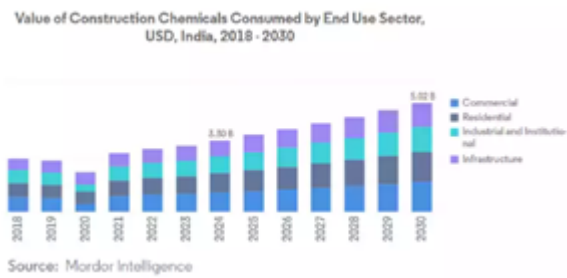
Waterproofing products are latex-based, consisting of plasticizing agents, polymers, and additives. Used in roofs, terraces, overhead, and underground tanks, they find further applications in masonry repairs of concrete columns, beams, and slabs. They improve the adhesive strength of mortars and prevent cracking of concrete due to reduced shrinkage thus providing comprehensive Waterproofing solutions.

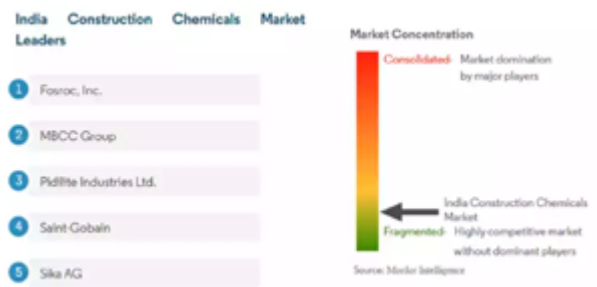
Coatings

External surfaces of structures receive coatings to enhance their appearance and durability. Made of Acrylic elastomers and additives, they form higher film thicknesses, which have properties like water resistance, crack bridging ability, weather durability, and excellent resistance to the growth of fungus and algae. Further, the coating is UV-resistant and elastic enough to withstand thermal expansions and contractions.

Market Scenario

The above illustration depicts the rising trend of Construction Chemicals in India and the future outlook. Presently the value is about Rs 28,000 Crore rising to a level of approx Rs 42,000 Crore in 2030. This shows a combined CAGR (Compounded annual growth rate) of nearly 7% encompassing all sectors. Urban infrastructure development is a significant focus for the future.





However, the market is competitive and

fragmented with the Top 5 companies holding 18.71% of the market share as illustrated in the figure above. This may lead to a few M&As (Mergers and Acquisitions) in the future. New products will likely emerge, keeping pace with technological advancements and industry demands.

Conclusion

From the humble beginnings of mortar and concrete to the cutting-edge innovations of nanotechnology, the story of construction chemicals has been one of evolution, adaptation, and pursuit of excellence. As the various sectors evolve, the challenges posed by climate change and urbanization will make their role even more critical. Judicious use of these chemicals will be essential to achieve optimal functionality and longevity of structures.

Source : Team Chemical Market

Yazaki and Toray Jointly Develops Recycled PBT Resin Grade for Automotive Wiring Harness Connectors Contributing to Carbon Neutrality

Tokyo, Japan, May 14, 2024 –Yazaki Corporation and Toray Industries, Inc. announced today that they have jointly developed a recycled polybutylene terephthalate (PBT) resin grade that uses scrap materials from manufacturing processes to make connectors for automotive wire harnesses.

This resin can lower connector production-derived carbon dioxide emissions while offering the same performance properties as virgin materials.

Toray offers Ecouse TORAYCON™, a chemically recycled PBT resin made by depolymerizing and re-polymerizing scrap from manufacturing processes. The downsides of recycling resins include contamination from foreign substances and degraded material quality. Through chemical recycling, the company provides recycled PBT resin that matches the quality of virgin material. This process includes rigorous quality control from depolymerization to compounding.

One challenge for Yazaki has been to stabilize the quality of recycled materials in highly functional parts, such as automotive wire harness connectors. It addressed this by optimizing the material properties and moldability of Toray's chemically recycled PBT resin. It collaborated with Toray to develop a recycled PBT resin grade for connectors that matches the quality stability of existing PBT resin grades.
Through this joint effort, Yazaki and Toray will contribute to realizing a carbon-neutral, circular economy in the automotive industry.

Features

1. Lower carbon dioxide emissions during material production, compared to conventional PBT resin grades

2. Equivalent material properties, moldability, and quality stability, compared to conventional PBT resin grades

Yazaki and Toray plan to exhibit automotive wire harness connectors employing Toray's chemically recycled PBT resin, at their booths at the Automotive Engineering Exposition 2024 YOKOHAMA, at Pacifico Yokohama from May 22 through 24.

Source : Toray

PPG to Spotlight Role of Coatings, Adhesives, Sealants in Advancing Electric Mobility at the Battery Show Europe

STUTTGART, Germany, May 14, 2024 – PPG (NYSE: PPG) today announced that it will spotlight its portfolio of advanced functional coatings, adhesives, and sealants designed to address challenges across the electric mobility sector at The Battery Show Europe, which takes place June 18-20 at the Messe Stuttgart exhibition center in Stuttgart, Germany.

Visitors to PPG's exhibit (booth #8-F70)

EVENTS AND CONFERENCES

44TH DYE+CHEM BRAZIL INTERNATIONAL EXPO

Date: July 10-12, 2024
City: Centro De Eventos PRO MAGNO, São Paulo, Brazil
Country: Brazil
Website: https://br.cems-dyechem.com/

Description: CEMS-Global USA's International `Dye+Chem series of Exhibitions has reached its accession in popularity in South & South-East Asia as the only kind of series held in the sub-continent. Being organized for more than a decade in Bangladesh, India & Sri Lanka; `CEMS-Global' is pleased to take this leading Series of Exhibition to Brazil and present the Brazilian edition - `44th Dye+Chem Brazil 2024 International Expo' to be held on similar successful model concurrently with `5th Brazil Apparel Sourcing Show 2024', 'Textech Brazil' and `5th Brazil Int'l Yarn & Fabric Sourcing Show 2024', focused to the colossal manufacturing Industry of Brazil. Brazil – is one of the `BRICS' economies and recently overtook the UK as the world's sixth-largest economy. Its economy is the largest of the Latin American nations and the second largest in the western hemisphere. Brazil is one of the fastest-growing major economies in the world. In future decades, Brazil is expected to become one of the five largest economies in the world. Brazil's place as a leader among the world's emerging economies was first brought to widespread prominence with its inclusion as one of the BRIC countries – the tag is given a decade ago to Brazil, Russia, India, and China because of their robust economic growth and tremendous market opportunity. In recent years, Brazil has fulfilled its promise and remains one of the world's top prospects for business development and investment. Brazil continues to enjoy steady economic growth and has the second biggest industrial sector in the Americas. The country's annual per capita GDP is US$ 12,000, almost doubled in the past two decades. Manufacturing sector dominates the Brazilian economy, contributing 67% and 30% of GDP, respectively. Brazil has steered a careful path to reach a position of global economic and industrial power. All these facts made CEMS-Global take its popular `Dye+Chem Series of Exhibition' to Brazil.

CPHI CHINA - VIRTUAL CPHI

Date: June 19-21, 2024
City: Shanghai New International Expo Center
Country: China
Website: https://www.cphi.com/china/en/home.html

Description: This year's event saw the return of international attendees for the first-time post covid and was a huge success as we hosted thousands of pharma professionals from across the entire pharma supply chain in Shanghai. Excited for the next edition?

COATINGS FOR AFRICA

Date: June 19-21, 2024
City: Sandton Convention Centre Johannesburg
Country: South Africa
Website: https://www.coatingsforafrica.com/

Description: WHaving a strong track record of achievements, Coatings For Africa stands as the biggest specialised coatings event in Africa. Thanks to its association with the Oil and Colour Chemists' Association (OCCA) and South African Paint Manufacturing Association (SAPMA), it brings together raw material and service suppliers, equipment providers and paint manufacturers. Over a three-day period, this trade exhibition, in conjunction with the Business Presentations Hub, provides a platform for valuable business interactions and networking within the coatings industry. The event offers an ideal setting for

manufacturers, raw material suppliers, distributors, buyers, and technical specialists such as formulators from the coatings industry to meet in person and conduct business. Additionally, attendees can gain valuable knowledge on the latest processes, share ideas with industry experts and establish a robust network within the African continent.

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.

EXPO PAINT & COATING

Date: June 27 - 28, 2024
City: Delhi,
Country: India
Website: https://expopaintcoating.in/

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.

CPHI KOREA

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.

will gain insights into how the company's solutions contribute to enhancing safety and performance, mitigate thermal runaway, and increase manufacturing throughput with automated application processes. At the heart of PPG's showcase will be its coatings for the design, construction, and production of battery cells, modules, and electric vehicle (EV) battery packs – vital components that are driving the shift to electric propulsion systems.

"Along with protecting and beautifying vehicles, PPG strives to empower OEMs and battery and component manufacturers to accelerate the development of tomorrow's automotive and commercial vehicle powertrain systems," said Roald Johannsen, PPG vice president, EMEA, Automotive Coatings. "We're excited to return to The Battery Show Europe to showcase our focus on innovative coatings, adhesives, and sealants for the battery pack and battery assembly."

PPG's contributions to EV development include advanced battery fire protection, thermal management solutions, dielectric isolation coating systems, and shielding coatings for EV applications. The company has global manufacturing and production capabilities across the transportation sector and its collaborative approach in working with OEMs and Tier suppliers helps solve critical challenges in the design and production of EV battery packs.

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

Asahi Kasei Announces Port Colborne, Ontario, Canada as Location of Future Lithium-ion Battery Separator Plant

Asahi Kasei announced today that it will construct its previously announced integrated lithium-ion battery (LIB) separator plant in Port Colborne, which is in the Niagara region of Ontario, Canada. The new manufacturing facility will operate as Asahi Kasei Battery Separator Canada and is expected to create highly skilled, good paying jobs in manufacturing and construction. The start of commercial production is currently slated for 2027.

Koshiro Kudo, President & Representative Director of Asahi Kasei Corporation, who attended for the location announcement event, stated, "As demand for electric vehicles – and the lithium-ion batteries that power them – continues to rise, we are eager to bring the first Hipore™ wet-process lithium-ion separator manufacturing facility to Canada. Backed by the abundant renewable resources, skilled talent and strong local community support here in Port Colborne, we will be able to better serve our partners in the region as well as the broader North American automotive market from this facility."

The Hipore™ wet-process separators to be produced at the Port Colborne facility are among the most highly engineered and critical components of LIBs used in EVs and other energy storage applications.

On April 25, 2024, Asahi Kasei announced an initial investment of approximately 180 billion JPY (CAD$ 1.56 billion) to install approximately 700 million square meters of annual Hipore™ separator capacity at this new Canadian facility.

Asahi Kasei will receive support for the project from the provincial government of Ontario, through its investment attraction agency, Invest Ontario, and will benefit from the federal government's new Clean Technology Manufacturing Investment Tax Credit (ITC).

Source : Asahi Kasai

Nouryon launches Structure M3 Co-Surfactant at 2024 In-Cosmetics Global

Nouryon announced the launch of a new biodegradable personal care technology, Structure® M3 co-surfactant at the 2024 in-cosmetics Global event in Paris, France. This new innovation enhances the functionality and appeal of a wide range of personal care formulations and was developed in response to consumers' increasing preference for more natural and milder ingredients.

"At Nouryon, we are committed to driving innovation and setting new standards of excellence in the personal care industry. The launch of this innovative polysaccharide technology marks a significant advancement by providing formulators, cosmetic chemists, and beauty developers with an exceptional ingredient that unlocks new possibilities in product innovation, performance, and sustainability," said Suzanne Carroll, Senior Vice President of Home and Personal Care at Nouryon.

Structure® M3 co-surfactant significantly reduces the irritation potential of commonly used surfactant systems, offering customers the optimal balance of mildness, cleansing, and foaming in shampoo, facial cleanser, and body wash formulations. Designed with sustainability in mind, it is available as a waterless, free-flowing powder of high natural content (NOI1 = 85), and it is readily biodegradable (per OECD 301B2). Additionally, it is cold-water processable and compatible with both sulfate- and sulfate-free surfactant systems. Structure® M3 co-surfactant will be showcased in the Innovation Zone at in-cosmetics® Global.

"Our product portfolio is designed to address customer demands for transparent, clean label ingredients, aligning with modern consumer preferences for environmentally friendly products," noted David Freidinger, Vice President, Personal Care & Pharma at Nouryon.

Structure® M3 co-surfactant is the latest in a series of more natural products introduced by Nouryon for the personal care end-market. These include SolAmaze® Natural solution, a biobased, biodegradable, film-former that offers superior water resistance for high SPF emulsion sunscreens, Amaze® Nordic Barley, a certified natural starch that is used to replace synthetic ingredients in skin and hair care products, and Amaze® SP aesthetic modifier, a 100% biobased polymer that helps formulators to create more natural hairstyle products for consumers.

Source : Nouryon

Evonik Presents its Latest Solutions for the Polyurethane Markets at UTECH Europe 2024

- Portfolio transformation to Next Gen sustainable additive solutions based on renewable raw materials
- Global amine platform now running on green electricity
- Continued roll out of TEGO® RISE software to flex foam customers

Essen, Germany. Evonik will showcase its latest solutions for the polyurethane industry at its tradeshow booth E15 and during five technical paper presentations at UTECH Europe 2024, in Maastricht, Netherlands April 23-25. Held every three years, UTECH Europe is the leading international event for the global polyurethanes industry. It offers an ideal platform to highlight Evonik's market leading additives portfolio and its deep understanding of polyurethane chemistry and markets with customers and partners.

"We pride ourselves on being the home of sustainable

Booking price as on 13/03/2024		
Current Exchange rate-$1= 82.75 INR		
Chemicals	**Current Prices**	**Location**
Acetic Acid	439	CFR India
Acrylonitrile	1390	CFR India
Benzene	1030	CFR India
Phenol	1030	CFR India
Acetone	1030	CFR India
Butyl Acrylate Monomer	1590	CFR India
C9	1000	CFR India
LAB	1570	CFR India
IPA	1520	CFR India
Methanol	295	CFR India
VAM	1015	CFR South Asia
Toluene	985	CFR India
Styrene Monomer	1200	CFR India
N-Butanol	1160	CFR India
Octanol	1870	CFR India
Isobutanol	1250	CFR India
MEG	610	CFR India
Mix Xylene-Solvent Grade	960	CFR India
Gycerine	700	CIF India
DMF	950	CFR India
Acrylic Acid	1050	CIF India
Formic Acid	550	CFR India
Adipic Acid	1350	CIF India
Ethylene	1005	CFR India
PTA	800	CFR India
Propylene	865	CFR India
THF	NA	CIF India
Note- All above booking prices have been directly collected from intenders and importers and verified.		

Mumbai Market Price as on 10/05/2024		
Name of Chemical	Current Price	Location
Acetic Acid-Imported Repack	43	Mumbai
Acetic Acid-Domestic Intact	53	Mumbai
Acetic Acid-Domestic Repack	44	Mumbai
Acetone-Imported Repack	110	Mumbai
Acetone-Domestic Intact	122	Mumbai
Acetone-Domestic Repack	110	Mumbai

Acetonitrile-Imported Intact	150	Mumbai
Acetonitrile-Domestic Intact	185	Mumbai
Acetonitrile-Domestic Repack	143	Mumbai
Acrylonitrile-Imported Intact	160	Mumbai
Acrylonitrile-Imported Repack	138	Mumbai
Aniline-Imported Intact	185	Mumbai
Aniline-Domestic Intact	190	Mumbai
Benzene-Domestic Repack	112	Mumbai
Cyclohexane-Imported Intact	150	Mumbai
Cyclohexane-Domestic Intact	130	Mumbai
Cyclohexane-Domestic Repack	125	Mumbai
Cyclohexanone-Imported Intact	145	Mumbai
Cyclohexanone-Imported Repack	132	Mumbai
Cyclohexanone-Domestic Intact	150	Mumbai
Cyclohexanone-Domestic Repack	138	Mumbai
C9 Solvent (99.99% purity)-Imported Repack	105	Mumbai
C9 Solvent (Arham Petrochem)-Imported Repack	104.75	Mumbai
Dibutyl Phthalate-Domestic Intact	131	Mumbai
Dioctyl Phthalate-Domestic Intact	150	Mumbai
Ethyl Acetate-Domestic Intact	82	Mumbai
Ethyl Acetate-Domestic Repack	79	Mumbai
Formaldehyde(37%)-Domestic Repack	18	Mumbai
Methanol-Imported Repack	33	Mumbai
Methyl Ethyl Ketone-Imported Intact	125	Mumbai
Methyl Ethyl Ketone-Imported Repack	117	Mumbai
Methyl Isobutyl Ketone-Imported Intact	165	Mumbai
Methyl Isobutyl Ketone-Imported Repack	148	Mumbai
Methyl Methacrylate-Imported Intact	183	Mumbai
Mixed Xylene-Imported Repack	97	Mumbai
Mixed Xylene-Domestic Repack	97	Mumbai
Monoethylene Glycol-Imported Repack	57	Mumbai
Monoethylene Glycol-Domestic Intact	66	Mumbai
Monoethylene Glycol-Domestic Repack	58	Mumbai
Iso propyl Alcohol-Imported Repack	128	Mumbai
Iso propyl Alcohol-Domestic Intact	145	Mumbai
Iso propyl Alcohol-Domestic Repack	130	Mumbai
nButanol-Imported Repack	106	Mumbai
nButanol-Domestic Intact	116	Mumbai
nButanol-Domestic Repack	107	Mumbai
Ortho Xylene-Imported Repack	128	Mumbai
Phenol-Imported Repack	103	Mumbai

Phenol-Domestic Intact	113	Mumbai
Phenol-Domestic Repack	102	Mumbai
Phthalic Anhydride-Imported Intact	116	Mumbai
Phthalic Anhydride-Domestic Intact	116	Mumbai
Styrene Monomer-Imported Repack	113	Mumbai
Toluene-Imported Repack	96	Mumbai
Toluene-Domestic Repack	97	Mumbai
Vinyl Acetate Monomer-Imported Repack	88	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 10/05/2024

Products	Regions	Current prices
Feedstock Prices $/unit		
Crude Oil ($/barrel)	WTI CRUDE	79.73
	BRENT CRUDE	84.33
	MARS US	77.26
	OPEC BASKET	83.6
Natural Gas	New York	2.33
Gasoline	RBOB	2.55
Heating Oil	US	2.48
Ethanol	US	1.81
Naphtha	FOB Singapore	694
	European	670
	CFR Far East Asia	687
Propane	New York	0.7
Aromatics prices $/MT		
Benzene	FOB Korea	1025
	CFR Japan	1040
Styrene	CFR Japan	1135
	CFR South East Asia	1210
	CFR China	1138
	FOB Korea	1125
Toluene	CFR China	915
	CFR South East Asia	985
	FOB Korea	905
	CFR Japan	915
Iso-Mix Xylene	CFR South East Asia	955
	CFR Taiwan	955
	FOB Korea	945

MEG	CFR China	510
	CFR South East Asia	515
Methanol	CFR China	300
	CFR Korea	354
	CFR South East Asia	363
	CFR Taiwan	341
Solvent-MX	CFR South East Asia	1005
	FOB Korea	910
	CFR China	920
Ortho Xylene	CFR South East Asia	1075
	FOB Korea	1120
	CFR China	1055
Para Xylene	CFR South East Asia	1020
	FOB Korea	980
	CFR Taiwan	1005
Propylene	FOB Japan	825
	FOB Korea	815
	CFR China	845
	CFR South East Asia	815
Propylene Glycol	FOB Korea	820
	CFR China	850
Ethylene	CFR North East Asia	855
	CFR South East Asia	995
	FOB Japan	840
	FOB Korea	835
EDC	CFR Far East Asia	300
	CFR South East Asia	320
Butadiene	CFR China	1395
	CFR South East Asia	1395
	FOB Korea	1385
Benzene	FOB Rotterdam	1180
Methanol	FOB Rotterdam	301
Ortho Xylene	FOB Rotterdam	1425
Para Xylene	FOB Rotterdam	1135
Solvent-MX	FOB Rotterdam	1055
Styrene	FOB Rotterdam	1450
Toluene	FOB Rotterdam	1105
Benzene C/G	FOB US Gulf	403
Toluene C/G	FOB US Gulf	357
Styrene C/LB	FOB US Gulf	61.2
Para Xylene $/MT	FOB US Gulf	1070

Mix Xylene C/G	FOB US Gulf	361
Methanol C/G	FOB US Gulf	97
Intermediates prices $/MT		
Acrylonitrile	CFR Far East Asia	1300
	CFR South East Asia	1300
	CFR South Asia	1350
VCM	CFR Far East Asia	585
	CFR South East Asia	660
MTBE	FOB Singapore	882
	FOB US Gulf	902
Phenol	CFR China	920
	CFR South East Asia	1005
	FOB US Gulf	1100
	FOB Rotterdam	1373
Acetone	CFR China	945
	CFR South East Asia	1050
	CFR Far East Asia	685
	FOB US Gulf	1433
	FOB Rotterdam	1185
Caprolactum	CFR Far East Asia	1670
	CFR South East Asia	1690
Caustic Soda	FOB North East Asia	390
	CFR South East Asia	400
Ethyl Acetate	FOB US Gulf	1631
	FOB Rotterdam	1336
	FD North West Europe(Euro/mt)	1340
Butyl Acetate	FOB US Gulf	1985
	FOB Rotterdam	2263
	FD North West Europe(Euro/mt)	2200
MEK	FOB Rotterdam	1509
	FD North West Europe(Euro/mt)	1500
IPA	FOB US Gulf	1433
	FOB Rotterdam	1282
	FD North West Europe(Euro/mt)	1290
NBA	CFR China	1060
	CFR South East Asia	1060
	CFR Far East Asia	1050
PTA	CFR Far East Asia	760
	CFR South East Asia	780

Note-Above prices have been collected from experts and experienced outsources of the industry.Kindly verify from your end as well.

Octanol	CFR China	1345
	CFR South East Asia	1395
	CFR Far East Asia	1340
DOP	CFR China	1395
	CFR South East Asia	1405
	CFR Far East Asia	1375
Phthalic Anhydride	CFR China	1050
	CFR South East Asia	1110
	CFR Far East Asia	1045
Acetic Acid	CFR Far East Asia	479
	CFR South East Asia	474
	CFR South Asia	419
	FOB China	379
VAM	CFR China	900
	CFR South East Asia	870
	CFR South Asia	887
Polymers prices $/MT		
PVC Suspension	CFR Far East Asia	740-760
	CFR South East Asia	740-770
ABS Injection	CFR Far East Asia	1300-1350
	CFR South East Asia	1320-1370

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
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.
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Opening Ports Price (Rs/kg) of Chemicals as on 10/05/2024

USD Exchange Rate: 83.50 INR

Products	Current Prices (INR/kg)	Prices in USD/mt Equivalent to INR/ kg	Location
Acetic Acid	37	443.11	Ex-Mumbai
Acetic Acid	36	431.14	Ex-Kandla
Acetonitrile-imported intact	145	1736.53	Ex-Bhiwandi
Acetone	101	1209.58	Ex-Mumbai
Acrylic Acid	87	1041.92	Ex-Mumbai
Acrylonitrile	113	1353.29	Ex-Kandla
Adipic Acid	122	1461.08	Ex-Bhiwandi
Aniline Oil	163	1952.10	Ex-Kandla
Benzene	90	1077.84	Ex-Vizaz
Butyl Acetate	93	1113.77	Ex-Kandla
Butyl Acrylate Monomer	148	1772.46	Ex-Kandla
Butyl Glycol	132	1580.84	Ex-Kandla
C10	88	1053.89	Ex-Kandla
C9	85	1017.96	Ex-Kandla
Carbon Black-regular grade	60	718.56	Ex-Mumbai
Caustic Soda Lye	34	407.19	Ex-Dahej
Chloroform	9.5	113.77	Ex-Dahej
Citric Acid-ANHYD	73	874.25	Ex-Bhiwandi
Citric Acid-Mono	63	754.49	Ex-Bhiwandi
Cyclohexane	109.5	1311.38	Ex-Hazira
Cyclohexanone	121	1449.10	Ex-Kandla
DMF Drum	76	910.18	Ex-Bhiwandi
DEG	62	742.51	Ex-Hazira
EDC	27.5	329.34	Ex-Kandla
Epoxy Resin	190	2275.45	Ex-Nhava Sheva
Ethyl Acrylate	122	1461.08	Ex-Kandla
Formic Acid	65	778.44	Ex-Bhiwandi
Glycerine	60	718.56	CIF Nhava Sheva
N-Heptane	165	1976.05	Ex-Bhiwandi
Hexane	89	1065.87	Ex-Kandla
Hydrogen Peroxide-50%	30.5	365.27	Ex-Bhiwandi
Isobutanol	95	1137.72	Ex-Kandla
IPA	117	1401.20	Ex-Kandla
IPA	121	1449.10	Ex-Mumbai
LAB	136	1628.74	Imported
Maleic Anhydride-Drum	93	1113.77	Ex-Mumbai

MDC	25	299.40	Ex-Dahej
MEG	51	610.78	Ex-Mumbai
MEK	104	1245.51	Ex-Kandla
Melamine	85	1017.96	Imported
Methanol	26	311.38	Ex-Kandla
Methanol	26	311.38	Ex-Mumbai
MIBK	140	1676.65	Ex-Hazira
Mix Xylene-Solvent Grade	87.5	1047.90	Ex-Kandla
Mix Xylene-Solvent Grade	88.5	1059.88	Ex-Mumbai
MMA	177	2119.76	Ex-Hazira
N-Butanol	96	1149.70	Ex-Kandla
N-Propanol	102.5	1227.54	Ex-Kandla
Octanol	131	1568.86	Ex-Kandla
Ortho Cresol	160	1916.17	Ex-Bhilai
Ortho Xylene	107	1281.44	Ex-Kandla
Phenol	94	1125.75	Ex-Kandla
Phenolic Resin	160	1916.17	Ex-Indore
Phthalic Anhydride	115	1377.25	Ex-Mumbai
Propylene Glycol	99	1185.63	Ex-Kandla
Sodium Nitrate (50Kg Bag)	61	730.54	Ex-Make-Lasons
Soda Ash Light	34	407.19	Ex-Bhiwandi
Styrene Monomer	101	1209.58	Ex-Kandla
Styrene Monomer	105	1257.49	Ex-Mumbai
Sulphuric Acid	4	47.90	Ex-Vapi
Tio2 (Anatase Grade)	195	2335.33	Ex-Bhiwandi
Tio2 (Rutile Grade)	235	2814.37	Ex-Bhiwandi
Toluene	84.5	1011.98	Ex-Kandla
Toluene	87	1041.92	Ex-Mumbai
VAM	76	910.18	Ex-Kandla
VAM	77	922.16	Ex-Hazira

Producer Prices (Rs/kg) of Chemicals as on 10/05/2024

Producers	Current Price (Rs/kg)	Import parity price in USD/MT	Location	Production capacity
Accord-Ethyl Acetate	68.25	817.37	Ex-Maharashtra	
Arham Petrochem-C9	84.75	1014.97	Ex-Kandla	69,000 tonnes / year
Arham Petrochem-C9	85.75	1026.95	Ex-Ahmedabad	69,000 tonnes / year
Arham Petrochem-C10	87.5	1047.90	Ex-Kandla	30,000 tonnes / year

Arham Petrochem-C10	87	1041.92	Ex-Ahmedabad	30,000 tonnes / year
Arham Petrochem-C10 (Imported Repack)	100.75	1206.59	Ex-Bhiwandi	30,000 tonnes / year
Arham Petrochem-MTO/White Spirit (KL)	59.65	714.37	Ex-Kandla	75000 tonnes / Year
Arham Petrochem-MTO/White Spirit (KL)	60.65	726.35	Ex-Ahmedabad	35,000 tonnes / year
Arham Petrochem-De-Aromatised D40	130	1556.89	Ex-Kandla	75000 tonnes / Year
Arham Petrochem-De-Aromatised D40	131	1568.86	Ex-Ahmedabad	35,000 tonnes / year
Arham Petrochem-De-Aromatised D60	139	1664.67	Ex-Kandla	75000 tonnes / Year
Arham Petrochem-De-Aromatised D60	140	1676.65	Ex-Ahmedabad	35,000 tonnes / year
Andhra Petrochemicals-Iso-Butanol	100.5	1203.59	Ex-Vishakhapa-tnam	4000 tonnes/year
Andhra Petrochemicals-N-Butanol	96	1149.70	Ex-Vishakhapa-tnam	30,000 tonnes/ year
Andhra Petrochemicals-Octanol	135	1616.77	Ex-Vishakhapa-tnam	70,000 tonnes/ year
BASF-Adipic Acid	130	1556.89	Imported	210,000 tonnes/ year
BPCL-2-Ethyl Hexanol (B)	141.5	1694.61	Ex-Kochi	47000 tonnes/year
BPCL-2-Ethyl Hexanol (P)	152	1820.36	Ex-Kochi	
BPCL-2-Ethyl Hexyl Acrylate (B)	158	1892.22	Ex-Kochi	10000 tonnes/year
BPCL-2-Ethyl Hexyl Acrylate (P)	168	2011.98	Ex-Kochi	
BPCL-Acrylic Acid (B)	82	982.04	Ex-Kochi	47000 tonnes/year
BPCL-Acrylic Acid (P)	91	1089.82	Ex-Kochi	
BPCL-Benzene	92.6	1108.98	Ex-Mumbai	90,000 tonnes/ year, Mumbai Refinery,
BPCL-Butyl Acrylate (B)	133.5	1598.80	Ex-Kochi	180000 tonnes/ year
BPCL-Butyl Acrylate (B)	136	1628.74	Ex-Kandla	
BPCL-Butyl Acrylate (P)	143.5	1718.56	Ex-Kochi	
BPCL-Hexane (KL)	97.1	1162.87	Ex-Mumbai	35,000 tonnes/ year, Kochi
BPCL-Hexane (MT)	146.2	1750.90	Ex-Mumbai	35,000 tonnes/ year, Kochi
BPCL-Iso-Butanol (B)	96.9	1160.48	Ex-Kochi	7000 tonnes/year
BPCL-Iso-Butanol (P)	106.5	1275.45	Ex-Kochi	
BPCL-MTO (KL)	85.9	1028.74	Ex-Mumbai	19,000 tonnes/ year

BPCL-N-Butanol (B)	96.3	1153.29	Ex-Kochi	38000 tonnes/year
BPCL-N-Butanol (B)	98	1173.65	Ex-Kandla	
BPCL-N-Butanol (P)	112.5	1347.31	Ex-Kochi	
BPCL-Paraffin Wax	110	1317.37	Ex-Delhi	
BPCL-Sulphur (Molten)	11.4	136.53	Ex-Mumbai	19,000 tonnes/ year
BPCL-Toluene	89	1065.87	Ex-Mumbai	16,000 tonnes/ year
Deepak Phenolics-Acetone	98.5	1179.64	Ex-Dahej Gujarat	80.5
Deepak Phenolics-IPA	118	1413.17	Ex-Dahej Gujarat	30,000 tonnes/ year
Deepak Phenolics-Phenol	92.5	1107.78	Ex-Dahej Gujarat	200,000 tonnes/ year
GACL-Caustic Soda Lye	34.5	413.17	Ex-Dahej Gujarat	
GACL-MDC	26.5	317.37	Ex-Bharuch Gujarat	NA
GNFC-Acetic Acid	37.5	449.10	Ex-Bharuch Gujarat	160,000 tonnes/ year
GNFC-Aniline Oil	162	1940.12	Ex-Bharuch Gujarat	
GNFC-Ethyl Acetate	71	850.30	Ex-Bharuch Gujarat	50000 tonnes/year
GNFC-TDI Drum	195	2335.33	Ex-Bharuch Gujarat	67000 tonnes/year
Grasim-MDC	26.5	317.37	Ex-Gujarat	33000 tonnes/year
GSFC-Cyclohexane	108	1293.41	Ex-Gujarat	NA
HOCL-Acetone	108	1293.41	Ex-Kochi	24640 tonnes/year
HOCL-Phenol	114	1365.27	Ex-Kochi	40,000 tonnes/ year
IOCL-Banzene	92	1101.80	Ex-Vadodara Gujarat	
IOCL-DEG	61.6	737.72	Ex-Odisha(Paradip)	
IOCL-DEG	63.1	755.69	Ex-Panipat	
IOCL-LAB	145	1736.53	Ex-Gujarat	120,000 tonnes/ year
IOCL-MEG	52.2	625.15	Ex-Odisha(Paradip)	
IOCL-MEG	53.8	644.31	Ex-Panipat	
IOCL-Paraffin Wax	110	1317.37	Ex-Delhi	
Jubilant-Ethyl Acetate	72.5	868.26	Ex-Maharashtra	280 tonnes/day

Laxmi-Ethyl Acetate	69.75	835.33	Ex-Maharashtra	100000 tonnes/ annum
Meghmani-Caustic Soda Lye	34.5	413.17	Ex-Bharuch Gujarat	400000 tonnes/ annum
Meghmani-MDC	26.5	317.37	Ex-Ankleshwar Gujarat	397500 kg/month
NIRMA-LAB	142	1700.60	Ex-Vadodra	120,000 tonnes/ year
Reliance-Caustic Soda Lye	34.5	413.17	Ex-Gujarat	69500 tonnes/ annum
Reliance-DEG	63.6	761.68	Ex-Jamnagar	65,000 tonnes/ year
Reliance-LAB	145	1736.53	Ex-Vadodra	180,000 tonnes/ year
Reliance-MEG	54	646.71	Ex-Jamnagar	750,000 tonnes/ year
Reliance-Mix Xylene	89	1065.87	Ex-Jamnagar	120,000 tonnes/ year
Reliance-PTA	81	970.06	Ex-Dahej Gujarat	1,300,000 tonnes/ year
Reliance-TEG	118.5	1419.16	Ex-Jamnagar	NA
Reliance-Toluene	88	1053.89	Ex-Jamnagar	100,000 tonnes/ year
SI GROUP-Phthalic Anhydride	113	1353.29	Ex-Navi Mumbai	11000 tonnes/year
TATA Chemicals-Soda Ash light	35	419.16	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.				

New Chemical Products Listed on Chemical Market Leads Platform

THREAD LUBRICANT / TL 750 / 63148-62-9 / 3402110

CAS-Number : 63148-62-9

Molecular Formula :-

Molecular Weight :-60.05 mol/g

Available Qty :- 50.0000 Kgs

Package Size :- 50kgs, 200kgs HDPE

Price :- Available on Request

Markets :- Basic Chemicals |

NON - SILICONE DEFOAMER / 8042-47-5 / 27101990

CAS-Number :- 8042-47-5

Molecular Formula :-

Molecular Weight :- mol/g

Available Qty :- 50.0000 Kgs

Package Size :-50kgs, 200kgs HDPE

Price :- Available on Request

Markets :- Basic Chemicals |

MASONARY WATER REPELLENT / 38244010

CAS-Number :-

Molecular Formula :- (NH4)2CO3

Molecular Weight :- mol/g

Available Qty :- 50.0000 Kgs

Package Size :- 50kgs, 200kgs HDPE

Price :- Available on Request

Markets :- Basic Chemicals |

SILICONE SPREADER / 67674-67-3 / 34021110

CAS-Number :- 67674-67-3

Molecular Formula :-

Molecular Weight :- mol/g

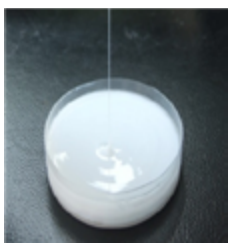
Available Qty :-50.0000 Kgs

Package Size :- 50kgs, 200kgs HDPE

Price :- Available on Request

Markets :-Basic Chemicals |

RUBBER EMULSION / 39100090



CAS-Number :-

Molecular Formula :-

Molecular Weight :- mol/g

Available Qty :- 50.0000 Kgs

Package Size :- 50kgs, 200kgs HDPE

Price :- Available on Request

Markets :- Basic Chemicals |

polyurethanes and developing solutions that meet our customers' evolving needs, like our additives based on renewable raw materials. Our TEGO® RISE software is helping our flex foam customers improve quality and lower scrap rates. We have also just converted our entire global amines production platform to run on green electricity," said Roberto Vila-Keller, Head of the Comfort & Insulation business line. "Our focus has always been on building close relationships, so we are looking forward to meeting with customers again at this year's UTECH."

Source : Evonik

New Distribution Deal Set to Provide Export Boost for Goodfellow

A surge in demand for specialist metals and materials to support global R&D projects has seen Goodfellow hit a new export milestone.

The majority of the company's current revenue is now sent overseas to 60 different countries and it is planning for a further 50% boost in the Iberian market after signing a new distribution agreement with MicroPlanet.

The deal will strengthen its presence in a key territory that is currently home to a significant amount of research and high value manufacturing that requires some of the 170,000 different metals and materials distributed from its Ermine Business Park facility.

Both firms share several synergies and values, including world class customer service, speed of response, quality products and the importance of investing in technical knowledge and support.

The agreement comes at an exciting time for Goodfellow, who has also just rebranded for the first time in over 45 years and launched a new client-centric website (www.goodfellow.com).

"Export has been at the core of our offering for decades and, as such, we invest heavily in ensuring we have a strong 'local' presence on the ground in key markets," explained Simon Kenney, Chief Executive Officer of Goodfellow.

"This is achieved by great distributors like MicroPlanet in Iberia and through other agreements we have in place with Goodfellow GmbH, SARL and Corp in the USA. Understanding different markets and their customer requirements is critical to our expansion, with international sales increasing each year."

He went on to add: "Our ongoing investment in stockholding, our expert team of technical scientists and bespoke processing services continue to be a valuable resource for R&D departments and scientific specialists looking to push the boundaries of innovation that achieve cutting-edge applications all over the world.

"These include new opportunities in fusion energy, battery technology, space exploration and a new cancer treatment."

Goodfellow, which employs more than 100 people at its site in Huntindgon, has also pressed the button on new branding to reflect the modern-day image of the business.

Inspiration for the new design was taken from the baseline of the firm's products at a nano, microscopic and macroscopic level, with the shapes corresponding to rods, tubes, balls and beads.

These spheres are collated together to form the brand icon that sits above the new Goodfellow strapline of 'Advanced Materials, Innovation Delivered'.

This marketing milestone for the business comes at the same time as the new website launch, an extensive project that has taken nine-months to complete and has involved pretty much every member of the team.

The concept is to create an immersive site that showcases the ethos of the company, acts as a unique technical guide for R&D and scientific experts and, importantly, makes it easy for existing and new customers to navigate the 170,000 different products it can supply.

Claire Hartley, Chief Marketing Officer, continued: "Linking the website with a dynamic visual identity, which has the potential to bring other brands in underneath it, was extremely important for us as we look to grow further across the world and deliver a best-in-class user experience.

"It's an integral part of the marketing mix and a new way for us to continuously improve the way we engage with our growing client base."

She concluded: "There will be lots of new content, new project launches and improved frequency of customer communications to educate and add value. This will be in person, at events, webinars and through our new podcast-series."

Source : Goodfellow

Ecogensus Develops Novel New Sustainable Resource: Plastic Substitutes Derived from Mixed Household Wastes

HOUSTON, May 2, 2024 /PRNewswire/ -- Ecogensus, a pioneering resource technology company, today announced its expansion into innovative materials derived from mixed wastes, unlocking the potential value of billions of tons of unused resources. These versatile new materials are engineered for a wide variety of applications, including consumer goods, industrial products, and construction. The polymer powders are designed to integrate seamlessly with 3D printing, injection molding and similar technologies, providing a sustainable alternative to conventional plastics. A transformative patent issued April 23, 2024, underscores Ecogensus' leadership in sustainable materials technology.

Ecogensus is redefining resource technology by transforming household trash—including food waste, diapers, plastics, paper, cardboard, and yard waste—into engineered powders at a molecular level. These powders become high-quality everyday products through existing manufacturing processes.

Bjørnulf Østvik, Ecogensus Founder and CEO, stated, "This development is a pivotal moment for both Ecogensus and the broader manufacturing and environmental sectors. Our patented technology platform reinvents how materials are sourced and utilized, promoting a circular economy and mitigating environmental impacts."

The patent covers Ecogensus' method for converting everyday waste into adaptable, high-performance powders, leading to the creation of polymeric composite resins. These resins are designed for easy integration into current manufacturing processes, offering a sustainable solution that doesn't compromise on quality or performance. The patent also describes polymer cross-linking to enhance the structural integrity and versatility of materials derived from processed solid waste.

This innovation positions Ecogensus at the forefront of the global shift toward sustainable materials production. The potential applications for these materials are vast, spanning industries from automotive to consumer goods, all seeking sustainable, high-performance materials.

William Gress, an Ecogensus Board member and former CEO of a leading manufacturing company, added, "We are setting new standards in the materials sector, including in additive manufacturing. Ecogensus' process turns waste into a valuable commodity, a game-changer for industries aiming for sustainable innovation."

Source : Ecogensus

Air Products to Showcase Decarbonization Solutions for Iron and Steel Production at AISTech2024

LEHIGH VALLEY, Pa., May 2, 2024 /PRNewswire/ -- Air Products (NYSE:APD) will showcase industrial gas solutions and technologies for all phases of iron and steel production at AISTech2024 from May 6-9 at the Greater Columbus Convention Center, in Columbus, Ohio.

Those attending are invited to stop by Air Products' booth, #2130, to speak with an industry specialist and learn more about Air Products' full suite of on-site gas supply offerings and broad range of decarbonization solutions for the iron and steel industry, from oxy-fuel to carbon capture to hydrogen. By visiting the Air Products booth, attendees will also be helping the AIST Foundation, which funds initiatives to promote the steel industry as a viable and rewarding career choice for young engineers. The Air Products Foundation has pledged to donate $100 to the AIST Foundation – up to $15,000 in all – for each registered attendee who visits the Air Products booth.

In addition to showcasing industrial gas solutions in its booth, Air Products' industry experts will lead a presentation titled "World-Scale Gas Processing – Ready for Decarbonizing Ironmaking," at 10 a.m. ET on Tuesday, May 7 during the Decarbonization: Blast Furnace Session. In that session, Anand Makwana, Air Products' Senior Principal Research Engineer; and Candice Silvestre, Air Products' Manager, Blue Hydrogen and Carbon Capture, Utilization and Storage (CCUS) Technology will discuss examples of operating and in-construction low-carbon hydrogen plants to meet current and future steelmaking demands, in addition to options for processing blast furnace gases. Deploying these solutions can result in a 75 percent reduction in direct carbon dioxide (CO_2) emissions from a typical steelmaking site.

A global leading industrial gas supplier, Air Products brings decades of experience in gas supply and technology to improve the operations performance of metals producers. Air Products offers a full line of gases including argon, carbon dioxide, helium, hydrogen, nitrogen, oxygen and gas blends, with a broad range of supply mode options and purity levels to suit the needs of every operation. Air Products can also provide a wide variety of technical services and innovative gas-based technologies to help companies lower costs and improve productivity, while minimizing the environmental impact of production processes.

Decarbonize with Confidence

As the world's largest hydrogen producer and a first-mover in the low- and zero-carbon hydrogen economy, Air Products is helping iron and steel producers, original equipment manufacturers (OEMs), and engineering, procurement and construction professionals navigate the complexities of decarbonization with safe, reliable, clean hydrogen solutions and advanced carbon capture and storage technology. Air Products has publicly-stated that it will commit $15 billion by 2027 to clean energy projects around the world to accelerate the energy transition.

For more information about Air Products' full range of offerings for the iron and steel industry visit Air Products' Decarbonize with Confidence webpage.

Source : Air Products

Opta Group LP Acquires Performix Metallurgical Additives, LLC

AMHERST, N.Y., May 2, 2024 /PRNewswire/ -- Opta Group LP ("Opta"), a portfolio company of Speyside Equity Advisers ("Speyside"), announces the acquisition of Performix Metallurgical Additives, LLC ("Performix") effective April 1, 2024.

Performix supplies metallurgical additives to the steel and foundry industries, including briquettes, slag conditioners, insulators, and tundish fluxes. Strategi-

cally located in Warren, Ohio, and East Chicago, Indiana, Performix's plants serve its end markets efficiently.

Eric Wiklendt, Opta's board chairman, says, "Performix is another excellent acquisition for Opta and the Speyside Equity Opportunity Fund. Performix extends Opta's performance materials and specialty chemicals platform."

"Performix's operational facilities and diverse product offerings create a compelling strategic fit for Opta, broadening our molten solutions portfolio and strengthening our supply chain resilience," explains Mike Ball, Opta's chief operating officer. "These enhanced capabilities allow Opta to better serve its customers by ensuring a wider range of solutions, improved production capacity, and more reliable delivery."

Wiklendt adds, "Opta is not a producer of steel, aluminum, copper, foundry castings, concrete, or paper products. Opta is a provider of solutions that make those products better."

Source : Opta Group LLC

LyondellBasell and AISN Collaborate to Create Innovative Lightweight Plastic Hood

Shanghai, April 24 - LyondellBasell (LYB) announces a collaboration with Hunan Huda Aisheng Group (AISN), a leading automotive supplier in China. This relationship aims to create the first lightweight plastic engine hood applications for the NEV cars of premium domestic automotive brands, progressing the automotive industry towards integrated and lightweight designs. At the ChinaPlas 2024 International Plastics and Rubber Exhibition, the two companies held a grand launch ceremony for this new product.

"LyondellBasell is looking forward to working with AISN to drive a common mission of rapidly developing China's New Energy Vehicle market through differentiated solutions," said Rolf van Beeck, vice president of Advanced Polymer Solutions at LyondellBasell Asia Pacific and AfMEI, "In the future, we plan on further combining AISN's expertise in automotive technology with the LyondellBasell compound solutions, expanding the relationship to cover more body panel areas, and providing more automotive OEMs with innovation and development of automotive materials." With the advancement of low carbon green policies worldwide, the domestic automotive industry is achieving energy saving and carbon reduction through various means. The development and application of lightweight automotive components has become one of the prominent ways to address this. As part of this collaboration, LyondellBasell is making full use of its revolutionary Hifax low linear coefficient expansion to provide an alternative solution to traditional metal engine hoods delivering:

- high rigidity to ensure structural integrity, and be less prone to deformation due to temperature, humidity, etc., thereby meeting stringent dimensional requirements;
- achieve an aesthetic effect that is difficult to replicate with metal, allowing designers to explore more aesthetic possibilities while maintaining superior performance;
- significantly reduce the total weight of the body panels through the use of plastic instead of steel.

"Over the years, AISN has been deeply committed to the automotive industry, providing services from design to manufacturing, and has developed a series of products such as composite door covers, dashboard beams, front-end modules, material battery packs, etc." said Xiong Liming, general manager of Hunan Huda Aisheng Automotive Components & Equipment Manufacturing. "In the future, we are expected to join forces with LyondellBasell to provide a relevant series of products, starting with identifying the suitable material for the development and manufacturing process. We jointly anticipate the innovation and development of automotive parts, and promoting energy conservation and environmental protection in the automotive industry."

As a global leader in polypropylene compounding, LyondellBasell has been focusing on the development of exterior body panels over the years and has successfully developed the Hifax and Sequel series products, accumulating a wealth of experience in material development and application. The company's extensive global production and operation footprint, as well as its expertise in regulations, risk management, and safety for sustainable products in the global automotive market, further supports the company's commitment to contributing to the development of the automotive industry. The Hifax Low Linear Expansion Coefficient solution, and this plastic engine hood, will be showcased at the ChinaPlas 2024 International Plastics & Rubber Exhibition at the Shanghai Hongqiao National Convention and Exhibition Centre from 23rd to 26th April (Hall 6.2, Booth C22). All industry colleagues are cordially invited to come and experience and observe!

Source : LyondellBasell

Developed High-Quality Eco-Friendly Interior Finishes for Cars by Recycling Waste PET Water Bottles. Wins the 11th Week IR52 Jang Young Sil Prize.

- LOTTE Chemical and Hyundai Motor share awareness to solve problems by properly recycling resources.
- Jointly developed eco-friendly PC/ABS parts by recycling waste PET water bottles for about 35 months… To Win the 11th Week 'IR52 Jang Young Sil Prize,'
- Eco-friendly products contributing to carbon neutralization… May expand to the existing PC/ABS interior parts for cars. Eco-friendly parts are actively expanded in Korea as well as overseas to contribute to clients' ESG management.

The researchers of LOTTE Chemical and Hyundai Motor participated in the Ministry of Science, ICT, and Future Planning's ceremony for awarding 'IR52 Jang Young Sil Prize' last April 11 to win 'the 11th Week IR52 Jang Young Sil Prize.'

Through about 35 months of joint development, LOTTE Chemical and Hyundai Motor applied physical recycling processes to the waste PET water bottles and developed eco-friendly interior finishes for cars by blending PC (polycarbonate) and ABS (acrylonitrile Butadiene Styrene). This technology is known to successfully satisfy both environmental protection and safety at the same time. LOTTE Chemical adopted a physical process to develop materials using waste plastics.

The physical recycling process involves collecting, sorting, pulverizing, and cleaning waste plastics to heat and re-protrude them. It enhances carbon reduction for eco-friendly applications, but had physical properties such as appearances and odors that were not suitable for interior finishes.

LOTTE Chemical has made efforts to resolve problems by inspecting the quality of raw recycled materials, selecting adequate recycled materials, improving facilities, securing technologies to reduce VOCs (Volatile Organic Compounds), and enhancing impact resistance.

LOTTE Chemical developed PC and ABS blending technologies using recycled materials and Hyundai Motor developed the parts. The parts have been evaluated for reliability to develop materials suitable for automotive parts and have been successfully applied to mass-produced cars.

LOTTE Chemical and Hyundai Motor emphasized that these eco-friendly products not only contribute to carbon neutralization but also apply to the interior finishes of any car.They are actively being applied to new products as the number of eco-friendly vehicles are growing in Korea and abroad to demand wider use of recycled materials.

Source : Lotte Chemical

Asahi Kasei to Construct a Lithium-Ion Battery Separator Plant in Canada

Düsseldorf, Tokyo and New York – April 25, 2024 – Asahi Kasei announced today that it will construct an integrated plant in Ontario, Canada for the base film manufacturing and coating of Hipore™ wet-process lithium-ion battery (LIB) separator[1]. In relation to this plant, Asahi Kasei has concluded a basic agreement with Honda Motor Co., Ltd. (Honda) and the two parties are currently studying joint investment.

Also, with regard to the Canadian plant, it has been agreed that Asahi Kasei Battery Separator Corp.[2], which is scheduled to be established in October 2024, will receive funding from the Development Bank of Japan Inc. (DBJ) through the issuance of preferred shares. Furthermore, receipt of financial support from the federal government of Canada and the provincial government of Ontario regarding this investment is expected.

Source : Asahi Kasei