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DYES & CHEMICAL MARKET

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CHEMICAL MARKET

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

GAIL TO DEVELOP ETHYLENE FACILITY IN MADHYA PRADESH, INDIA

GAIL to setup INR 60k Crore ethane cracker project in Madhya Pradesh. The land will be provided by MP Industrial Development Corp. The 800 hectares of land will be used for 1500 KiloTons per annum (KTA) project and it also plans to develop a township of 70 hectares for the project. The production for commercial use will be starting from FY 30-31.

What is the Ethane Cracker project?

An ethane cracker is a large scale petrochemical facility that breaks down ethane into ethylene by superheating, which is the key chemical input for making plastics, adhesives, synthetic rubber and other petrochemicals.

What does this mean?

Ethelene is a raw material used in our daily lives from plastic bottles to antifreeze in your car or the clothes you wear. The chemical formula for Ethelene is C2H4. It is an industrial organic compound which has a significant impact on our daily lives. It is a colorless gas with a fruity odour and no odour in its pure form.

According to Commodity Insights report, cracker margins have averaged at $494.94 per metric ton. There has been a weaker demand since the pandemic and the European ethelene production is operating at around 70% to 75% as there is an oversupply of steam cracking capacity. GAILs investment in the project puts India as a competetive player in the global petrochemical market.

Ethylene is available in different purity grades and concetrations to meet the specific needs of different industries. This chemical compound is highly flamable, non-toxic and non-corrosive. It has a boiling point of -103.7 degree C. Ethane is mainly a natural gas which is available under the earth and sea bed. Major source of Ethane are natural oil and gas fields and gets seperated during steam cracking process

Using steam cracking, manufacturers turns ethane and naptha into various chemicals including Ethylene using extreme heating conditions around 750 degree celcius. In Asia and Europe, Naptha serves as a primary raw material for producing Ethylene while cracking Ethane can yeild more than 80% Ethylene and cracking Naptha can yeild around 30% of Ethylene. Ethane's growth as a raw material for Ethylene is the reason why, it is more in demand than Naptha and also due to it low relative cost, high Ethylene yield and less co-products while producing it.

Ethylene is flammable and it is the same gas which also helps in speeding up the ripenning of fruits including your everyday bananas, mangoes and tomotoes you eat and is used in agricultural products. It has its used in antifreeze, refrigeration and also as a fuel gas for industrial cutting and welding when mixed with Oxygen. Ethelene is used in the systhesis of Polyehylene which is a plastic widely used in packaging, construction and various other industries. Ethylene Oxide is used as a sterilizing agents and manufacturing of ethylene glycol which is used in medical and automotive sectors. Ethylene Benzene is used in synthesis of styrene which is used in production of plastics, rubber and resins. Ethylene Dichloride used to product vinyl chloride which is used in PVC pipes.

There are many major players in Ethylene production all around the world like Sinopec, LyondellBasell, Dow Dupont, Exxon Mobil Corporation, INEOS, Chevron Phillips, Braskem, Zhejiang Petrochemicals, PTT Global, Shell and many others and GAIL is working on the new manufacturing facility in Madhya Pradesh. Reliance Industries and Indian Oil Corporation operate Ethylene production facilities in India and ensure a consistent supply to meet domestic needs. Also GAIL Mangalore Petrochemicals plant which was acquired through the NCLT process (JBF Petrochemicals) is expected to be completed in 2025 which has a capacity of 1250 KTPA. According to OEC, in 2022 the top exporters of Ethylene were South Korea ($1.62B), United States ($1.22B), Netherlands ($1.13B), United Kingdom ($529M), and Japan ($368M). In 2022 the top importers of Ethylene were China ($1.94B), Belgium ($1.94B), Indonesia ($864M), Germany ($595M), and Chinese Taipei ($399M).

- Rajiv Parikh

Dyes Chemical Market

(A Monthly Magazine)

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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/+

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CHENNAI PRICE TREND – 29.05.2024

Inorganic Chemicals	No of Units Per Pack	Price (Rs/Kg)
Acid Slurry (Soft)	50Kgs	120.00
Alum- Ferric	50Kgs	21.00
Ammonium Bicarbonate	25Kgs	35.00
Ammonium Bi fluoride (sugar-grade)	50Kgs	178.00
Ammonium Carbonate	50Kgs	90.00
Ammonium Chloride	50Kgs	24.00
Ammonium Nitrate	50Kgs	30.00
Ammonium Phosphate (Mono)	50Kgs	135.00
Ammonium Sulphate	50Kgs	22.00
Antimony Trioxide	50Kgs	1050.00
Barium Chloride	50Kgs	58.00
Bleaching Powder (33% Cl)	25Kgs	14.00
Borax (Granular)	50Kgs	70.00
Boric Acid (Tech.)	50Kgs	145.00
Calcium Carbonate (Activate)	50Kgs	18.00
Calcium Carbonate (Precipitated)	50Kgs	17.00
Calcium Chloride Lump 70%	50Kgs	14.00
Calcium Chloride-Anhydrous	50 Kgs	28.00
Camphor Oil	200 Litrs	135.00
Caustic Potash (Flakes)	50Kgs	85.00
Caustic Soda (Flakes)	50Kgs	42.00
Caustic Soda (Prills)	50Kgs	92.00
Chromic Acid Flakes	50Kgs	320.00
Chlorinated Xylene	25Kgs	85.00
Copper Sulphate	50Kgs	220.00
Di ammonium Phosphate	50kgs	34.00
Dioctylmalite	180Kgs	82.00
Ferric Chloride (Anhydrous)	50 Kgs	44.00
Ferrous Sulphate – crystals	50Kgs	16.00
Hydrochloric Acid	Naked	6.00
Hydrogen Peroxide 50%	50Kgs	34.00
Hyflosupercell	22.7Kgs	138.00
Litharge	50Kgs	220.00
Lithopone B301(China)	25Kgs	124.00
Magnesium Carbonate (Indian)	50Kgs	130.00
Magnesium Sulphate	50Kgs	18.00
Mercury	34.5Kgs	7,200.00
Napthaline Balls	50Kgs	130.00
Nickel Chloride	25Kgs	625.00
Phosphoric Acid (85% Tech)	50Kgs	100.00
Potassium Carbonate (Powder)	25Kgs	110.00
Potassium Carbonate (Granules)	25Kgs	92.00
Potassium Nitrate	50Kgs	130.00
Potassium Permanganate [Tech]	50Kgs	190.00
Potassium Permanganate [Pure]	50kgs.	200.00
Potassium Phosphate (Di)	50Kgs	158.00
S.L.E.S	50kgs	55.00
Soda Ash Light	50Kgs	30.00
Sodium Bicarbonate	50Kgs	33.00
Sodium Bichromate	50Kgs	165.00
Sodium Bisulphite	50Kgs	52.00
Sodium Chlorite 50% (India)	50Kgs	240.00
Sodium Chlorite 80% (India)	50Kgs	280.00
Sodium Cyanide	50Kgs	650.00
Sodium Fluoride	50Kgs	150.00
Sodium Formate	50Kgs	55.00
Sodium Hexameta Phosphate 68%	50Kgs	132.00
Sodium Hydrosulphite [China]	50Kgs	180.00
Sodium Metabisulphite	50Kgs	45.00
Sodium Nitrate	50Kgs	52.00
Sodium Nitrite (China)	50Kgs	68.00
Sodium Silicate	Naked	28.00
Sodium Sulphate (Anhydrous)	50Kgs	15.00
Sodium Sulphide 50-52% (Flakes)	50Kgs	58.00
Sodium Sulphide 58-60% (Flakes)	50Kgs	52.00
Sodium Sulphite 92%	50Kgs	56.00
Sodium Tri polyphosphate	50Kgs	101.00
Titanium Dioxide Anatase	25Kgs	200.00

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Dow Starts Commercial Operations of its Adhesive and Gap Filler Production Line at its Polyurethanes Systems House in Ahlen, Germany

MIDLAND, Mich., May 16, 2024 /PRNewswire/ -- Dow (NYSE: DOW) announced today the mechanical completion of its new VORATRON™ Polyurethanes Systems adhesive and gap filler production line at its Polyurethanes Systems House in Ahlen, Germany.

Dow will increase capacity of its VORATRON™ Polyurethane Systems product family tenfold -ensuring it can meet increasing demand for these materials in battery assembly solutions for the e-mobility segment.
Dow VORATRON™ Polyurethane Systems products, such as high-strength adhesives and thermally conductive composites, are crucial to achieving the fast-evolving demands of mechanical and thermal management performance that different electric vehicle battery designs require. VORATRON™ Polyurethane Systems help Tiers and OEMs advance their performance, processing, and sustainability goals through:

Low-density products support the automotive industry's ambition for vehicle weight reductions.

Improved processability, such as low squeeze force and optimized rheology and kinetics, provide versatility and efficiency to different assembly processes. High performance thermally conductive adhesives and gap fillers that enable the combination of tailored mechanical properties and efficient thermal management which are critical to safety, range, and reliability of electric vehicles. Powered by 100% renewable energy, the site operations also help advance sustainability goals for Tiers and OEMs. All process machines, forklifts and movers at the facility are driven by electrical motors, supporting Dow's continued efforts to reduce carbon emissions around the world.

"By 2030, more than one in four new passenger cars sold will be electric vehicles. Dow's investment in this adhesive and gap filler production line is well-timed to capture this new demand," said Dr. Esther Quintanilla, Dow's global MobilityScience™ marketing director. "The battery is the key to the automotive evolution, and this advancement allows us to serve the current and future EV segment. Dow is committed to supplying our customers with a reliable supply of high-performance materials for the battery assemblies, which are among the most critical technologies enabling this growth."

Dow builds on 100+ years of transportation experience and expertise in application development to deliver innovative, cutting-edge solutions that keep the world moving. For more detailed information on Dow's ongoing commitment to the mobility industry visit: https://www.dow.com/mobilityscience.

Read the full report : https://www.dow.com/mobilityscience.

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Super Absorbent Polymer Market Forecast to Hit $9.03 Billion by 2034: Fact.MR

ROCKVILLE, Md., June 11, 2024 /PRNewswire/ -- The global Super Absorbent Polymer Market size is poised to reach a valuation of US$ 6.4 billion in 2024. According to a recently updated research report by Fact.MR, worldwide sales of super absorbent polymers are analyzed to rise at 3.5% CAGR from 2024 to 2034.

Increasing demand for personal hygiene products and disposable diapers, especially among the aging populations worldwide, is leading to increased production of super absorbent polymers. Market expansion is fueled by ongoing advancements in super-absorbent polymer technology and production techniques. The increasing need for based solutions due to consumer focus on convenience and sustainability is expected to boost sales.

The rising prevalence of disorders such as inflammatory bowel disease and Crohn's disease along with increased awareness of adult incontinence products is projected to contribute to the de-

mand for products necessary to manage bowel and urinary control issues.

Urbanization is bringing about changes in lifestyles, particularly in developing countries, and leading to increased adoption of disposable hygiene products, thereby fueling the demand for super absorbent polymers. The impact of climate change, including an increase in extreme weather events like floods and droughts, is bringing to light the importance of water conservation and efficient irrigation methods in agriculture, driving the use of super absorbent polymers for soil moisture retention.

Read the full report : https://www.fact-mr.com/connects/sample?flag=S&rep_id=7177

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Growing Automobile and Equipment Manufacturing Industries Worldwide to Fuel the Bentonite Clay Market at 5.2% CAGR by 2034

Growing Automobile and Equipment Manufacturing Industries Worldwide to Fuel the Bentonite Clay Market at 5.2% CAGR by 2034

NEWARK, Del., June 11, 2024 /PRNewswire/ -- According to Future Market Insights (FMI), the worldwide bentonite clay market is expected to reach USD 1.9 billion in 2024 and USD 3.2 billion by 2034. The market is projected to rise at a CAGR of 5.2% by 2034.

Bentonite is gaining traction in cosmetic preparations as pigment binders and suspending agents, driving its use in the pharmaceutical segment. The foundry and metal casting industries are set to impact the market, particularly in the automobile and equipment manufacturing sectors, due to increased demand for these applications.

The pharmaceutical industry, along with extensive research by key manufacturers, offers ample opportunities for companies in the bentonite market. The industry is driven by its high usage as groundwater barriers, binders in iron and steel manufacturing, liquor clarifiers, and high drilling mud applications.

Iron ore pellets' increased use in steel manufacturing, high demand from automotive industries, and growing product popularity among end-users further influence the industry. The sector is further gaining traction due to its low product price, ease of availability, and high adsorption capabilities. Growing awareness among users, expansion of manufacturing industries worldwide, and surge in disposable income positively affect the market.

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

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

Automotive Conformal Coating Market Worth $3.5 Billion by 2030 | MarketsandMarkets

CHICAGO, June 12, 2024 /PRNewswire/ -- Automotive Conformal Coating Market is projected to reach USD 3.5 billion by 2030, from an estimated USD 2.0 billion in 2024, at a CAGR of 10.0% during the forecast period., according to a new report by MarketsandMarkets. Automotive manufacturers are subject to stringent industry standards and regulations aimed at ensuring vehicle safety, reliability, and performance. These standards often mandate rigorous testing and protection of electronic components against various environmental and operational stresses. Conformal coatings help manufacturers meet these requirements by providing robust protection for electronic circuits and assemblies. Additionally, as vehicles become more connected and autonomous, the importance of protecting electronic components from potential failures and ensuring cybersecurity increases. Adhering to these stringent standards and regulations drives the demand for high-quality conformal coatings, as they are essential for compliance and for maintaining the integrity and functionality of advanced automotive electronics.

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

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

Eco-Friendly Rubber Kumhos Groundbreaking Use Of Rice By-Products

Eco-friendly processes and products are appreciated the most, as they are free from harmful toxins, they are beneficial for human health. These processes redefined mankind's efforts to preserve Mother Nature. Unless you are living in caves, you must have come across news about sectors involving renewable energy, sustainable agriculture and environmental protection. There is also a massive shift in consumer behaviour towards utilizing eco-friendly products and services. In this article, we have discussed sustainable synthetic rubber and how the manufacturing process stands out. If you liked what is said till now, you should continue reading. Let's begin.

Synthetic rubber is highly utilized across automotive, construction, industrial and other minor industries. The market size of synthetic rubber in Asia-Pacific was ai USD 16.64 billion in 2023 and it is expected to grow steadily due to the growing demand for industrial rubber goods production that includes conveyor belts, industrial mats, gloves, wires and cables. The growth is also due to growing demand for non-tire segments such as automotive, industrial rubber goods, footwear and others. Therefore countries are focusing on developing sustainable rubber production practices.

Considering the traditional production practices of synthetic rubber, the production relies heavily on petroleum-based raw materials, which leads to significant greenhouse gas emissions and environmental pollution. The sustainable alternatives potentially minimize the impacts. Additionally, petroleum is a finite resource, therefore the countries are looking for ways to include renewable and recyclable materials in rubber production.

Kumho has developed a sustainable rubber compound from a rice mill by-product.

Kumho Petrochemicals is producing silica from rice bran extracts. This significant innovation in the tire industry reflects their commitment to bringing more sustainable and eco-friendly products and practices. Considering the global rise in demand for industrial applications such as machinery equipment, construction applications, and so on, it is crucial to bring sustainability and environmentally friendliness to production procedures and obtain resources.

The eco-friendly silica developed by the organization is used for improving the fuel efficiency, braking power and wear resistance of synthetic rubber for tyres.

Benefits of eco-friendly silica:

The eco-friendly silica is used for improving the fuel efficiency, braking power and wear resistance of synthetic rubber for tyres. Although the product is sustainable and environmentally friendly, it doesn't compromise the quality of the product.

The rubber compound material is a high-performance material and exhibits higher dispersion properties within the rubber matrix. Proper dispersion is a crucial property of the composite which makes the compound to be supplied to major domestic and foreign tire and shoe manufacturers.

The resource is available in abundance and is an agricultural by-product that is generated in large quantities during rice milling. Utilizing the rice husk ash for the production of the rubber compound helps in reducing agricultural waste and transforming it into a valuable resource. Likewise, farmers and rice millers can potentially benefit from selling the rice husk ash economically and creating an additional revenue stream for the farmers.

The traditional method of silica production from sand mining is highly energy-sensitive and environmentally detrimental, thereby using RHA silica reduces the need for sand mining, conserves natural resources and lowers the carbon footprint of the production processes.

How has the company focused on further development?

Looking back, the company has made a series of efforts before coming to this step. Previously, the company utilized quartz grains that consumed much energy for processing silica sand. However, this innovation which involves using rice bran is highly energy efficient and reduces carbon dioxide emissions by up to 70% compared to the previous method.

The production of eco-friendly silica has led to the growth of broader implications for the industry. Since there is a significant growth in the number of eco-conscious consumers, the company presents their products with greater value in the market.

Using the innovation, the company has disclosed their plan to double the production of synthetic rubber production from 63,000 tonnes to 123,000 tonnes

Continued on Pg 47

PLASTICS AND CHEMISTRY PRODUCTS IMPROVING VEHICLE SAFETY AND EFFICIENCY

WASHINGTON (May 15, 2024) — Today the American Chemistry Council (ACC) released a report, "Chemistry and Automobiles," which found that use of chemistry and plastic products continues to rise in vehicles. Electric vehicles (EVs) in particular are driving increased demand for these products in the auto sector as a mid-size EV contains approximately 45% more plastic than a similarly sized fuel-powered vehicle.

The report found that compared to a decade ago, the average value of chemistry in a vehicle had increased by 31%. The amount of plastic and polymer composites is up more than 18% from a decade ago and accounts for approximately 10% of a vehicle's weight yet 50% of its volume. This has helped drive fuel efficiency by reducing the weight of vehicles.

Plastics and the products of chemistry in vehicles do more than just improve fuel efficiency and range -- they also support vehicle safety. In addition to seatbelts and airbags, which depend on plastics and chemistry, fiber-reinforced polymer composites can absorb four times the crush energy of steel while foams and polymer composites also help provide impact protection. Additionally, advanced driver assistance systems, such as automated emergency braking, rely on plastics for the multitude of cameras and sensors that enable such safety innovations.

Heather Rose-Glowacki, Sr. Director of Industry Intelligence & Analysis | American Chemistry Council "The trend of incorporating more plastics and chemistry products into vehicles shows little sign of slowing down. Automobile manufacturers, consumers, and regulators want the same thing – more efficient, technologically advanced, and safer vehicles. Coupling those demands with a growing EV market, we anticipate even more plastics and products of chemistry in automobiles for the foreseeable future."

Ross Eisenberg, President | America's Plastic Makers® "What excites me most is we are seeing a transition to using more recycled plastics in automobiles and finding ways to capture and recycle plastics from post-use automobiles. Of all the durable goods sectors seeking to improve circularity, the automobile sector is probably the most advanced and is already incorporating recycled plastics into automobile textiles, tires and other components."

Source : ACC

LG ENERGY SOLUTION TO HOST 'BATTERY CHALLENGE 2024' TO FOSTER STARTUPS WITH PROMISING NEXT-GENERATION TECHNOLOGIES

SEOUL, South Korea, June 4, 2024 / PRNewswire/ -- LG Energy Solution announced that applications for Battery Challenge 2024, its biennial international startup competition, is now open.

Now in its fourth year, the Battery Challenge is LG Energy Solution's mainstay open innovation initiative, designed to discover and collaborate with battery startups with innovative technologies and business models. While helping the growth of the distinguished companies, LG Energy Solution also aims to pioneer next-generation technologies through partnerships and cement its leader position in the battery sector.

Participants can submit their proposals across eight categories: Battery Management System; Battery Maintenance; Battery Recycling and Reuse Technology; Battery Manufacturing and Quality Control; Battery Materials; Smart Factory Solutions; Metal Sourcing; and New to LG.

Two new categories, Metal Sourcing and New to LG, have been established in this year's competition. In particular, New to LG is a sector to encourage participants to explore various novel energy related ideas, not necessarily linked to LG Energy Solution's existing business areas, as the company accelerates its search for future business opportunities and growth engines in the clean energy sector.

The winners, which will be selected through comprehensive business plan evaluations, in-depth interviews, and technology verification, will receive up to $30,000, up $10,000 from the previous program. Awardees will also be reviewed by LG Energy Solution for potential investment and technological

collaboration.

"As part of our open innovation efforts, the Battery Challenge aims to proactively discover promising startups and seek future growth opportunities." said Jay Kim, CTO of LG Energy Solution. "LG Energy Solution will continue to expand our collaboration with various partners to establish a global innovation ecosystem and contribute to the persistent growth of the industry."

Source : PRNewswire

TATA MOTORS ENHANCES ITS ELECTRIC LAST-MILE MOBILITY OFFERING; LAUNCHES THE ALL-NEW TATA ACE EV 1000

Tata Motors, India's largest commercial vehicle manufacturer, today strengthened its e-cargo mobility solutions with the launch of the all-new Ace EV 1000. Developed to revolutionise last-mile mobility, this zero-emission mini-truck offers higher rated payload of 1 tonne and a certified range of 161km on a single charge. The Ace EV is developed with rich inputs from its customers and the new variant will address evolving needs from various sectors like FMCG, beverages, paints & lubricants, LPG & dairy.

Supported by over 150 Electric Vehicle Support Centres across the country, the Ace EV is equipped with an advanced battery management system, Fleet Edge telematics system and robust aggregates for best-in-class uptime. The Ace EV leverages the immense capabilities of the Tata UniEVerse, collaborating with relevant Tata Group companies, and partnering with country's leading financiers to offer customers a holistic e-cargo mobility solution. It will be available with versatile cargo decks and will be on sale at all Tata Motors commercial vehicle dealerships across the country.

Commenting on the announcement, Mr. Vinay Pathak, Vice President & Business Head – SCV&PU, Tata Motors Commercial Vehicles, said "Over the past two years, our Ace EV customers have been beneficiaries of an unmatched experience, which is profitable and sustainable at the same time. They have become ambassadors of the revolutionary zero-emission last-mile mobility solution. With the launch of the Ace EV 1000, we are extending the experience to customers who are looking at solutions with improved operating economics across the varied sectors they service. We are confident that the Ace EV 1000 will contribute to a greener future while delivering superior value and low cost of ownership."

The Ace EV is powered by EVOGEN powertrain that offers an unparalleled driving experience with a 7-year battery warranty and a 5-year comprehensive maintenance package. It delivers safe, all-weather operations with an advanced battery cooling system and regenerative braking system to boost the driving range. It allows regular and fast charging capabilities for high uptime. It is powered by a 27kW (36hp) motor with 130Nm of peak torque, to ensure best-in-class pickup and grade-ability allowing easy ascend in fully loaded conditions.

Source : Tata Motors

HONDA ADVANCES HYDROGEN STRATEGY WITH PRODUCTION LAUNCH OF FUEL CELL ELECTRIC VEHICLE IN OHIO

Honda celebrated the start of production of the all-new 2025 Honda CR-V e:FCEV fuel cell electric vehicle (FCEV) at the Performance Manufacturing Center (PMC) in Ohio. The all-new CR-V e:FCEV is the only FCEV made in America, as well as the first production1 hydrogen FCEV in the United States to combine an all-new U.S.-made fuel cell system with plug-in EV charging capability. A fun-to-drive compact CUV, the CR-V e:FCEV received a 270-mile EPA driving range rating, combining the fuel cell system with plug-in charging to provide up to 29 miles2 of EV driving around town with the flexibility of fast hydrogen refueling for longer trips.

"The Performance Manufacturing Center was conceived as a small volume manufacturing facility with a focus on craftsmanship, and I'm proud of how our production technicians leveraged their experience building the Acura NSX to take on the challenge of making this all-new Honda CR-V e:FCEV," said Patrick McIntyre, lead of PMC. "Producing a zero-emission fuel cell electric vehicle is one more step toward Honda's global goal of achieving carbon neutrality for our products and operations."

In addition to producing the Honda CR-V e:FCEV in America, the next gen fuel cell system that powers it is also made in the U.S. at Fuel Cell System Manufacturing LLC, in Brownstown, Michigan – the joint venture production facility established by Honda and General Motors (GM). The new fuel cell system was co-developed by Honda and GM, achieving higher efficiency and

increased refinement, with durability performance doubled and cost reduced by two-thirds compared to the previous fuel cell system in the Honda Clarity Fuel Cell.

PMC innovations for CR-V e:FCEV production

Production technicians at PMC navigated several challenges related to new production equipment and processes to effectively transition from building the Acura NSX supercar to the Honda CR-V e:FCEV. Following is a look at several of these key initiatives.

- New components: PMC technicians are taking on multiple new assembly processes specific to producing a vehicle powered by both a fuel cell system and a plug-in EV battery, requiring multiple connections for the vehicle's two power sources and the Power Supply Connector that can provide electrical power for various external devices. These include:

- Sub-assembly of two hydrogen tanks, attaching high pressure piping and other parts and then installing the tanks in the vehicle

Compressing hydrogen to 10,000 PSI via a new onsite station used to fill the CR-V e:FCEV hydrogen fuel tanks

- Installation of the fuel-cell system along with connecting high pressure piping and wiring

- Sub-assembly and installation of the under-floor battery

- New Weld System: Transitioning to the CR-V e:FCEV required a complete transformation of the Weld Department, from a highly-automated welding system created for an aluminium spaceframe to a multi-material unibody construction.

- The previous robotic weld system was removed and replaced with new steel welding robots which were installed with characteristics of a traditional weld system but are unique from mass production plants with a flexible fixture system that rolls around on a track.

- PMC technicians also now perform some manual MIG welding to apply welds that are difficult for robots to reach to attach closure parts for the doors, hood and tailgate.

- Paint System Modifications: The larger and heavier all-steel body of the CR-V e:FCEV requires a different corrosion protection application process than the smaller, all-aluminium Acura NSX.

- The CR-V e:FCEV marks the first application in Honda North America of zirconium to a mixed metal, uni-body, and utilizes the same high-appearance paint coating as the NSX. The E-coat dip tank was designed for the smaller surface area of the NSX spaceframe, not a full frame vehicle like CR-V with more surface area inside. So, engineers had to modify the dip tank to enable the CUV body shape to enter at a 38-degree angle, steeper than the 15-degree angle for NSX. More precise control of the E-coat pumps also was required for CR-V, to create higher circulation of the E-coat to cover the surface area inside the frame.

- Following e-coating, but prior to application of the final paint finish, sealer is applied to prevent water leaks. The CR-V body is mounted on a rotisserie, but unlike the previous equipment arm used to turn the lighter NSX spaceframe, a more robust arm that can maintain stability of the heavier CR-V steel frame is used to turn the frame on its side. This enables associates to manually apply sealer similar to the application for the NSX.

Production of the FCEV at the PMC also is laying the groundwork for production of battery-electric vehicles at the Honda EV Hub in Ohio from the standpoint of software for the Integrated Power Unit (IPU).

CR-V e:FCEV product highlights

The Honda CR-V is America's best-selling CUV of the past quarter century, and the CR-V e:FCEV builds on that foundation to deliver top class cabin space, cargo capacity and power.

Honda engineers optimized CR-V e:FCEV's steering and suspension tuning to deliver the same sporty driving experience and class-leading refinement as turbo and hybrid-powered CR-V models. Moreover, the driver can customize the driving experience of the CR-V e:FCEV with selectable drive modes, including EV modes to maximize efficiency and a Sport mode to prioritize acceleration and responsiveness.

Refueling with hydrogen takes about the same time as filling a tank with gasoline. Recharging the Honda CR-V e:FCEV takes just 1.8-hours using a level 2 charger and adds up to 29 miles of battery-powered range for short trips around town.

The Honda CR-V e:FCEV also features the Honda Power Supply Connector, turning the CUV into a clean power source capable of running small home appliances, power tools or camping equipment, as well as charging the new Honda Motocompacto e-scooter.

Honda hydrogen business

Honda has identified four core domains for the utilization of its fuel cell system. In addition to fuel cell electric vehicles (FCEV), the Honda hydrogen business strategy includes commercial vehicles, stationary power stations and construction machinery. Honda is engaged in collaboration with other companies in pursuit of these business opportunities.

- Honda recently debuted a Class 8 Hydrogen Fuel Cell Truck Concept powered by three Honda fuel cell systems to showcase the start of a new demonstration project aimed at future production of fuel cell-powered products for the North American market.

- Honda also began demonstration testing of a stationary fuel cell power station on its Torrance, Calif. campus in March 2023, marking the company's first step toward future commercialization of zero-emission backup power generation.

- Honda also is looking at the application of its fuel cell system to equipment such as excavators and wheel loaders, which account for a large segment of the construction machinery market.

Honda electrification strategy

Honda has a vision to make battery-electric and fuel cell electric vehicles represent 100% of its new vehicle sales by 2040. Toward this goal, Honda is establishing its "Honda EV Hub" in Ohio where the company will begin production of EVs in North America. Honda also recently announced plans to build a comprehensive EV value chain in Canada with an approximate investment of USD$11 billion, to strengthen its EV supply system and capability to prepare for a future increase in EV demand in North America. It is the role of the Honda EV Hub in Ohio to establish the expertise and experience for EV production that will be shared across the Honda production network in North America, including the EV value chain initiative in Canada.

Moreover, each Honda auto production facility in North America has a critical role to play in Honda's electrified future. Even as Honda accelerates preparation for EV production, the company plans to sustain current ICE and hybrid-electric vehicle production to meet continued strong customer demand. The sales growth of ICE and hybrid-electric vehicles also will support the required investment in the electrified future.

Source : Automotive World

ASAHI KASEI MICRODEVICES ACHIEVES SUCCESSFUL PROOF OF CONCEPT FOR EFUSE IN HIGH VOLTAGE 800 V AUTOMOTIVE APPLICATIONS – DOOR OPENER FOR COMPACT, FAST AND RELIABLE PROTECTION OF ON-BOARD CHARGERS OR DC/DC CONVERTERS FOR ELECTRIC VEHICLES

Düsseldorf – June 3, 2024 – Asahi Kasei Microdevices Corporation (AKM) and Silicon Austria Labs GmbH (SAL), the European research center for electronics and software-based systems research, have successfully completed a joint proof of concept of the eFuse technology in high- voltage applications utilizing silicon carbide (SiC)- based power devices. The results show that the eFuse technology can significantly improve safety, as well as reducing material and maintenance costs of systems such as on-board chargers (OBC) in automobiles.

The popularity of silicon carbide (SiC)- and gallium nitride (GaN)-based power devices in electric vehicles and other high-voltage applications is on the rise. This makes it necessary to replace mechanical fuses – which have been utilized with conventional silicon (Si) based power converters – in order to immediately shut down the system when detecting an overcurrent, protecting the devices and avoiding costly maintenance. AKM is producing the CZ39, a coreless current sensor with a response time of 100 ns. Its fast response capability and high accuracy allow for precise detection of overcurrents and quick system shutdown. In a joint technical verification together with the Austrian research center SAL, AKM has developed the eFuse system which solves the challenges of conventional protection systems using mechanical fuses. This solution provides the overcurrent and short circuit protection required for next-generation high-voltage EV systems with SiC- and GaN-based power devices, such as OBCs. Furthermore, the current sensor integrated into the eFuse can efficiently regulate the current in connected subsystems, thereby reducing the overall part count.

"With this joint technology validation, we have set a new standard for eFuse technology, and we are proud to combine AKM's expertise with SAL's research capabilities to achieve this innovative result. We expect that the eFuse technology will contribute to smaller and lighter EV onboard chargers," said Toshinori Takatsuka, General Manager of AKM's current sensor business.

"By utilizing the latest AKM current sensing technologies, we can improve the reaction time of eFuses and the protection of wide-bandgap power converters," said Thomas Langbauer, Team Lead within the Power Electronics Division at SAL.

Source : Asahi Kasei

ALESION® EYELID CREAM 0.5%, A NEW TREATMENT FOR ALLERGIC CONJUNCTIVITIS, GOES ON SALE IN JAPAN - WORLD-FIRST CREAM-TYPE ALLERGIC CONJUNCTIVITIS TREATMENT REQUIRING JUST ONCE DAILY ADMINISTRATION TO THE UPPER AND LOWER EYELIDS

May 22, 2024, Osaka, Japan – Santen Pharmaceutical Co., Ltd. (head office: Osaka; hereinafter Santen) and Mitsubishi Tanabe Pharma Corporation (head office: Osaka; hereinafter Mitsubishi Tanabe Pharma) have announced the launch of Alesion® Eyelid Cream 0.5%, (generic name: epinastine hydrochloride, development code: STN1011402; hereinafter Alesion® Cream), an allergic conjunctivitis treatment in Japan today. Both companies have already concluded a joint sales promotion contract for the product, which is sold in Japan by Santen. The product is the world's first cream-type allergic conjunctivitis treatment requiring just once daily administration to the upper and lower eyelids (the area around the eyes). Alesion® Cream was developed by Santen as a new choice for the treatment of allergic conjunctivitis, a condition which is typically treated with anti-allergy eye drops (mediator release inhibitors and histamine H1 receptor antagonists). Santen hopes that this new formulation will make it easier for patients to take their required dose, thereby improving patient adherence. The development of the product in a new cream formulation is also expected to help patients who find it difficult to take eyedrops receive their medicine more easily. The cream needs only to be applied directly with the fingertips to the upper and lower eyelids once a day for the product to prove effective. Alesion® Cream's active ingredient is epinastine hydrochloride (a histamine H1 receptor antagonist which suppresses the release of chemical mediators from mast cells) that was discovered and developed by Boehringer Ingelheim in 1975. Phase III clinical trials (Conjunctival Allergen Challenge trial; randomized, double-masked, placebo-controlled trial) carried out on patients in Japan during the asymptomatic phase confirmed that the product demonstrates superiority in comparison to a placebo eyelid cream in suppressing pruritus (intense itching) and conjunctival hyperemia (bloodshot eyes), the main symptoms of allergic conjunctivitis. In addition, a Phase III trial of the long-term administration of the product showed no serious adverse reactions, recording an incidence rate of 1.6% (2/124) for eyelid itchiness and 0.8% (1/124) for eyelid redness.

Alesion® Cream will be manufactured and sold by Santen. Based on the joint sales promotion contract announced on May 7, 2024, by Santen and Mitsubishi Tanabe Pharma, detailing of medical institutions on the product will be provided jointly by both companies. Santen will detail ophthalmic medical institutions, while Mitsubishi Tanabe Pharma will detail all other medical institutions. Under these arrangements, Santen, a company specializing in eye health, and Mitsubishi Tanabe Pharma, which sells allergy treatment agent Rupafin® Tablets 10 mg and has access to medical institutions operating in a wide range of specialist fields, will facilitate the delivery of this new treatment option for allergic conjunctivitis to a larger number of medical institutions, thereby raising patients' quality of life (QOL). Ippei Kurihara, who is the Head of Japan Business and Global Commercial Strategy at Santen, said "Santen has always placed importance on patient-centered formulation development. We have harnessed the know-how we built up through the development, manufacture and sale of the anti-allergic eyedrops "Alesion® LX Ophthalmic Solution 0.1%" and "Alesion® Ophthalmic Solution 0.05%" to develop a cream to be applied to the upper and lower eyelids (the area around the eyes) once a day. Many of the increasing number of allergic conjunctivitis patients in Japan experience lower QOL due to symptoms of the condition including itchy and bloodshot eyes. The release of this new product not only provides a new treatment choice for allergic conjunctivitis patients, it is also expected to reduce the frequency of eye itchiness, helping allergic conjunctivitis patients to reduce decline in QOL."

Yasutaka Kuragaki, who is the Head of Japan Pharmaceutical Business Division, at Mitsubishi Tanabe Pharma, said "Mitsubishi Tanabe Pharma sets the MISSION of 'Creating hope for all facing illness.' Mitsubishi Tanabe Pharma has been involved in information provision activities with the antiallergic eye drops "Alesion® LX Ophthalmic Solution 0.1%" and "Alesion® Ophthalmic

Solution 0.05%". Alesion® Cream is a new formulation that is applied to the upper and lower eyelids once daily. Mitsubishi Tanabe Pharma will promote the proper use of Alesion® Cream through information provision activities so that it can become a promising option for patients with allergic conjunctivitis."

Source : Mitsubishi Chemical

STUDY SHOWS BENEO'S PALATINOSE™ STIMULATES THE RELEASE OF GLP-1 IN OVERWEIGHT ADULTS

A new study, led by Prof. Andreas Pfeiffer (Zhang et al. [i]), demonstrates that intake of the naturally sourced, smart carbohydrate Palatinose™ stimulates the release of beneficial gut hormones including GLP-1 in overweight adults, even if its consumption is followed by a meal. The findings show that Palatinose™ (isomaltulose) has a beneficial effect on metabolic parameters that are important for maintaining a healthy body weight, blood glucose control and cardiovascular health.

GLP-1 has beneficial impacts on the metabolism including the reduction of appetite and thereby weight gain. The benefits of the gut hormone are widely studied and drugs mimicking the effects of GLP-1 are used in the treatment of Type 2 diabetes. Some of these treatments have recently gained a huge amount of interest for reducing obesity and are being positioned as 'weight loss' drugs. The findings of this latest study show how Palatinose™ can instead enhance the release of the body's own GLP-1.

The study was designed to explore the effect of Palatinose™, compared to sucrose, on the release of gut hormones. Using a double-blind, randomised, placebo-controlled, cross-over design, the study was undertaken with 30 overweight/obese volunteers, aged between 49 and 77, half of whom had Type 2 diabetes. The participants' blood glucose, insulin and incretins, including GLP-1, were monitored over a nine-hour period.

The first three hours of measurement showed the volunteers' metabolic response to breakfast, with no intervention. At the three-hour marker, a drink containing 50g isomaltulose or 50g sucrose was consumed, followed by lunch one hour later. The results showed that those who had consumed the isomaltulose, even as pre-lunch drink, produced significantly higher GLP-1 levels than those who had ingested sucrose. As demonstrated for the first time, the stronger release of gut hormones with Palatinose™ is not masked by a subsequent meal. Thus, it can be concluded that Palatinose™ promotes the release of gut hormones including GLP-1 even when consumed one hour before a complex meal.

GLP-1 has a beneficial impact on metabolism, including the reduction of appetite and weight gain, and improves blood glucose control. The study findings again show that Palatinose™ influences factors which contribute to a better metabolic state and therefore provides benefits beyond slow released and sustained energy.

Commenting on the findings, Dr Stephan Theis, Head of Nutrition Science at BENEO said:

"Research on metabolism regulating gut hormones is an exciting topic for clinical nutrition and meal replacement applications. This study's focus on older, overweight and obese participants, with or without diabetes mellitus, makes it highly relevant for a large part of the global population. The findings add to the already existing scientific evidence on isomaltulose's ability to support metabolic health in daily life situations, including a higher secretion of the beneficial gut hormone GLP-1 in the general population. Once again, BENEO's slow-release carbohydrate Palatinose™ has been shown to be effective and suitable in product developments for weight management and blood glucose management."

The total of the scientific evidence also supports corresponding structure/function claims in the USA like "Palatinose™ supports an increased release of GLP-1".

BENEO's Palatinose™ (isomaltulose) is a naturally sourced, smart carbohydrate that provides full carbohydrate energy (4kcal/g) in a more balanced way, thanks to its low-glycaemic profile. As a result of its slow-release properties, Palatinose™ reaches the lower parts of the small intestine thereby promoting the release of GLP-1. It is generated through the enzymatic rearrangement of the glycosidic bond between the glucose and fructose linkage in sucrose and is 100% vegan, kosher, halal, non-GMO and non-cariogenic.

Source : Press Release Finder

KBR AND SUMITOMO CHEMICAL FORM TECHNOLOGY LICENSING ALLIANCE FOR SUSTAINABLE PROPYLENE OXIDE PRODUCTION

HOUSTON, May 22, 2024 /PRNewswire/ -- KBR (NYSE: KBR) and Sumitomo Chemical announced today that they have signed an alliance agreement to make KBR an exclusive licensing partner for Sumitomo Chemical's state-of-the-art propylene oxide by cumene (POC) technology. Propylene oxide is an intermediate product used primarily in the further manufacture of polyurethanes. Polyurethane is used in many products such as foams, coatings, adhesives and sealants which serve growing industries such as construction, industrials and automotive.

Sumitomo Chemical's process for propylene oxide production is a unique, environmentally friendly technology that delivers minimal carbon footprint compared to other processes. With lower wastewater generation, and an optimized energy recovery system, this process ensures high propylene oxide yield, and smooth and safe plant operations.

Under the alliance, Sumitomo Chemical's innovative technology will be delivered to a global customer base, enabled by KBR's global marketing reach and engineering capabilities. Additionally, this technology is complementary to KBR's existing, leading phenol technology.

"This alliance combines KBR's proven experience in licensing sustainable chemical processes on a world scale, complemented by Sumitomo Chemical's outstanding expertise in propylene oxide production and a track record of several decades of safe, stable and reliable plant operations globally," said Jay Ibrahim, President, KBR Sustainable Technology Solutions. "Sumitomo Chemical's POC technology not only delivers the co-product-free pathway to produce propylene oxide but also significantly reduces carbon emission through the recent enhancement of its energy efficiency features. This aligns with KBR's vision and commitment towards providing sustainable solutions to its customers."

"Sumitomo Chemical is proud to partner with KBR to provide this exceptional and environmentally friendly technology to clients worldwide, through which they can accelerate their sustainability goals while maximizing the value of their propylene derivatives," said Seiji Takeuchi, Sumitomo Chemical's Senior Managing Executive Officer for the Essential Chemicals & Plastics Sector. "KBR's extensive licensing and engineering expertise provides Sumitomo Chemical with a world-class partner to expand its pacesetting technology to a wider market."

Source : PRNewswire

EVONIK'S NEW TEGO® GUARD 9000 FOR EXTERIOR AND FACADE PAINTS WINS RINGIER TECHNOLOGY INNOVATION AWARD

TEGO® Guard 9000, a new technology for exterior wall paints, has been recognized for its unique quick-set property with the Ringier Technology Innovation Award – Coating Industry, a prestigious award for innovation in the coatings industry that has been presented since 2006.

- Acclaimed for its excellent quick-set property, the product provides high rain resistance within minutes.
- Fast weather resistance, improved durability and extended protection for building and facades.
- The award was presented at the Ringier Coating Summit in Shanghai on May 31.

Shanghai, China. TEGO® Guard 9000, a new technology for exterior wall paints, has been recognized for its unique quick-set property with the Ringier Technology Innovation Award – Coating Industry, a prestigious award for innovation in the coatings industry that has been presented since 2006. The jury praised Evonik's new technology, which improves the stabilization of paint ingredients in facade coatings directly after application, providing almost immediate protection against weathering.

The quick-set property of TEGO® Guard 9000 is achieved by electrostatic interaction between a cationic organic polymer and the anionic paint ingredients in the coating formulation. This provides high rain resistance within minutes of application, reduces the moisture content of substrates and surfaces, and inhibits moss and mold growth. TEGO® Guard 9000 can be incorporated into coating formulations without compromising storage stability and can be used in a wide range of latex systems, different PVCs and color formulations.

"TEGO® Guard 9000 is a breakthrough technology for exterior wall paints," said Dr. Katina Kiep, Head of Global Decorative Coatings market segment at Evonik Coating Additives. "With its quick-set property, it provides a sustainable solution for architectural facade coatings, reducing the impact of weathering on the application process and increasing the durability and long-term protection. We are honored to receive this award and extremely proud of the ingenuity our team demonstrated in developing this product."

TEGO® Guard 9000 has a very low VOC content and meets the requirements of eco-labels, making it suitable for use in eco-label complaint sustainable waterborne coating formulations. Protecting buildings from the environment is a universal requirement for exterior wall paints, and TEGO® Guard 9000 meets this need with its advanced technology.

Evonik's Coating Additives business line provides a broad range of specialty additives for the coatings and inks sector. The business has decades of expertise in pioneering products for a range of coatings markets, including decorative coatings, industrial coatings, automotive coatings, and printing inks.

Source : Evonik

LUMMUS AND SUMITOMO CHEMICAL ANNOUNCE COLLABORATION AGREEMENTS FOR CIRCULAR AND POLYOLEFINS TECHNOLOGIES

HOUSTON and TOKYO, May 21, 2024 — Lummus Technology, a global provider of process technologies and value-driven energy solutions, and Sumitomo Chemical announced two collaboration agreements to license and commercialize the following proprietary technologies:

1. Sumitomo Chemical's proven low-density polyethylene/ethylene vinyl acetate (LDPE/EVA) production technology

1. Sumitomo Chemical's highly efficient poly methyl methacrylate recycling (rPMMA) technology

With Lummus as the exclusive and worldwide licensor of both technologies, Sumitomo Chemical's innovative technologies will be delivered to a global customer base, supported by Lummus' global marketing reach and engineering capabilities. Lummus and Sumitomo Chemical will further develop the rPMMA technology, leveraging the progress already made at Sumitomo Chemical's pilot plant in Japan, to achieve early commercialization of the technology and contribute to a more carbon-neutral society.

"Lummus is honored to partner with Sumitomo Chemical to combine their polyolefin technology leadership and operational excellence with our global marketing, licensing and design expertise," said Leon de Bruyn, President and Chief Executive Officer, Lummus Technology. "Additionally, we are committed to leveraging our collective strengths in the circular economy to scale up technologies like rPMMA to target efficient recycling using end-of-life materials. With the expansion of our polyolefins portfolio Lummus is strategically positioned to provide the most comprehensive platform of solutions to convert various feedstocks to final polymers."

"Sumitomo Chemical is pleased to collaborate with Lummus through the provision of our innovative and environmentally friendly technologies, in furtherance of our green transformation initiatives, which

include achieving carbon neutrality, biodiversity

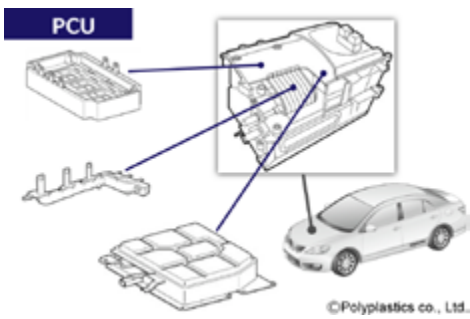
conservation and positively contributing to the society," said Seiji Takeuchi, Sumitomo Chemical's Senior Managing Executive Officer for the Essential Chemicals & Plastics Sector. "With a portfolio that includes a range of competitive technologies for ethylene production and a wide range of the polymer technologies that are highly compatible with our LDPE/EVA and rPMMA technologies, coupled with their strong marketing and development capabilities, Lummus is the ideal partner to expand our technologies worldwide."

Source : Lummus Technology

NEW PRODUCTS

POLYPLASTICS LAUNCHES DURAFIDE (R) PPS 1140HS6 -- NEW GLASS-FILLED PPS GRADE WITH IMPROVED THERMAL SHOCK RESISTANCE

TOKYO, May 14, 2024 /PRNewswire/ -- Polyplastics Co., Ltd., a leading global supplier of engineering thermoplastics, has announced the launch of a next-generation polyphenylene sulfide (PPS) grade that boasts significantly improved thermal shock resistance and can be easily recycled during post-consumer recycling (PCR) without sorting. DURAFIDE (R) PPS 1140HS6, a 40% glass-filled grade, meets the requirements for metal insert molding, particularly busbars for electric vehicles (xEVs).



DURAFIDE (R) PPS 1140HS6 can be easily collected without being separated from other PPS components during recycling. Polyplastics has employed a material design technique to ensure thermal shock resistance by minimizing residual strain during molding and homogenizing linear expansion to mitigate internal stress. As a result, thermal shock resistance has been improved while retaining mechanical and other essential properties.

DURAFIDE (R) PPS 1140HS6 eliminates molding imperfections and enhances performance without the need for impact modifiers in xEV busbar applications. Insert molded xEV components conduct high-voltage currents in various electrical parts and their complex shapes make them susceptible to cracking. They are usually made up of a metal that conducts electric power and PPS resin that functions as a coating for insulation. This cracking problem is caused by repeated heating and cooling and subsequent rapid temperature changes. This is a significant issue, leading to insulation failure, particularly in the critical parts of xEVs that conduct high-voltage currents.

The typical solution is to add impact modifiers to PPS. Still, this approach has drawbacks, such as a reduction in material strength and the tendency for gases and mold deposits to emerge during molding. Additionally, materials containing impact modifiers are incompatible with the growing trend of material recycling.

The newly developed DURAFIDE (R) PPS 1140HS6 resin offers better flowability during injection molding than standard materials. This makes it an ideal choice for molding both thin-wall and large products.

Source : Polyplastics Co., Ltd.

ASAHI KASEI TO PRESENT FUNCTIONALIZED HSBR AND THERMOPLASTIC ELASTOMER SOLUTIONS AT DKT

The Japanese technology company Asahi Kasei will present new high-performance materials for automotive applications at the German Rubber Conference DKT - the leading trade fair for the rubber and elastomer industry in Europe – from July 1-4, 2024, in Nuremberg, Germany.

At the DKT 2024, Asahi Kasei will pres-

ent its newly developed hydrogenated solution styrene butadiene rubber (HSBR). By applying selective hydrogenation, this material offers a remarkable combination of characteristics, as it retains some of the desirable properties of an SBR, such as good processability and compatibility, while also benefiting from an improved resistance to heat, aging, and chemicals due to the hydrogenation process.

In addition, recent studies show that the functionalized HSBR has the possibility of contributing to reducing the usage of 6PPD, an antioxidant used to protect the polymer from rapid aging. Recent studies have shown that 6PPD can break down into a harmful substance called 6PPD-quinone and upon contact with water, the quinone compound becomes toxic for the environment. Furthermore, hydrogenation also increases the hardness of the rubber, potentially reducing the need for filler materials such as silica or carbon black.

Functionalized and selectively hydrogenated SBR opens a horizon with applications ranging from performance tires to non-tire applications such as belts, hoses, and rubber products that require enhanced durability and performance.

Source : Indian Chemical News

KYLIE COSMETICS LAUNCHES AT ULTA BEAUTY AT TARGET, FEATURING AN ASSORTMENT OF KYLIE'S MOST ICONIC LIP PRODUCTS

NEW YORK, June 6, 2024 /PRNewswire/ -- Beginning June 9, international beauty brand, Kylie Cosmetics, will debut at Ulta Beauty at Target with a curated collection of Kylie's most iconic and bestselling lip products such as Matte Lip Kit, Tinted Butter Balm, and High Gloss. A limited assortment will be available online at target.com/ultabeauty the same day. This exciting partnership marks a significant moment for beauty enthusiasts, bringing the renowned products closer to fans nationwide.

After originally launching direct-to-consumer in 2015, Kylie Cosmetics debuted in physical retail at Ulta Beauty in November 2018 with a permanent product offering, available in every store location across the country. The expansion of Kylie Cosmetics into Ulta Beauty at Target is a key milestone for the brand's important and strategic partnerships with both retailers.

"We are excited to launch Kylie Cosmetics at Ulta Beauty at Target – I created Kylie Cosmetics to give access to the makeup products that I love and use, and I can't wait to give more people the opportunity to shop and experience our products in-store across the country," said Kylie Jenner.

"We know so many beauty enthusiasts love Kylie Cosmetics, so I can't wait for them to see the special collection curated just for Target," said Rick Gomez, Target's executive vice president and chief food, essentials and beauty officer. "Through Ulta Beauty at Target, we're offering Kylie's best selling items including the Matte Lip Kit, High Gloss and more. This kind of prestige experience is what makes our partnership with Ulta Beauty so special. And we're excited to continue building on the power that comes from bringing our brands together to change the way people shop beauty."

"As Kylie Cosmetics' first-ever retail partner, we're so thrilled to support the brand's continued growth and expansion as it makes its debut at Ulta Beauty at Target," said Monica Arnaudo, Chief Merchandising Officer, Ulta Beauty. "We've been proud partners since 2018 and through this added touchpoint, we're creating even more convenience for guests to shop and discover prestige beauty offerings from one of the most beloved brands in beauty. This next phase for Kylie Cosmetics underscores its strong resonance with beauty enthusiasts everywhere and exemplifies the unique possibilities that can come to life through our partnership with Target."

In 2015, Kylie Jenner embarked on her beauty business with the launch of Kylie Lip Kits - a collection of three liquid lipsticks with corresponding lip liners. Since then, Kylie expanded her beauty empire with 400+ SKUs across eye, complexion, and countless innovations in lip. In 2021, supported by global beauty powerhouse Coty, Kylie Cosmetics relaunched with new and improved formulas that are carefully crafted with clean and vegan ingredients that deliver on trend, high-quality, high-pigment, and high-performance formulations that fans around the world have come to love. The beauty empire is now available around the world in over 50 countries

Source : PRNewswire

LG CHEM AND ALKHORAYEF GROUP FORGE A BUSINESS PARTNERSHIP TO DELIVER ADVANCED WATER SOLUTIONS TO THE KINGDOM OF SAUDI ARABIA

Seoul, May 1, 2024 – LG Chem, a leading global chemical company headquartered in South Korea with a diversified business portfolio in the key areas of petrochemicals, advanced materials including water solutions, and life sciences, and Alkhorayef Group, a leading Saudi Arabian industrial con-glomerate specializing in water, energy, and agriculture sectors, agreed to form a partnership to bring advanced water solutions to the Kingdom of Saudi Arabia (KSA).

Firstly, both parties will establish a Reverse Osmosis (RO) membrane production facility and tech-nical center in the KSA. The collaboration leverages LG Chem's cutting-edge technical expertise in RO membranes and Alkhorayef Group's long-standing industrial legacy and local expertise derived from its position as one of the most respectable private companies in the KSA. Aiming to commence the production facility and the technical center from the outset of 2026, both parties are dedicated to delivering high-quality products to address the increasing local RO membrane demand in the region. This collaboration extends beyond production and R&D, encompassing joint efforts in sales and mar-keting activities for RO membranes, as well as exploring new business opportunities within the related water industry. The partnership will also actively explore the localization of full membrane manu-facturing in the KSA, and foster discussions on advancement of the local water industry. Both parties are committed to contributing to the sustainable development of the region by addressing pressing needs on innovative water solutions.

"We at Alkhorayef Group are thrilled to announce our partnership with LG Chem, a leading water de-salination technology provider, to establish a Reverse Osmosis membrane manufacturing facility. This strategic investment opportunity aligns with the goals of Saudi Vision 2030. The partnership aspires to contribute to the localization of strategic industries, in addition to the non-oil sector GDP. We believe that our long market standing and ability to build relationships and alliances will be of great advantage for this partnership. We look forward to embarking on this new horizon with LG Chem and working together towards a brighter future for the Kingdom's water sector", said Mohammed Alkhorayef, Group CEO at Alkhorayef Group.

"We are excited about the potential this collaboration holds for creating a positive impact to achieve Vision 2030 in the Kingdom of Saudi Arabia. This partnership symbolizes the fusion of two rich cultures, two distinct expertise, and two shared visions for the future. Together with Alkhorayef Group, we not only seek to meet the demands to localize RO membranes, but also look forward to delivering innovative solutions to contribute development of water industry in the region, for the future of the Kingdom of Saudi Arabia." stated Dr. Hoon Hyung, Vice president at LG Chem.

Alkhorayef and LG Chem are confident that this strategic partnership will play a pivotal role in advancing technological solutions for water treatment and contribute to the overall development of the region.

Source : LG Chem

PRIME LITHIUM AND IBC PARTNER TO PRODUCE CARBON NEUTRAL LITHIUM AND CLEAN WATER IN WYOMING

ROCK SPRINGS, Wyo., April 30, 2024 /PRNewswire/ -- Prime Lithium LLC ("Prime") has entered into a strategic partnership with IBC Advanced Technologies, Inc. ("IBC") to develop a large-scale battery-grade lithium hydroxide and carbon storage project in Wyoming, U.S.A. utilizing IBC's proprietary Direct Lithium to Product™ ("DLP™") process. The DLP™ process provides a rapid, direct route to produce environmentally friendly battery-grade lithium end-products. The partnership aims to initially produce 8,000 tonnes per annum lithium hydroxide with plans to expand production to 35,000 tonnes per annum and to geologically store large volumes of carbon dioxide while pro-

ducing clean water for the region

Project Sweetwater (100% Prime) seeks to deliver American domestically produced Lithium, in a sustainable, environmentally responsible manner, which will add to the overall value chain servicing the nation's electric vehicle, devices, and grid energy storage sectors. What makes the Sweetwater project unique is the ability to cost effectively produce battery-grade lithium hydroxide in a way that is both carbon neutral and generates clean water for local use. Project Sweetwater seeks to provide long term employment, incorporating strong workforce training and development. Once completed, the impact of the Sweetwater Project on Wyoming will be significant, with the potential to make a real impact broadly across the nation.

Prime Lithium aims to develop Project Sweetwater to become a leading critical mineral operation with unparalleled environmental and social credentials. For every 1 kg of battery grade lithium hydroxide produced, the project will create 22 tonnes of carbon dioxide disposal and storage capacity and approximately 370,000 gallons of clean water, with minimal waste. Uniquely, the project's lithium product will be supplied with attaching carbon and water offsets, enabling manufacturers to provide battery components that are carbon-neutral and water-neutral into their products.

With an estimated 1.8 billion tonnes of brine mineral resource and targeting over 5 billion tonnes of brine, the Project is expected to be one of the largest lithium hydroxide production centers in the world, as well as one of the largest carbon storage projects globally. Importantly, the Project's innovative process methodology can assist in alleviating pressure on the Colorado River System so it can continue to serve as an economic artery of the region, including powering massive hydroelectric dams required for the energy transition. The Project has an initial clean water resource of 4 billion gallons with scale to increase this strategic resource to 558 billion gallons.

Uniquely, the multibillion-dollar project has already well-established infrastructure including 'Direct to Market' rail and interstate highway to all major battery plant centers and other U.S. customers. With 'on lease' road, rail, gas, fuel, power, communications and a Federal and State approved CO2 corridor, Project Sweetwater is near build ready, with production trials scheduled for later this year.

The unparalleled market opportunity of the project is largely made possible by the innovative DLP™ process which consumes little to no water, is highly energy-efficient and has been demonstrated at large pilot scale in Chile to directly produce battery-grade (99.5%) lithium hydroxide with non-detectable levels of magnetic and other impurities. Importantly, the process does not require the need to first produce lithium carbonate resulting in high yielding (99% overall recovery) operations.

Steven R. Izatt, President and CEO of IBC commented, "We are very pleased to be partnering with Prime Lithium to bring to market such an important Project for America, both in terms of its environmental credentials and the strategic need for domestic critical mineral supply. The highly water and energy efficient DLP™ process produces green lithium, which is critical to sustainability. Application of the DLP™ process to Project Sweetwater's North American brine resource will complement the success we have achieved in South America and further demonstrate the wide applicability of the DLP™ process."

Tim McManus, Managing Director of Prime Lithium commented, "Prime Lithium seeks to utilize a closed-loop, modular production system to produce battery grade lithium and clean water from a minimal operational footprint for the disposal and storage of carbon. Such leadership in the decarbonization of the critical mineral supply chain naturally attracts Tier 1 partners such as IBC. Our strategic partnership with IBC places Project Sweetwater at the forefront of the energy transition and in the top echelon of climate action projects globally. It is a significant step forward as we selectively search for build capital partners to commence production as early as 2026, particularly those who value large-scale, long-term, and ethically sourced lithium supply."

Source : Prime Lithium

HIF GLOBAL SELECTS JOHNSON MATTHEY'S METHANOL TECHNOLOGY FOR THE LARGEST E-METHANOL PLANT IN SOUTH AMERICA

- JM's eMERALD™ technology selected for HIF Global's Paysandú eFuels facility which will support the decarbonisation of the marine and automotive sectors.
- Located in Uruguay, it would be the largest e-methanol plant in South America with an expected production capacity of 700,000 tonnes per year of e-methanol.
- This project will be the 11th sustainable technologies project win using JM's sustainable technologies since April 2022.

LONDON, May 16, 2024 /PRNewswire/ -- Johnson Matthey (JM), a global leader in sustainable technologies, has been selected by HIF Global, the world's leading eFuels company, as the methanol licensor for HIF Global's Paysandú eFuels project in Uruguay. The facility would be the largest e-methanol plant in South America and will use electrolytic (green) hydrogen and waste CO2 from an ethanol plant to produce e-methanol. E-methanol, through use of renewable feedstocks, enables the production of a lower carbon fuel versus traditional methanol[1].

JM's e-methanol eMERALD™ technology has been proven as a credible route to decarbonise methanol production[1] and this technology will be deployed at the HIF Paysandú eFuels facility, with expected production capacity of 700,000 tonnes per year of e-methanol. The e-methanol will be utilised to support the rapidly growing demand from the marine market, as well as a feedstock to produce e-gasoline (via a methanol to gasoline process) which will facilitate the decarbonisation of over 150,000 vehicles.

This collaboration builds on the successful demonstration of the eMERALD technology in the HIF Haru Oni eFuels facility, where JM licenses its technology and supplies the catalyst. The demo plant has successfully operated for over 12 months, producing methanol that is further processed into gasoline.

Additionally, HIF Global has announced other planned eFuels projects to be built in the US, Tasmania, and Chile. JM is already working with HIF Global to support the development of these projects.

HIF Global will invest $4 billion in the facility, making it the most significant investment in Uruguay's history. Construction of the plant is planned for 2025 and is expected to create approximately 1,500 jobs during construction with an additional 300 permanent operational positions.

Alberto Giovanzana, Managing Director – CT Licensing at Johnson Matthey, said: "The market for sustainable methanol fuels is growing rapidly and presents an important solution to decarbonise the shipping, road transport, and other industries. As the world's leading methanol synthesis technology and catalyst supplier, JM has a great wealth of experience working in the methanol industry. We look forward to continuing our partnership with HIF to provide our e-methanol technology for this exciting project."

Victor Turpaud, CEO HIF Latam, said: "eFuels are a replacement for fossil fuels and are a necessary solution for decarbonising global transport. We have already demonstrated the capability to produce eFuels with green hydrogen and recycled CO2, using Johnson Matthey's technology at our Haru Oni eFuels facility in southern Chile. Expanding our collaboration with Johnson Matthey represents the importance of long-term relationships to HIF and to achieve our common goals".

Source : PRNewswire

PALMDALE OIL ANNOUNCES NEW DISTRIBUTION PARTNERSHIP WITH CASTROL IN FLORIDA

PALM BEACH GARDENS, Fla., May 16, 2024 /PRNewswire/ -- Palmdale Oil ("Palmdale"), a leading provider of fuels, propane, lubricants, and chemicals with delivery solutions across the state of Florida, today announced a new distribution partnership with Castrol, one of the world's leading lubricant brands.

Through this partnership, Castrol's range of high-quality lubricants will be

added to Palmdale's leading distribution platform, further enhancing the company's value-add offerings and ability to meet the specific needs of commercial and industrial customers across the state of Florida. This groundbreaking collaboration will launch a new era of innovation and service excellence, while fortifying Palmdale and Castrol's shared commitment to driving the automotive and heavy-duty oil sectors forward.

Bruce Tripido, VP of Sales for Castrol, expressed his enthusiasm about the collaboration, stating, "We are incredibly excited to welcome Palmdale Oil into the Castrol family. Their expertise and reputation for excellence align perfectly with our strategy. 2024 marks a momentous 125th anniversary milestone for Castrol; as a company we have embraced change and pushed boundaries for 125 years, and this collaboration with a pioneering business like Palmdale keeps us moving forward."

Lach Cheatham, CEO of Palmdale, shared his excitement, remarking, "Castrol is a global lubricants leader that shares our relentless commitment to elevating customer experiences, pioneering innovation, and driving sustainable growth. Combining Castrol's reliable and world-renowned product portfolio with our local distribution expertise allows us to provide a more comprehensive suite of tailored solutions. As we celebrate 40 years of serving the commercial fuel needs of customers across Florida, this collaboration will expand our product portfolio with one of the world's most respected lubricant brands, and we are excited to build on this partnership with the Castrol team in the years ahead."

Source : PRNewwire

AIR PRODUCTS TO SHOWCASE INDUSTRIAL GAS SOLUTIONS AT THE POWDERMET2024 INTERNATIONAL CONFERENCE ON POWDER METALLURGY AND PARTICULATE MATERIALS

LEHIGH VALLEY, Pa., June 13, 2024 /PRNewswire/ -- Air Products (NYSE:APD) will showcase industrial gas solutions and technologies for metals and materials processing applications at the PowderMet2024 International Conference on Powder Metallurgy and Particulate Materials from June 16-19 at the David L. Lawrence Convention Center in Pittsburgh, Pennsylvania.

Those attending are invited to stop by Air Products' booth #308 to speak with an industry specialist and learn how Air Products' industrial gases, technologies, and supply solutions can help metal processors improve product quality, reduce operating costs, increase production and optimize gas usage. Air Products' Smart Technology intelligent systems can help take the guesswork out of sintering, annealing, brazing, hot isostatic pressing, metal injection molding and 3D printing.

In addition, Liang He, an Air Products Senior Engineer, Advanced Technology, will host a technical session titled "Smart Solutions to Improve Sintering Atmosphere and Process" at 11:25 a.m. on Tuesday, June 18 in room 315 of the convention center.

PowderMet2024 is the leading technical conference on powder metallurgy and particulate materials in the Americas and a hub for technology transfer for professionals from every part of the industry, including buyers and specifiers of metal powders, tooling and compacting presses, sintering furnaces, furnace belts, powder handling and blending equipment, quality-control and automation equipment, particle-size and powder-characterization equipment, consulting and research services.

For more than 50 years, metals processors around the world have relied on Air Products' industrial gases, gas atmospheres, equipment and technical support. Air Products provides industrials gases including nitrogen, oxygen, argon, helium and hydrogen, gas handling equipment and technology, additives, global supply capability and unmatched industry experience and technical know-how to help organizations succeed.

For more information on how Air Products' industrial gases and expertise can assist metals and materials processors visit Air Products' Metals Processing Knowledge Center.

Source : PRNewswire

Continued from Pg 32
very soon.

What are the possibilities?

Enhancement of material properties:

Several companies have been involved in research and development post this innovation. It is expected that the research could even lead to more optimized formulations including some developments and improvements in the mechanical properties, the durability and performance of the rubber composites.

With the advent of nano-technology and its capability of enhancing the properties of rubber materials, the cutting-edge approach is expected to further push the development.

For instance, nanomaterials such as carbon nanotubes, graphene, nanoclays, and silica nanoparticles, can be incorporated into the rubber matrices that help in improving the tensile strength, thermal stability and resistance to wear and tear.

Improvement in cost-effectiveness:

Scaling up the production helps in reducing the costs and bringing in the product to a wide range of applications.

This also includes streamlining the supply chains for bio-silica and other sustainable materials to enhance consistency and cost-effective sourcing.

Conclusion:

Kumho Petrochemicals' initiative has set a benchmark for the industry and has encouraged several companies to bring in sustainable practices in the manufacturing sector. Additionally, the success of the innovation has opened doors for further development and research related to the aspect. Considering the welcoming attitude of environmentally conscious consumers, several companies have brought themselves forward to invest in sustainable technologies and practices.

Source : Vinodini Harish

SPIC Announces Quarter and Year Ended 31st March 2024

Registers annual turnoverof INR 1943.86 crores and Profit of INR 87.91croresin FY24

Announces a dividend of 15% on Equity Capital

Financials:

Today, Southern Petrochemical Industries Corporation Ltd. (SPIC), one of India's pioneering agri-nutrient and fertilizer companies, announced its annual audited results for FY 2023 – 24.

Quarterly and Annual Results:

Particulars	figures in INR Crores			
	Quarterly (Jan – Mar)		Annual (Apr-Mar)	
	31-03-24	31-03-23	31-03-24	31-03-23
Total Income	132.46	676.34	1962.16	2849.45
Profit Before Exceptional Item	4.32	38.85	191.60	299.76
Profit After Exceptional Item and before Tax	(44.29)	38.85	142.99	299.76
Profit after Tax	(29.18)	23.53	87.91	284.44

In the last quarter of FY24, the Company registered an income of INR 132.46croresand net loss after taxof INR (29.18)crores compared to an income of INR 676.34croresand net profit after tax of INR 23.53croresduring the corresponding quarter of the previous year.

Due to heavy rain and flood in Tuticorin, the Company's plant at Tuticorin was shut down for 77 days in last quarter, which lead to reduced turnover &net loss in the quarter. The Company had made claims with Insurance companies for the 'Loss of Profit' and the claims will be recognized on receipt basis.

In the year ended March 2024, the Company earned a total income of INR 1962.16crores compared to INR 2849.45crores during the previous year. During the year, the Company recorded anet profit after taxofINR 87.91croresvis-a-visnet profit after tax of INR 284.44croresin the previous year.

The Board of Directors have recommended a dividend of 15 % (Rs.1.50 per share) on Equity Capital.

Leadership Comment:

Mr Ashwin Muthiah, Chairman – SPIC&Founder Chairman, AM International, Singapore

"The financial results were impacted by various factors, including severe floods in December. Despite operational challenges, our ability to resume and normalize operations in a time-bound manner underscores our operational resilience. Transitioning to natural gas as a raw material source was a significant step this year, and we're accelerating our focus towards sustainable manufacturing and carbon-neutral goals. As our CAPEX plans get implemented, we foresee capacity expansion and initiatives aimed at profitable growth in the future. We are committed to the Government of India'sAtmanirbhar Bharat program and green fertilizer focus, continuing with our aim to serve our farmer community."

Fertilizer sector overview:

In 2023, India saw a significant 21.3% drop in urea imports to 7.41 million tonnes, according to S&P Global Commodity Insights. This decline was due to increased domestic production, whichrose by 13.4% to 31.11 million tonnes compared to the previous year. Urea availability andsales in 2023 continued to rise steadily, with availability increasing by 3.65% to 41.16 milliontonnes and sales by 3.25% to 38.11 million tonnes.

In a bid to boost crop yields and meet the needs of various plantings, the Ministry of Agricultureand Farmers Welfare recently updated the Fertiliser Control Order of 1985. This revisionincludes a wider variety of fertiliser options, giving farmers more tools to address unique soilproblems and ensure healthier plants.

Source : Chemical Market

Beyond Rust The Versatility Of Stainless Steel

Introduction

Stainless steel has become more than a material; it is a symbol of reliability and resilience. From the shimmering facade of skyscrapers to the sterile precision of surgical instruments, and the enduring quality of everyday objects, stainless steel had woven itself into the very fabric of modern life. It has a sheen that speaks of elegance and durability. Discovered in the early 20th Century it has evolved over the years and is used in diverse applications. Described in this article are the important Stainless Steel properties and Stainless Steel types

Process

Iron ore along with coke and limestone is fed into a blast furnace, and hot air is blasted into the mixture. A reduction reaction occurs, producing molten iron or pig iron, which contains a high percentage of carbon and impurities such as silicon, manganese and sulphur. The molten pig iron is poured into a vessel called an LD (Lintdz Donowitz) converter or BOF (Basic oxygen furnace), where high-purity oxygen is blown through it. This oxidizes the carbon and other impurities producing molten steel with low carbon content. Alloying elements like chromium, nickel, manganese, and molybdenum, are added to achieve specific characteristics. A secondary refining process is then conducted in an Argon Oxygen Decarburization (AOD) furnace, where argon and oxygen are blown into the molten steel, further reducing the carbon content and refining the composition. This process helps in precisely controlling the levels of carbon, chromium and other metals. If ultra-low carbon content is required, the Vacuum Oxygen Decarburization (VOD) process is used. The refined molten stainless steel is cast into semi-finished shapes like blooms, billets or slabs. To obtain a finished saleable product like sheets, the slabs are hot rolled, and then cold rolled in mills to form coils. An annealing process follows to relieve stresses, followed by a pickling process to remove surface oxide scales. The sheets are then slit, cut and stacked for packing and despatch.

Stainless Steel Types

Stainless steel is a versatile material used in a wide range of applications due to its corrosion resistance, strength, and durability. There are several types of stainless steel, classified primarily based on their crystalline structure. Here are some of the primary categories :

Austenitic Stainless steel - Has austenite as a primary micro-structure. Can be used at elevated temperatures. It cannot be strenghened through heat treatment and is non-magnetic. Contains about 16% Chromium, 8% nickel and 2-3 % molybdenum for corrosion resistance. About 70% of the stainless steel produced is in this category.

Ferritic Stainless Steel - Only 10.5 to 18% Chromium is used as an alloy and is magnetic in nature. Provides good resistance to stress corrosion but has poor fabrication characteristics. Heat treatment does not help in hardening.

Martenistic Stainless Steel - This type contains a higher level of carbon and a reduced amount of chromium. Can be heat treated to improve hardness but has poor weldability.

Duplex Stainless Steel - It is a combination of Austenetic and Ferritic stainless steel. With high Chromium and low nickel percentages, it offers high tensile strength and good weldability in addition to making it a good Corrosion resistance alloy.

Precipitation hardening Stainless Steel - Combines the properties of Austenetic and Martenistic stainless steel. Increased hardening is achieved by adding elements such as aluminium, molybdenum, niobium, titanium, copper, etc. High tensile strength can be achieved through heat treatment. Used in high-stress applications.

Grades and Applications

The term "stainless steel" is used to describe a family of about 200 alloys of steel with remarkable heat and corrosion-resistant properties. The carbon percentage can range from 0.03 to 1.2%. Its distinguishing property is the high amount of chromium that enhances its corrosion resistance, and strength, and making the alloy rustproof, which is among the most important Stainless Steel Properties.

In India the standard IS 6911: 1992 is widely followed. This defines the types, chemical analysis, mechanical properties, corrosion resistance and dimensional tolerances. However, AISI Stainless Steel Grades are generally used to classify stainless steel types as listed below :

200 Series - A chromium manganese alloy with low nickel content. Used in washing machines, cutlery, food and drinks equipment.

300 Series - Most widely used Austentic stainless steel, with nickel and molybdenum as alloying elements. Good for corrosion resistance in acidic environments due to the presence of molybdenum and higher ductility due to nickel. Common grades are 304 and 316. Used in Food and beverage containers, automotive industry, medical instruments, jewellery and structural members.

400 Series - Comprises ferritic and martensitic alloys. Can be heat treated. Provides both strength and wear resistance though corrosion resistance is comparatively lower. Used in agricultural equipment, motor shafts and Gas turbine parts.

SAE grades are also used for classifications.

Market Scenario

Presently the market size in India is estimated to be Rs 1,31,840 Crores with

a CAGR of 6.2% up to 2034. The main sectors contributing to this growth are the construction and automotive industries. Much of the stainless steel is recycled, which makes it a relatively eco-friendly material. About 43% of the Stainless Steel Manufacturing is located in western India due to its proximity to major ports for the import of alloying elements. Further, western India is also a major consumer and exporter. Austentic stainless steel is the most widely used type amounting to nearly 73%. Major producers like Arcelor Mittal, Jindal Stainless Ltd, and Nippon Steel have a substantial share of about 53%, with the balance shared by many other manufacturers. Major players are investing in research and development in the area of high-grade stainless steel with enhanced corrosion resistance and other special features.

Conclusion : Stainless steel has become more than a material; it is a symbol of reliability and resilience. In the shimmering facades of skyscrapers, the sterile precision of surgical instruments, and the enduring quality of everyday objects, stainless steel had woven itself into the fabric of modern life. We can expect continued innovation in this field driven by technological advancements

Source : Team Chemical Market

Atmanirbhar Bharat A Chemical Reaction For Indian Self-Reliance

The Indian chemical industry, a significant contributor to the nation's manufacturing sector, is undergoing a crucial transformation driven by the "Atmanirbhar Bharat" (Self-Reliant India) initiative. This ambitious program, launched in 2020, aims to bolster domestic production and reduce dependence on imports across various sectors, with chemicals being a key area of focus. Let's delve into how this initiative is creating a positive chemical reaction for Indian companies.

The Landscape of Indian Chemicals
The Indian chemical industry is a powerhouse, valued at roughly USD 178 billion and projected to reach USD 300 billion by 2025. It boasts a growth rate of 10% annually, encompassing over 80,000 products and contributing a significant 18% to the country's manufacturing output and 14.35% to total exports. However, a substantial portion of the industry relies on imports, particularly for specialty chemicals.

The Need for Self-Sufficiency

The dependence on imports presents vulnerabilities. Global disruptions, like the COVID-19 pandemic, can affect supply chains and lead to price fluctuations. Additionally, a strong domestic chemical sector is critical for various downstream industries like pharmaceuticals, textiles, and agriculture.

Atmanirbhar Bharat: A Catalyst for Change

The Atmanirbhar Bharat initiative recognizes these challenges and aims to create a more self-reliant chemical sector. Here's how it's serving as a catalyst for change:

- Focus on Specialty Chemicals: A core aspect of the initiative is to ramp up production of specialty chemicals, which have high-value applications and are currently import-heavy. This includes fine chemicals, agrochemicals, and specialty polymers.
- Boosting Domestic Manufacturing: The government is providing incentives for domestic companies to set up new manufacturing facilities. This includes tax breaks, easier access to credit, and simplified regulatory processes.
- Innovation and R&D: Promoting research and development (R&D) is crucial for developing indigenous technologies and creating new chemical products. The government is encouraging collaboration between academia and industry to foster innovation.
- Infrastructure Development: Building robust infrastructure, including dedicated chemical industrial parks and improved logistics networks, is essential for streamlining production and transportation.

The Road Ahead: Opportunities and Challenges

The Atmanirbhar Bharat initiative presents exciting opportunities for domestic chemical companies. Here are some key aspects to consider:

Market Size and Growth Potential: The Indian chemical market is expected to witness significant growth in the coming years, fueled by factors like rising disposable incomes and increasing urbanization. This translates to a vast and expanding market for domestic players.
Import Substitution: By reducing reliance on imports, Indian companies can capture a larger share of the domestic market and potentially become export giants themselves.

Job Creation: The growth of the domestic chemical industry has the potential to create significant employment opportunities for chemists, engineers, and other skilled professionals.

Challenges to Address

Despite the promising outlook, there are challenges to overcome:

- Technological Advancement: Bridging the technological gap with established chemical producers is crucial. Encouraging R&D and technology transfer can address this.

- Cost Competitiveness: Indian companies need to optimize production processes and improve efficiencies to compete effectively with established global players on price.

- Skilled Workforce: The industry requires a skilled workforce equipped with the latest knowledge and expertise. Skilling initiatives and industry-academia partnerships are essential to address this need.

Conclusion: A Chemical Reaction for Progress

The Atmanirbhar Bharat initiative is a significant step towards a self-reliant and robust Indian chemical sector. By focusing on specialty chemicals, fostering innovation, and building a strong domestic manufacturing base, the initiative presents a plethora of opportunities for Indian companies. However, addressing challenges like technological advancements, cost competitiveness, and workforce development will be crucial for its long-term success. This self-induced chemical reaction has the potential to propel India as a global leader in the chemical industry, fostering economic growth and creating a ripple effect across various sectors.

Source : Team Chemical Market

Styrene Production Demand And Its Impact On The Chemical Industry

1930s. That's when styrene was first ever produced commercially—Styrene is – a popular monomer and essential chemical commodity used in producing polystyrene and copolymers. Understanding the impact of styrene production on the chemical industry requires an understanding of various aspects and cascading effects from different sectors. In this article, we have discussed the interdependence, market and economic influence, technological advancements, sustainability and trends related to styrene production. If you are interested in knowing how styrene production and consumption are adapting to the changes, and shaping the research, development and investments within the industry, you have to the right place. Let's begin.

Impact of styrene on the chemical industry:

Styrene has good product characteristics and is utilized for several applications as it combines both rubber and plastic features. About 7 million tons of Styrene is globally produced annually as the chemical component plays a crucial role in multiple sectors. The majority of styrene is utilized for the production of polystyrene, ABS resins, SBR, UBR and other applications. Industries are also experiencing drift in terms of sustainability, technology, and regulatory compliance. Therefore, the production and consumption of styrene continue to adapt and reflect broader trends in industrial practices and otherwise.

Styrene market trends 2023-2024:

In the US market, the styrene price has maintained its stability although there has been a decline in export activity, the production rates have maintained their stability as well. Some instances led to an increase the import costs, such as disruption in the Panama Canal, and manipulation amongst traders to engage in large-volume transactions.

In the Chinese Styrene market, there has been a significant price surge due to limitations in the stock and robust demand from the Asian region. The Israel-Palestinian conflict has affected the feedstock price, and other factors like price surge of benzene, ethylene, crude oil, and production expenses of styrene have affected styrene production and its market.

How Raw materials of styrene production processes affect the chemical in-

dustry:

The two primary raw materials required for the production of styrene are Ethylbenzene and propylene. Now, the benzene part of ethylbenzene is derived from the crude oil refining process and it is also obtained as a by-product in steel production.

Therefore it shows that any distortion happens in the demand or production process of these raw materials, then it is reflected in the production of styrene. Similarly, demand for products that utilize styrene as their raw materials also impacts the production and distribution of styrene.

The market size of styrene was at USD 56.8 billion in the year 2023 and it is expected to reach USD 94.7 billion by 2032. It is observed that there is an increase in the demand for polystyrene and in the production of synthetic rubber. These factors act as the major market drivers of styrene. There was a slight decline in crude oil prices as there were some geopolitical tensions particularly involving Russia and Ukraine. This has created market uncertainties that affected the crude oil prices, these factors have affected the styrene prices. Likewise, during the May-June of 2023, there was sluggish end-user consumption of the rubber and other derivatives that involve styrene in and around China, this has caused the price of styrene in the Chinese market to witness a downward trend.

Polystyrene is made from styrene. Polystyrene has gained much momentum due to its thermoplastic properties and is utilized to produce many products for industrial and consumer uses. Polystyrene is versatile and its properties make it an essential material in various applications such as packaging, food containers, disposable cutleries, insulation, and consumer goods. Since the demand for single-use packaging materials is growing in the food and beverage sector, it contributes to the growth of the styrene industry.

Likewise, styrene-based polystyrene is utilized in the construction industry for thermal insulation. Thermal insulation and reducing energy consumption are two essential factors in the construction industry, these factors are leading to the growing demand for expanded polystyrene foam boards.

Impact of styrene on human health:

EPA recognizes the dangers caused by styrene and the way it affects the central nervous system. Some of the common symptoms are headaches, confusion, drowsiness, and difficulty concentrating. Therefore styrene is considered a human carcinogen.

Additionally, Styrene mimics estrogen disrupts normal hormonal functioning and contributes to thyroid problems, breast cancer, mensural irregularities and other hormone-related problems.

Agilyx demonstrates depolymerization technology in Japan:

Since the industrial sectors are thriving to reduce plastic waste, lower the carbon footprint, and enhance resource efficiency, several organizations are working towards the environmental benefits in the production of styrene.Agilyx's technology transforms polystyrene waste into a valuable resource, where the materials are kept in use for as long as possible, that is extracting maximum value from them before recovery and regeneration.

The technology:

Agilyx uses a "proprietary pyrolysis technology". This technology helps in breaking down the contaminated polystyrene into styrene. The post-use polystyrene is heated in an oxygen-free environment in the process. Now, the technology is much celebrated because the used polystyrene is difficult to recycle using traditional mechanical recycling methods and chemical recycling also leads to landfills and disrupts the environment.

Benefits:

The technology helps reduce the need for virgin styrene monomer production that is typically derived from fossil fuels and reduces the overall impact of carbon emissions.

The recovered styrene is then used to produce new polystyrene products – a circular economy for the material.

This technology comes under sustainable management of plastic waste and contributes to global efforts to bring down plastic pollution. Agilyx's technology and its role in converting used polystyrene back into styrene monomer is much celebrated. Agilyx and Toyo are expected to collaborate and refine the facility in the coming months.

Conclusion: Any technology that represents transformative advancement in recycling polystyrene and addressing significant environmental challenges is well-celebrated and appreciated in the market. The advancements in styrene production and technologies have underscored the importance of bringing in sustainability and corporate responsibility. Therefore companies are hugely involved in focusing on reducing carbon footprint, enhancing product safety, and recycling practices.

Source : Vinodini Harish

Booming Bright-The Indian Chemical Industrys Rise And Promising Future

The Indian chemical industry is a force to be reckoned with, and its future is brimming with potential. Currently the world's sixth-largest chemical producer, with a market size of $178 billion in 2021, it's projected to grow at a breakneck CAGR of 11-12%, reaching a staggering $290-310 billion by 2027 as per industry reports.

This growth is fueled by a rising star: specialty chemicals such as specialty polymers, coatings, and electronic chemicals. Unlike their commodity base chemical counterparts, specialty chemicals boast unique properties and cater to specific applications. This translates to higher margins, making them the hottest segment – projected to reach a value of $50 billion by 2025.

Why Specialty Chemicals?

The demand for specialty chemicals spans diverse industries, from agriculture and food to various industrial applications. This versatility, coupled with their superior performance, makes them a lucrative choice for manufacturers. Additionally, both domestic and international factors are propelling their growth.

The China Factor: Opportunity Knocks

Previously, China dominated the base chemical market, leveraging economies of scale and lax environmental regulations. However, stricter environmental controls have slowed their growth, creating a global supply chain gap. This has presented a golden opportunity for India, with its robust quality and waste management standards. Indian chemical companies have seen a surge in demand, with revenue growing at a stellar 15% average rate over the past five years. This impressive growth happened even amidst a global slowdown and fluctuating chemical prices – a testament to the industry's resilience and pricing power.

India: The Emerging Chemical Powerhouse

Leading chemical players are actively diversifying their sourcing beyond China, a trend accelerated by the pandemic. This shift towards a multi-sourced supply chain, coupled with the ongoing US-China trade war, has positioned India as a prime destination for chemical manufacturing. India's advantages are undeniable: a cost-competitive workforce, skilled labor pool, and proximity to Southeast Asia's burgeoning markets. Additionally, a similar trend is emerging in Europe, with some companies considering India as an alternative manufacturing hub due to its cost-effectiveness and anticipated stringent environmental policies.

A Look Ahead

While stock market performance in the past year has been subdued due to global market slowdowns and high raw material costs, the long-term outlook remains positive. Specialty chemicals continue to be the industry's rising star, and agrochemical companies are actively developing eco-friendly solutions to support sustainable agriculture. These developments hold immense promise for the future of the Indian chemical industry, fostering growth that benefits both producers and users.

Source : Team Chemical Market

How Milk Proteins Interact With Caffeine In Espresso

The swirl of milk and espresso — a small storm in your mug — doesn't impact the dynamics of the milk proteins, according to research published in ACS Food Science & Technology. Researchers took a molecular view of how milk proteins and caffeine molecules interact in water and in a coffee drink. The results suggest that the structures of milk proteins remain intact, meaning they retain their original mouthfeel and taste in your morning brew.

Pouring milk into coffee causes the proteins to interact (e.g., combine or repel) with compounds extracted from the roasted, ground coffee beans, and that could change the proteins' mouth-

feel and the way they are digested. Milk proteins could also potentially affect the absorption, or bioavailability, of caffeine by the human body. To shed light on these mysteries, Tobias Weidner and Fani Madzharova used 2D infrared spectroscopy to investigate milk proteins' molecular structures and dynamics when in a coffee beverage. They assessed increasingly complex mixtures of a store-bought whole fat (3.5%) milk, water solutions with milk and caffeine, and then a handmade cappuccino.

They found that the folding of milk proteins was unaltered by the presence of caffeine in these beverages, even in the cappuccino, which contained components extracted from the coffee grounds, such as chlorogenic acid. Additionally, while previous studies have reported that caffeine slows the molecular movement of water, this study didn't show substantial effects from caffeine on the mobility or dynamics of milk proteins. These experimental results provide a useful molecular picture about some components that affect the texture, flavor and nutritional properties of coffee beverages with milk ingredients, which the researchers say could be applied toward engineering future drinks.

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The American Chemical Society (ACS) is a nonprofit organization chartered by the U.S. Congress. ACS' mission is to advance the broader chemistry enterprise and its practitioners for the benefit of Earth and all its people. The Society is a global leader in promoting excellence in science education and providing access to chemistry-related information and research through its multiple research solutions, peer-reviewed journals, scientific conferences, eBooks and weekly news periodical Chemical & Engineering News. ACS journals are among the most cited, most trusted and most read within the scientific literature; however, ACS itself does not conduct chemical research. As a leader in scientific information solutions, its CAS division partners with global innovators to accelerate breakthroughs by curating, connecting and analyzing the world's scientific knowledge. ACS' main offices are in Washington, D.C., and Columbus, Ohio.

Source : Chemical Market

From Aluminum Industries To Water Treatment Understanding The Global Caustic Soda Market Trends And Growth Drivers

When was the last time you encountered Caustic soda? This seemingly mundane chemical popularly known as Sodium Hydroxide (Na OH), plays a major role in our daily lives. It is used in manufacturing everyday products and industrial processes. Can you think of a day without household cleaners? Papers? Soaps? Clothing? Water treatment processes? Then you should validate the role of Caustic soda since it is an indispensable component in all these sectors. This article delves into the diverse applications and importance of Caustic soda, its market growth, trends, demand-supply imbalance and its overall impact on the chemical sector. Let's begin.

Caustic soda market trends:

The price of Caustic soda has been pretty stable in recent months, however, the market experiences pressure due to fluctuating demand and supply chain issues. However, there are economic downturns, and higher energy costs that are contributing to the stability of the pricing amidst the constrained supply. Caustic soda market players are worried about the possible changes due to the changes in the Red Sea shipping routes, these changes can potentially affect the imports and raise the shipping costs in Europe. In addition to that, there is a decline in demand for Caustic soda from the aluminum industry.

On the other hand, BASF, a leading Caustic soda producer in Germany stated that a tough economic challenge prevails in the industry, thus they are involved in the cost-reduction initiatives. BASF underscores the economic downturn in Germany which is influencing the volumes. Overall, the demand for Caustic soda is impacted by factors such as China's economic conditions, challenges faced by major players such as BASF in Germany, and the combination of weak demand and high costs that have led to strategic conditions like cost-cutting measures.

What is driving the Caustic soda industry?

The caustic soda industry is driven by the increasing demand in the aluminum industry. In the production of alumina from bauxite, the aluminum industries utilize Caustic soda extensively in Bayer's process, since the process actively refines it. Now, alumina or aluminum oxide is extensively utilized in aerospace and automotive industries to manufacture lightweight automotive components.

On the other hand, the construction and renovation activities are extensively using aluminum-based building materials. These aluminum-based building materials promote environmental health and reduce harmful greenhouse gas emissions.

The pulp and paper industry is rapidly expanding thereby increasing their utilization of Caustic soda for their pulping and bleaching processes which transform wood into paper. Caustic soda plays a crucial role in the pulping and bleaching processes which are part of transforming wood into paper. In the pulping process, Caustic soda helps in breaking down the lignin in wood and then separates cellulose fibres to produce the pulp. In the bleaching process, Caustic soda is utilized to remove residual lignin and brighten the pulp.

The utilization of paper and cardboard is increasing in several industries such as packaging and consumer goods. Additionally, UNICEF declared that there is a significant increase in literacy rate which has gone from 87% in 2000 to 92% in 2020. These factors showed that there is an increased demand for educational materials like books, and notebooks, which are increasing the demand for paper.

Caustic soda is extensively utilized in water treatments. There is a significant rise in environmental awareness and stringent regulations are imposed in the countries that comprise over 2.3 billion people. Due to these factors, water treatment services are propelling the demand for Caustic soda and thereby impacting the growth of the industry. Caustic soda is efficient in raising the pH levels of the water which makes the water neutral or slightly alkaline.

Current trends of the global Caustic soda market:

Advancement in technologies utilized in the production process:

In recent times, the manufacturing sectors have been focusing on improving the efficiency of Caustic soda production. Along with the innovation they have incorporated several key strategies and advancements here and there. Especially through the innovations in electrolytic methods and membrane cell technologies.

Through the membrane cell technology methods, the manufacturers replaced the older diaphragm cells and mercury cells. This factor has offered significant advantages that include:

High purity of Caustic soda: Membrane cells produce high-quality Caustic soda with a concentration of about 32-35% with very minimal impurities. Comparably lesser impurities compared to the process of using diaphragm or mercury cells.

Lower energy consumption: Membrane cells are highly energy-efficient and they have better current efficiency hence they operate at lower voltage levels; thus, they have reduced the overall energy consumption per ton of Caustic soda produced.

Reduced environmental effect: The conventional production methods involve toxic mercury as they are associated with mercury cells. This has been

creating major environmental impacts and health hazards. This innovation has eliminated the necessity for mercury cells thereby cutting off the negative environmental effect.

Separation efficiency: The ion-selective membranes are used in Caustic soda production. These newer membranes are more selective for sodium ions, and this allows for more efficient separation and reduces the energy required for the electrolysis processes.

Durability: The modern membranes are more durable and operate without much of maintenance for longer lifespans. Therefore they cut down the costs required for the replacements and maintenance. Overall the advancements have cut down the operational costs.

Optimizing the flow of brine: Enhancing the flow dynamics has also enhanced the operation. In modern production processes, the distribution of electric current within the electrolyzer improves the overall efficiency and reduces the energy consumption of the production process.

Automation and control systems: Advanced automation and control systems help in precise monitoring and control of electrolysis processes. Automation has helped much in optimizing performance and energy usage.

Energy recovery systems: To further optimize and enhance the efficiency of energy usage, the advanced treatment setups include energy recovery systems that help in recovering and reusing the heat generated during the electrolysis process further reducing the energy consumption.

Sectors that aid the growth of Caustic soda demand:

The trend associated with environmental protection and stringent environmental protection measures is driving the adoption of advanced water treatment technologies which involves intensive usage of Caustic soda.

Production of biofuels, especially biodiesel is boosting the demand for Caustic soda. The global manufacturing sector is developing an interest in renewable energy sources and shifting away from fossil fuels. This is leading towards the production of biofuels, and consequently leading to the increasing demand for Caustic soda production.

The expanding food industry and packaging industry are both stimulating the growth of Caustic soda production. Caustic soda is used extensively in the cleaning and sanitizing department and food processing department where foods like olives, pretzels and chocolates are processed. This factor is driving the demand for high-quality Caustic soda solutions.

Likewise pulp and paper manufacturing sector is one of the largest consumers of the Caustic soda industry, as the processing of wood into paper, and the bleaching of paper extensively utilizes Caustic soda. Now, the growing trends of sustainable packaging solutions demand more production of paper, and the demand for Caustic soda has increased significantly.

Conclusion:

Caustic soda remains the cornerstone for multiple sectors and thus any innovation in production technology or handling is immensely appreciated. Right from energy efficiency, to incorporating sustainable production practices to automation every development of the industry has brought in huge returns to the market players. Overall Caustic soda industry has developed both an enduring and dynamic market culture in the chemical industry and beyond.

Source : Vinodini Harish

Innovations In Water Management Take Center Stage At The 19th Everything About Water Expo 2024

New Delhi, June 11, 2024 – Get ready for a groundbreaking experience as the 19th EverythingAboutWater Expo 2024, South Asia's premier water event, gears up to take place from September 10th to 12th, 2024, at Hall No. 2C, Yashobhoomi, Dwarka, New Delhi. Organized by Earth Water Foundation, this eagerly awaited event is set to be an enlightening and transformative experience for everyone involved in water and wastewater management.

Supported by prestigious organizations such as the Ministry of Jal Shakti, Make In India, Swachh Bharat, Global Waste Cleaning Network, RCCI, AIDA, Conrwa, HPMF, ICCE, TDWA, and Tema, the Expo aims to foster collaboration and innovation in tackling the urgent challenges of water scarcity and pollution. This collaborative effort underscores the collective commitment to ensuring sustainable water management practices.

A highlight of this year's Expo is the participation of key sponsors like SNF India and Universal Mep Projects & Engineering Services Limited (a subsidiary of TATA). Their involvement exemplifies the dedication of industry leaders to pioneering sustainable solutions in water management, highlighting the critical role of public-private partnerships in addressing water-related issues.

Attendees can look forward to an im-

pressive lineup of exhibitors showcasing cutting-edge technologies and solutions. Esteemed exhibitors such as A1 Blowers, AKASH Blowers Pvt Ltd, Aquabrim Home Appliance Pvt. Ltd., Centrepoint Lifestyle Products Pvt Ltd, and many others will be present. These industry leaders represent the forefront of innovation in water treatment, offering solutions ranging from advanced filtration systems to state-of-the-art wastewater treatment technologies.

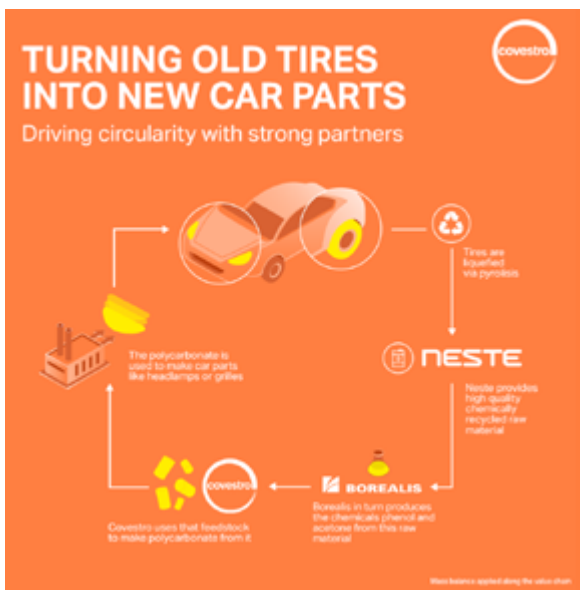
"We are thrilled to welcome industry leaders, policymakers, and experts to the 19th EverythingAboutWater Expo 2024," said Ms. Nisha Aggarwal, VP at Earth Water Foundation. "This event provides a unique platform for knowledge sharing, networking, and collaboration, essential for addressing the complex challenges facing our water resources."

The Expo promises a comprehensive program featuring keynote speeches, panel discussions, and interactive sessions that will cover a wide array of topics, including water conservation, sustainable development, and the latest emerging technologies in water management. Attendees will have the opportunity to engage with experts, share insights, and explore innovative solutions to the pressing water challenges of our time.

Source : Chemical Market

Partnerships for a circular economy From old tires to new car parts: Covestro, Neste and Borealis aim at closing loop for automotive industry

Neste, Borealis and Covestro have signed a project agreement to enable the recycling of discarded tires into high-quality plastics for automotive applications. The collaboration aims at driving circularity in plastics value chains and the automotive industry. When no longer fit for use, tires are liquefied by means of chemical recycling and then processed into base chemicals and further into polycarbonates of high purity. These can then be used in various automotive applications, from parts of headlamps to radiator grilles.



"Circularity requires cooperation, and this cooperation with our partners Neste and Borealis is testament to the possibilities at our disposal," says Guido Naberfeld, Senior Vice President, Head of Sales and Market Development Mobility at Covestro. "We are creating options to turn old tires into new car parts again. With that, we are supporting our automotive customers and addressing an increasingly prominent question discussed across the value chain: How to match high-performance materials with recycled content? Projects like this can be the answer."

As part of the collaboration, Neste turns liquefied discarded tires into a high-quality raw material for polymers and chemicals manufacturing and supplies it to Borealis. Borealis will then process the Neste-produced raw material into base chemicals phenol and acetone, which are supplied to Covestro. Covestro can use these materials to make polycarbonates. The share of recycled content is attributed via the mass balancing approach all the way to the final products using ISCC Plus certification.

The first products based on the collaboration are already available as each party has manufactured the first batch of their respective contribution to the project. Aside from polycarbonates, the project partners may also consider polyurethanes as a possible end product, which could also find its way into

parts of the interior of a car. The companies emphasize that the potential to scale-up these types of developments should be considered when setting ambitious targets for future EU regulations, such as the End of Life Vehicles Regulation.

"We are demonstrating the importance of value chain cooperation to give new value to waste," says Thomas Van De Velde, Senior Vice President Base Chemicals at Borealis. "We are proud that Borealis, in collaboration with Neste, is able to play a role in this project, providing more sustainable solutions for polymer applications for Covestro and its customers."

"This project can serve as a blueprint when it comes to establishing circularity in the field of plastics in cars," says Jeroen Verhoeven, Vice President Value Chain Development for polymers and chemicals at Neste. "It shows how low-quality waste materials can be turned into very high-quality plastics. This is good news for the polymers and automotive industries as well as for the environment."

Source : Covestro

Syensqo unveils Cerafy™, a range of biomimetic natural ceramides, revolutionary active ingredients in beauty care

Brussels, June 12, 2024 - Following the recent acquisition of JinYoung Bio, a specialty cosmetic ingredients supplier based in South Korea, Syensqo launches Cerafy™, a range of biomimetic natural ceramides for skin care and hair care applications.

The launch of Cerafy™ demonstrates Syensqo's commitment to rapidly grow its Beauty Care business and portfolio toward more natural specialty skin care solutions.

Cerafy™ Pure NPo, the first product in the range, is a pure ceramide 3 solution that addresses the decrease in natural ceramide levels within the skin. It helps protect skin against dryness and prevents premature aging by revitalizing the skin's barrier function.

"Ceramides are pivotal in maintaining the skin's integrity, acting as a protective barrier in the outermost layer of the skin to lock in moisture and shield against environmental damage," said Léa Seidenbinder, Global Skin Care Marketing Manager at Syensqo. "With Cerafy™, we enable formulators to develop responsible and personalized skin care routines that help restore, protect and maintain the skin's beauty and health."

Cerafy™ is produced through a unique fermentation process that aligns with the focus of Syensqo's Renewable Materials and Biotechnology Growth Platform. The platform leverages biotechnologies as an enabler to develop renewable carbon-based and safe chemistry to accelerate the transformation toward sustainable and circular solutions.

Natural ceramides are also key active ingredients for hair care and skin cleansing formulations. To that end, Syensqo will focus its research and innovation efforts on further developing the Cerafy™ range over the coming months.

Source : Press Release Finder

CphI - Informa Group			
No	**Exibitions**	**Date**	**Place**
1	CPhI North America	May 20-22, 2025	Pennsylvania Convention Center, Philadelphia
2	CPhI Barcelona	Oct 24-26, 2024	Fira Barcelona Gran Via, Spain
3	CPhI Middle East & Africa	Dec 10-12, 2024	Riyadh, Saudi Arabia
4	CPhI China- Virtual CPhI	June 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	Nov 7-9, 2024	Morocco
2	43rd Dye+Chem Sri Lanka International Expo	March 20-22, 2025	Colombo Sri Lanka
3	Dye+Chem Bangladesh International Expo	Sept 4-7 2024	Bangladesh
4	44th Dye+Chem Brazil International Expo	July 10-12 2024	Brazil
Red Carpet Events			
1	Bangladesh Int'l Dyes, Pigments and Chemicals Expo	Oct 24-26, 2024	Dhaka, Bangladesh
Turkey (Arkim Group)			
1	InterDye Textile Printing Eurasia	Nov 27-29 2024	Istanbul, Turkey
2	Paint Istanbul TURKCOAT	2026	Istanbul
3	Paint Expo Eurosia	Oct 01-03, 2025	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 21-22, 2025	NEC, Birmingham, UK
6	American Coatings Show	2026	Indianapolis
7	China Coat China	Dec 2024	China Import & Export Complex, Guangzhou
8	Interdye China	TBD	Shanghai, China
9	Paint Expo Germany	Apr 14-17, 2026	Messe Karlsruhe Germany
10	India Chem	Oct 17-19 2024	Mumbai Exibition Centre, India
11	Water Expo 2024	Feb 26-28 2025	New Delhi
12	Inacoating 2024	July 30-Aug 1, 2024	JlExpo Kemayoran, Jakarta - Indonesia
13	Expo Paint & Coating	Sept 19-21, 2024	ICC Dhaka, Bangladesh

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.

Archroma Introduces COLOR MANAGEMENT+ to Elevate Color Development and Execution for more Sustainable Textiles and Fashion

Pratteln, Switzerland, June 5, 2024 - Archroma, a global leader in specialty chemicals towards sustainable solutions, today introduced COLOR MANAGEMENT+, an enhanced color design and development solution that helps textile and fashion brands and mills work together for improved economic and environmental sustainability.

Archroma COLOR MANAGEMENT+ incorporates the industry's largest off-the-shelf color atlas selection, market-leading design tools and customized services for fast color selection and creation. It combines these with engineered color standards created with Archroma's SUPER SYSTEMS+ for reduced environmental impact and consistent and accurate color reproduction.

With these end-to-end capabilities, brands and designers can focus on their color inspiration and on the required functionality and sustainability for their end article, with the assurance that their inspiration can be precisely communicated and efficiently executed at the mill.

"Selecting the perfect color is a vital part of the creation of textiles and fashion, but it is not simple. Beyond aesthetics and consumer appeal, today's designers also have to consider fastness performance, eco-compliance, color consistency and resource efficiency," Chris Hipps, Global Head of Archroma Color Management, said. "Archroma's COLOR MANAGEMENT+ builds these considerations into engineered color standards and provides the recipes and references that colorists and technical specialists need to bring colors to life in economical and resource efficient bulk production."

Within COLOR MANAGEMENT+, the Color Atlas by Archroma® offers access to a collection of more than 5,700 unique colors for cotton, polyester and blends, both as a physical library and searchable online library. Designers also have the option to create custom colors.

Most importantly, achievability criteria are available for each color standard, whether in the Color Atlas or provided as an Engineered Color, at the selection phase. This includes information about the technical and economic feasibility of the selected color, along with a commitment to sustainability build on the foundation of the Zero Discharge of Hazardous Chemicals (ZDHC) Manufacturing Restricted Substances List (MRSL) Level 3.

The COLOR MANAGEMENT+ color standards provide clear color communication to mill colorists, textile technologists and quality control specialists, helping them deliver the right color faster and achieving reproducible colors across countries and mills. Clear communications can also eliminate excessive lab dipping, shorten approval times and improve first-time-approval rates.

The color standards in COLOR MANAGEMENT+ are created with Archroma's powerful SUPER SYSTEMS+ solutions for bulk production in mind. Offering end article-specific processing solutions, durable colors and intelligent effects, the SUPER SYSTEMS+ suite allows brands to achieve measurable environmental impact, eliminate harmful or regulated chemicals, and add value and longevity to the end product.

The solution is further supported Archroma's ONE WAY+ Impact Calculator and Sustainability Improvement

Program (SIP), and SAFE EDGE+ compliance-data platform. Global technical support is provided to help the supply chain deliver the right colors with consistency and reduced environmental impact. Archroma's COLOR MANAGEMENT+ is a core pillar of the company's "PLANET CONSCIOUS+" vision. With the industry's most extensive product portfolio and a comprehensive global footprint, Archroma has the expertise and drive to accelerate the textile and fashion industry's transition to the most sustainable processes and lead it towards a more sustainable future.

Source : Press Release Finder

Did you know that Rice Bran Waxes can Replace Carnauba Waxes?

MUTTENZ, May 16, 2024 - Carnauba wax, derived from palm leaves, has long been considered as the gold standard for delivering key properties like hardness, scratch resistance, and gloss in coatings. However, with increasing supply constraints and sustainability concerns, formulators are actively seeking alternatives[1]. At Clariant, we recognize the need for alternatives driven by customer demands as well as our responsibility to address environmental challenges. We strive to make a meaningful impact in the industry all while maintaining our focus on meeting the diverse needs of our customers.

The power of Licocare® rice bran waxes

Licocare RBW Vita offers an innovative bio-based solution that retains the shine, durability, and formulation potential associated with carnauba while aligning with sustainability preferences. This renewable carnauba alternative achieves exceptional performance qualities through 100% plant-based sourcing.

Our upvalued rice bran waxes offer high-performance solutions at the same time as addressing the key sustainability mega-trends transforming the coatings industry. They are not just renewable-based, but also non-food competing, contain no microplastics or PFAS chemicals, and have a remarkable renewable carbon index exceeding 98%. Clariant's rice bran waxes can already be found in automotive coatings, furniture coatings, and protective coatings such as in cell phones.

Its lighter color enables flexible adaptation across color-sensitive applications. Produced through controlled industrial processes, our consistent quality avoids production adjustments needed with natural waxes. With a broad portfolio and wide variety of solutions, Licocare RBW Vita offers formulators a choice of characteristics like polarity, hardness, and melting point to select the optimal product for their care products, emulsions, coatings, and plastics.

Licocare RBW Vita simplifies the substitution in existing carnauba-based coatings thanks to an extensive portfolio offering a wide choice of characteristics (polarity, hardness, drop point, particle size) to fit diverse applications like care, emulsions, coatings, plastics, and many more. You can expect high performance in the following key areas:

- Outstanding scratch resistance and slip
- Excellent formulation stability
- Neutral transparency that prevents discoloration

"With Licocare RBW Vita, we bring meaningful, high-quality solutions to coatings applications while reflecting our sustainability values. These bio-based rice bran waxes represent the future of coatings." - Ray Gonzales, Head of Global Marketing Coatings & Adhesives.

Whether seeking to overcome supply chain hurdles or improve sustainability, Licocare RBW Vita unlocks the next generation of renewable coatings while minimizing any necessary compromises. Carnauba-like functionality and beyond is possible with rice bran wax.

Source : Press Release Finder

B.I.G. Yarns at Clerkenwell Design Week: Merging Sustainable Color and Design to Create the Spaces of the future

- B.I.G. Yarns solutions at the forefront of sustainable industry product design
- Focus on color with sustainable design helping drive circularity
- Be inspired by the Sustainable Yarns platform for responsible carpet manufacturing

Wielsbeke, Belgium – May 16, 2024 – B.I.G. Yarns is hitting Clerkenwell Design Week 2024 with a splash, showcasing sustainable craftmanship that merges color and design with sustainable yarn materials to redefine the spaces of the future.

As one of the most important design

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

Mumbai Market Price as on 10/06/2024		
Name of Chemical	**Current Price**	**Location**
Acetic Acid-Imported Repack	45	Mumbai
Acetic Acid-Domestic Intact	56	Mumbai
Acetic Acid-Domestic Repack	45	Mumbai
Acetone-Imported Repack	107	Mumbai
Acetone-Domestic Intact	122	Mumbai
Acetone-Domestic Repack	108	Mumbai

Acetonitrile-Imported Intact	150	Mumbai
Acetonitrile-Domestic Intact	180	Mumbai
Acetonitrile-Domestic Repack	140	Mumbai
Acrylonitrile-Imported Intact	160	Mumbai
Acrylonitrile-Imported Repack	140	Mumbai
Aniline-Imported Intact	183	Mumbai
Aniline-Domestic Intact	185	Mumbai
Benzene-Domestic Repack	99	Mumbai
Cyclohexane-Imported Intact	145	Mumbai
Cyclohexane-Domestic Intact	128	Mumbai
Cyclohexane-Domestic Repack	122	Mumbai
Cyclohexanone-Imported Intact	145	Mumbai
Cyclohexanone-Imported Repack	138	Mumbai
Cyclohexanone-Domestic Intact	150	Mumbai
Cyclohexanone-Domestic Repack	138	Mumbai
C9 Solvent (99.99% purity)-Imported Repack	103	Mumbai
C9 Solvent (Arham Petrochem)-Imported Repack	102.75	Mumbai
Dibutyl Phthalate-Domestic Intact	133	Mumbai
Dioctyl Phthalate-Domestic Intact	147	Mumbai
Ethyl Acetate-Domestic Intact	80.5	Mumbai
Ethyl Acetate-Domestic Repack	78	Mumbai
Formaldehyde(37%)-Domestic Repack	19.5	Mumbai
Methanol-Imported Repack	34	Mumbai
Methyl Ethyl Ketone-Imported Intact	129	Mumbai
Methyl Ethyl Ketone-Imported Repack	119	Mumbai
Methyl Isobutyl Ketone-Imported Intact	170	Mumbai
Methyl Isobutyl Ketone-Imported Repack	158	Mumbai
Methyl Methacrylate-Imported Intact	215	Mumbai
Mixed Xylene-Imported Repack	96	Mumbai
Mixed Xylene-Domestic Repack	96	Mumbai
Monoethylene Glycol-Imported Repack	58	Mumbai
Monoethylene Glycol-Domestic Intact	65	Mumbai
Monoethylene Glycol-Domestic Repack	58	Mumbai
Iso propyl Alcohol-Imported Repack	125	Mumbai
Iso propyl Alcohol-Domestic Intact	145	Mumbai
Iso propyl Alcohol-Domestic Repack	125	Mumbai
nButanol-Imported Repack	107	Mumbai
nButanol-Domestic Intact	116	Mumbai
nButanol-Domestic Repack	107	Mumbai
Ortho Xylene-Imported Repack	145	Mumbai
Phenol-Imported Repack	110	Mumbai

Phenol-Domestic Intact	120	Mumbai
Phenol-Domestic Repack	110	Mumbai
Phthalic Anhydride-Imported Intact	120	Mumbai
Phthalic Anhydride-Domestic Intact	120	Mumbai
Styrene Monomer-Imported Repack	110	Mumbai
Toluene-Imported Repack	97	Mumbai
Toluene-Domestic Repack	97	Mumbai
Vinyl Acetate Monomer-Imported Repack	84	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 10/06/2024

Products	Regions	Current prices
Feedstock Prices $/unit		
Crude Oil ($/barrel)	WTI CRUDE	75.65
	BRENT CRUDE	79.76
	MARS US	76.83
	OPEC BASKET	78.39
Natural Gas	New York	2.93
Gasoline	RBOB	2.39
Heating Oil	US	2.36
Ethanol	US	1.81
Naphtha	FOB Singapore	650
	European	625
	CFR Far East Asia	655
Propane	New York	0.7
Aromatics prices $/MT		
Benzene	FOB Korea	1030
	CFR Japan	1070
Styrene	CFR Japan	1160
	CFR South East Asia	1210
	CFR China	1151
	FOB Korea	1150
Toluene	CFR China	940
	CFR South East Asia	1010
	FOB Korea	930
	CFR Japan	940
Iso-Mix Xylene	CFR South East Asia	940
	CFR Taiwan	940
	FOB Korea	925

MEG	CFR China	525
	CFR South East Asia	530
Methanol	CFR China	302
	CFR Korea	360
	CFR South East Asia	365
	CFR Taiwan	349
Solvent-MX	CFR South East Asia	1010
	FOB Korea	910
	CFR China	945
Ortho Xylene	CFR South East Asia	1150
	FOB Korea	1095
	CFR China	1095
Para Xylene	CFR South East Asia	1025
	FOB Korea	1005
	CFR Taiwan	1025
Propylene	FOB Japan	815
	FOB Korea	820
	CFR China	850
	CFR South East Asia	815
Propylene Glycol	FOB Korea	815
	CFR China	845
Ethylene	CFR North East Asia	830
	CFR South East Asia	940
	FOB Japan	795
	FOB Korea	800
EDC	CFR Far East Asia	250
	CFR South East Asia	295
Butadiene	CFR China	1405
	CFR South East Asia	1305
	FOB Korea	1335
Benzene	FOB Rotterdam	1040
Methanol	FOB Rotterdam	330
Ortho Xylene	FOB Rotterdam	1425
Para Xylene	FOB Rotterdam	1115
Solvent-MX	FOB Rotterdam	960
Styrene	FOB Rotterdam	1075
Toluene	FOB Rotterdam	960
Benzene C/G	FOB US Gulf	382
Toluene C/G	FOB US Gulf	329
Styrene C/LB	FOB US Gulf	56.6
Para Xylene $/MT	FOB US Gulf	1090

Mix Xylene C/G	FOB US Gulf	331
Methanol C/G	FOB US Gulf	101
Intermediates prices $/MT		
Acrylonitrile	CFR Far East Asia	1285
	CFR South East Asia	1285
	CFR South Asia	1335
VCM	CFR Far East Asia	615
	CFR South East Asia	675
MTBE	FOB Singapore	810
	FOB US Gulf	940
Phenol	CFR China	925
	CFR South East Asia	1015
	FOB US Gulf	1100
	FOB Rotterdam	1272
Acetone	CFR China	930
	CFR South East Asia	1065
	CFR Far East Asia	685
	FOB US Gulf	1383
	FOB Rotterdam	1143
Caprolactum	CFR Far East Asia	1700
	CFR South East Asia	1720
Caustic Soda	FOB North East Asia	380
	CFR South East Asia	480
Ethyl Acetate	FOB US Gulf	1631
	FOB Rotterdam	1262
	FD North West Europe(Euro/ mt)	1260
Butyl Acetate	FOB US Gulf	1985
	FOB Rotterdam	1545
	FD North West Europe(Euro/ mt)	1520
MEK	FOB Rotterdam	1469
	FD North West Europe(Euro/ mt)	1450
IPA	FOB US Gulf	1433
	FOB Rotterdam	1273
	FD North West Europe(Euro/ mt)	1270
NBA	CFR China	1110
	CFR South East Asia	1110
	CFR Far East Asia	1075

Octanol	CFR China	1320
	CFR South East Asia	1390
	CFR Far East Asia	1285
DOP	CFR China	1365
	CFR South East Asia	1375
	CFR Far East Asia	1370
Phthalic Anhydride	CFR China	1110
	CFR South East Asia	1160
	CFR Far East Asia	1095
PTA	CFR Far East Asia	770
	CFR South East Asia	790
Acetic Acid	CFR Far East Asia	450
	CFR South East Asia	455
	CFR South Asia	412
	FOB China	350
VAM	CFR China	845
	CFR South East Asia	805
	CFR South Asia	845

Shipping term		Description
FOB	Free on Board	The seller quotes a price including the cost of delivering goods to the nearest port. The buyer bears all the shipping expenses and is responsible to get the products from that port to its final destination. In simple terms, FOB price means the buyer has to bear the shipping costs completely. This is one of the most used shipping terms by international buyers and sellers.
EXW	Ex-Works	The seller has no involvement with the transportation costs and risks. The buyer has to collect the goods from the seller's site and get them to the final destination. All the costs and risks are borne by the buyer. It is advisable that the buyer purchases insurance since the goods can get damaged in transit. EXW is ideal when the buyer and seller are in the same country or region.
CFR	Cost and Freight	The seller pays the loading and freight costs from his premises up to the destination port. Then, the buyer has to arrange for the goods to be transported from the port to his premises. The seller is only responsible for the cost of shipping the products to the destination port. CFR is used for products transported by sea or inland waterways only. The seller does not bear the risk of loss or damage during transit.
FD North West Europe	Free Delivered	Free Delivered North West Europe

CIF	Cost, Insurance, and Freight	If the buyer opts for CIF price, the seller pays for the loading and freight costs right from his premises up to the destination port as well as insurance. In the case of damage or loss, the seller bears the risk completely. The buyer has to arrange for transportation of the goods from the port to his premises. CIF is a safer option than CFR since the goods are insured by the seller up to their arrival at the destination port.	
DAP	Delivered at Place	It was previously known as DDU, Delivery Duty Unpaid. In this case, the seller is responsible for getting the goods from his own factory up to the premises of the buyer. He also bears the risk in the case of loss or damage of the goods right until the products are delivered to the buyer. The buyer only has to pay the import duties or custom clearance charges.	
DDP	Delivery Duty Paid	The seller is responsible for shipping the goods from his factory to the destination address provided by the buyer, usually his factory or warehouse and is also liable for any damage or loss of goods during transit. The seller also takes care of the customs, VAT, or import duties levied on the products. The buyer only has to receive the products at the destination. In most cases, most sellers only offer DDP for small shipments.	
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.

If you wish to subscribe to the pricing module,
please send us an email at info@chemicalmarket.net
or call us on +91-877-9830-330

Opening Ports Price (Rs/kg) of Chemicals as on 10/06/2024

USD Exchange Rate: 83.49 INR

Products	Current Prices (INR/kg)	Prices in USD/mt Equivalent to INR/ kg	Location
Acetic Acid	37.5	449.16	Ex-Mumbai
Acetic Acid	36.5	437.18	Ex-Kandla
Acetonitrile-imported intact	150	1796.62	Ex-Bhiwandi
Acetone	102	1221.70	Ex-Mumbai
Acrylic Acid	87	1042.04	Ex-Mumbai
Acrylonitrile	112	1341.48	Ex-Kandla
Adipic Acid	127	1521.14	Ex-Bhiwandi
Aniline Oil	158	1892.44	Ex-Kandla
Benzene	92	1101.93	Ex-Vizaz
Butyl Acetate	92.5	1107.92	Ex-Kandla
Butyl Acrylate Monomer	200	2395.50	Ex-Kandla
Butyl Glycol	133	1593.01	Ex-Kandla
C10	86	1030.06	Ex-Kandla
C9	83	994.13	Ex-Kandla
Carbon Black-regular grade	60	718.65	Ex-Mumbai
Caustic Soda Lye	35	419.21	Ex-Dahej
Chloroform	19.5	233.56	Ex-Dahej
Citric Acid-ANHYD	82	982.15	Ex-Bhiwandi
Citric Acid-Mono	70	838.42	Ex-Bhiwandi
Cyclohexane	110	1317.52	Ex-Hazira
Cyclohexanone	128	1533.12	Ex-Kandla
DMF Drum	76	910.29	Ex-Bhiwandi
DEG	62	742.60	Ex-Hazira
EDC	27	323.39	Ex-Kandla
Epoxy Resin	190	2275.72	Ex-Nhava Sheva
Ethyl Acrylate	122	1461.25	Ex-Kandla
Formic Acid	65	778.54	Ex-Bhiwandi
Glycerine	60	718.65	CIF Nhava Sheva
N-Heptane	225	2694.93	Ex-Bhiwandi
Hexane	92.5	1107.92	Ex-Kandla
Hydrogen Peroxide-50%	30.5	365.31	Ex-Bhiwandi
Isobutanol	100	1197.75	Ex-Kandla
IPA	111	1329.50	Ex-Kandla
IPA	112	1341.48	Ex-Mumbai
LAB	138	1652.89	Imported
Maleic Anhydride-Drum	97	1161.82	Ex-Mumbai

MDC	25	299.44	Ex-Dahej
MEG	51.75	619.83	Ex-Mumbai
MEK	103.5	1239.67	Ex-Kandla
Melamine	85	1018.09	Imported
Methanol	25.25	302.43	Ex-Kandla
Methanol	25.5	305.43	Ex-Mumbai
MIBK	146	1748.71	Ex-Hazira
Mix Xylene-Solvent Grade	86.5	1036.05	Ex-Kandla
Mix Xylene-Solvent Grade	87.5	1048.03	Ex-Mumbai
MMA	215	2575.16	Ex-Hazira
N-Butanol	102.5	1227.69	Ex-Kandla
N-Propanol	124	1485.21	Ex-Kandla
Octanol	125	1497.19	Ex-Kandla
Ortho Cresol	160	1916.40	Ex-Bhilai
Ortho Xylene	124	1485.21	Ex-Kandla
Phenol	100	1197.75	Ex-Kandla
Phenolic Resin	160	1916.40	Ex-Indore
Phthalic Anhydride	120	1437.30	Ex-Mumbai
Propylene Glycol	99.5	1191.76	Ex-Kandla
Sodium Nitrate (50Kg Bag)	61	730.63	Ex-Make-Lasons
Soda Ash Light	34	407.23	Ex-Bhiwandi
Styrene Monomer	101	1209.73	Ex-Kandla
Styrene Monomer	105	1257.64	Ex-Mumbai
Sulphuric Acid	4.5	53.90	Ex-Vapi
Tio2 (Anatase Grade)	210	2515.27	Ex-Bhiwandi
Tio2 (Rutile Grade)	245	2934.48	Ex-Bhiwandi
Toluene	86.5	1036.05	Ex-Kandla
Toluene	88.5	1060.01	Ex-Mumbai
VAM	74	886.33	Ex-Kandla
VAM	77	922.27	Ex-Hazira

Producer Prices (Rs/kg) of Chemicals as on 10/06/2024

Producers	Current Price (Rs/kg)	Import parity price in USD/ MT	Location	Production capac-ity
Accord-Ethyl Acetate	67	802.49	Ex-Maharashtra	
Arham Petrochem-C9	82.75	991.14	Ex-Kandla	69,000 tonnes / year
Arham Petrochem-C9	83.75	1003.11	Ex-Ahmedabad	69,000 tonnes / year
Arham Petrochem-C10	85.5	1024.07	Ex-Kandla	30,000 tonnes / year

Arham Petrochem-C10	85	1018.09	Ex-Ahmedabad	30,000 tonnes / year
Arham Petrochem-C10 (Imported Repack)	98.75	1182.78	Ex-Bhiwandi	30,000 tonnes / year
Arham Petrochem-MTO/White Spirit (KL)	59.65	714.46	Ex-Kandla	75000 tonnes / Year
Arham Petrochem-MTO/White Spirit (KL)	60.65	726.43	Ex-Ahmedabad	35,000 tonnes / year
Arham Petrochem-De-Aromatised D40	130	1557.07	Ex-Kandla	75000 tonnes / Year
Arham Petrochem-De-Aromatised D40	131	1569.05	Ex-Ahmedabad	35,000 tonnes / year
Arham Petrochem-De-Aromatised D60	139	1664.87	Ex-Kandla	75000 tonnes / Year
Arham Petrochem-De-Aromatised D60	140	1676.85	Ex-Ahmedabad	35,000 tonnes / year
Andhra Petrochemicals-Iso-Butanol	103.5	1239.67	Ex-Vishakhapa-tnam	4000 tonnes/year
Andhra Petrochemicals-N-Butanol	99.5	1191.76	Ex-Vishakhapa-tnam	30,000 tonnes/ year
Andhra Petrochemicals-Octanol	127.5	1527.13	Ex-Vishakhapa-tnam	70,000 tonnes/ year
BASF-Adipic Acid	130	1557.07	Imported	210,000 tonnes/ year
BPCL-2-Ethyl Hexanol (B)	122	1461.25	Ex-Kochi	47000 tonnes/year
BPCL-2-Ethyl Hexanol (P)	131	1569.05	Ex-Kochi	
BPCL-2-Ethyl Hexyl Acrylate (B)	158	1892.44	Ex-Kochi	10000 tonnes/year
BPCL-2-Ethyl Hexyl Acrylate (P)	168	2012.22	Ex-Kochi	
BPCL-Acrylic Acid (B)	82	982.15	Ex-Kochi	47000 tonnes/year
BPCL-Acrylic Acid (P)	91	1089.95	Ex-Kochi	
BPCL-Benzene	93.3	1117.50	Ex-Mumbai	90,000 tonnes/ year, Mumbai Re-finery,
BPCL-Butyl Acrylate (B)	133.5	1598.99	Ex-Kochi	180000 tonnes/ year
BPCL-Butyl Acrylate (B)	136	1628.94	Ex-Kandla	
BPCL-Butyl Acrylate (P)	143.5	1718.77	Ex-Kochi	
BPCL-Hexane (KL)	95.2	1140.26	Ex-Mumbai	35,000 tonnes/ year, Kochi
BPCL-Hexane (MT)	143.4	1717.57	Ex-Mumbai	35,000 tonnes/ year, Kochi
BPCL-Iso-Butanol (B)	103.1	1234.88	Ex-Kochi	7000 tonnes/year
BPCL-Iso-Butanol (P)	106.9	1280.39	Ex-Kochi	
BPCL-MTO (KL)	82.1	983.35	Ex-Mumbai	19,000 tonnes/ year

BPCL-N-Butanol (B)	99.8	1195.35	Ex-Kochi	38000 tonnes/year
BPCL-N-Butanol (B)	102.3	1225.30	Ex-Kandla	
BPCL-N-Butanol (P)	109.8	1315.13	Ex-Kochi	
BPCL-Paraffin Wax	110	1317.52	Ex-Delhi	
BPCL-Sulphur (Molten)	11.8	141.33	Ex-Mumbai	19,000 tonnes/ year
BPCL-Toluene	88.3	1057.61	Ex-Mumbai	16,000 tonnes/ year
Deepak Phenolics-Acetone	101	1209.73	Ex-Dahej Gujarat	80.5
Deepak Phenolics-IPA	112	1341.48	Ex-Dahej Gujarat	30,000 tonnes/ year
Deepak Phenolics-Phenol	98.5	1179.78	Ex-Dahej Gujarat	200,000 tonnes/ year
GACL-Caustic Soda Lye	34	407.23	Ex-Dahej Gujarat	
GACL-MDC	26.5	317.40	Ex-Bharuch Gujarat	NA
GNFC-Acetic Acid	37.5	449.16	Ex-Bharuch Gujarat	160,000 tonnes/ year
GNFC-Aniline Oil	162	1940.35	Ex-Bharuch Gujarat	
GNFC-Ethyl Acetate	69.5	832.44	Ex-Bharuch Gujarat	50000 tonnes/year
GNFC-TDI Drum	195	2335.61	Ex-Bharuch Gujarat	67000 tonnes/year
Grasim-MDC	26.5	317.40	Ex-Gujarat	33000 tonnes/year
GSFC-Cyclohexane	106.9	1280.39	Ex-Gujarat	NA
HOCL-Acetone	108	1293.57	Ex-Kochi	24640 tonnes/year
HOCL-Phenol	114	1365.43	Ex-Kochi	40,000 tonnes/ year
IOCL-Banzene	92	1101.93	Ex-Vadodara Gujarat	
IOCL-DEG	60.2	721.04	Ex-Odisha(Paradip)	
IOCL-DEG	61.7	739.01	Ex-Panipat	
IOCL-LAB	142	1700.80	Ex-Gujarat	120,000 tonnes/ year
IOCL-MEG	53.4	639.60	Ex-Odisha(Paradip)	
IOCL-MEG	55	658.76	Ex-Panipat	
IOCL-Paraffin Wax	110	1317.52	Ex-Delhi	
Jubilant-Ethyl Acetate	72.5	868.37	Ex-Maharashtra	280 tonnes/day

Laxmi-Ethyl Acetate	67.5	808.48	Ex-Maharashtra	100000 tonnes/ annum
Meghmani-Caustic Soda Lye	34	407.23	Ex-Bharuch Gujarat	400000 tonnes/ annum
Meghmani-MDC	26.5	317.40	Ex-Ankleshwar Gujarat	397500 kg/month
NIRMA-LAB	143	1712.78	Ex-Vadodra	120,000 tonnes/ year
Reliance-Caustic Soda Lye	34	407.23	Ex-Gujarat	69500 tonnes/an-num
Reliance-DEG	63.1	755.78	Ex-Jamnagar	65,000 tonnes/ year
Reliance-LAB	144	1724.76	Ex-Vadodra	180,000 tonnes/ year
Reliance-MEG	55	658.76	Ex-Jamnagar	750,000 tonnes/ year
Reliance-Mix Xylene	84	1006.11	Ex-Jamnagar	120,000 tonnes/ year
Reliance-PTA	84.5	1012.10	Ex-Dahej Gu-jarat	1,300,000 tonnes/ year
Reliance-TEG	118.5	1419.33	Ex-Jamnagar	NA
Reliance-Toluene	88	1054.02	Ex-Jamnagar	100,000 tonnes/ year
SI GROUP-Phthalic Anhydride	111	1329.50	Ex-Navi Mum-bai	11000 tonnes/year
TATA Chemicals-Soda Ash light	35	419.21	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 de-pends on last changing.				

New Chemical Products Listed on Chemical Market Leads Platform

THIO PHENOL

CAS-Number :

Molecular Formula :-

Molecular Weight : mol/g

Available Qty :- 100.0000 Kgs

Package Size :- Bottle

Price :- Available on Request

Markets :- Basic Chemicals | Pharmaceuticals & API | Food & Nutrition | Paints & Coatings | Intermediates | Specialty Chemicals | Agro Chemicals | Solvents | Electroplating | Pharmaceutical Intermediates | Textile Industry | Industrial Chemicals |

BENZOYL PEROXIDE / 94-36-0

CAS-Number :-

Molecular Formula :-

Molecular Weight :- mol/g

Available Qty :- 100.0000 Kgs

Package Size :-25 Kg HDPE Bags

Price :- Available on Request

Markets :- Basic Chemicals | Pharmaceuticals & API | Food & Nutrition | Paints & Coatings | Intermediates | Specialty Chemicals | Agro Chemicals | Solvents | Electroplating | Pharmaceutical Intermediates | Textile Industry | Industrial Chemicals |

PYROPHOSPHORYL CHLORIDE / 13498-14-1

CAS-Number :- 13498-14-1

Molecular Formula :- CL4O3P2

Molecular Weight :- 251.74 mol/g

Available Qty :- 100.0000 Kgs

Package Size :- 50 Litre Barrel

Price :- Available on Request

Markets :- Basic Chemicals | Pharmaceuticals & API | Food & Nutrition | Paints & Coatings | Intermediates | Specialty Chemicals | Agro Chemicals | Solvents | Electroplating | Pharmaceutical Intermediates | Textile Industry | Industrial Chemicals |

METHYLAMINE HYDROCHLORIDE / 593-51-1

CAS-Number :- 593-51-1

Molecular Formula :- CH3NH2·HCL

Molecular Weight :- 67.52 mol/g

Available Qty :-100.0000 Kgs

Package Size :- 25 Kgs HDPE Bag

Price :- Available on Request

Markets :-Basic Chemicals | Pharmaceuticals & API | Food & Nutrition | Paints & Coatings | Intermediates | Specialty Chemicals | Agro Chemicals | Solvents | Electroplating | Pharmaceutical Intermediates | Textile Industry | Industrial Chemicals |

SODIUM HYPOCHLORITE / BLEACHING WATER / 7681-52-9

CAS-Number :- 7681-52-9

Molecular Formula :- CLNAO

Molecular Weight :- 74.44 mol/g

Available Qty :- Kgs

Package Size :- 25kg plastic drum, 22 MT/20'FCL

Price :- Available on Request

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

hubs in the world, Clerkenwell Design Week is a perfect showcase for B.I.G. Yarns' future yarns that help architects, designers and project managers create sustainable spaces with soft, beautiful and colorful materials.

Sustainable Yarns for Spaces of the Future

Future yarns include those produced with renewable sources, recycled content yarn and low-impact PA6 carpet yarn. B.I.G. Yarns is now a one-stop-shop for Solution Dyed BCF PA6 nylon, and the Eqo-range of PA6 yarns – the sustainably focused EqoBalance, EqoCycle and EqoYarn.

"This portfolio demonstrates our commitment to reducing climate impact across the carpet pile industry supply chain, and strategically positions the company to help carpet manufacturers meet sustainability targets," said Glenn Hyzak, Global Sales Director Yarns. "At the same time, we believe that sustainability shouldn't stand in the way of color freedom which is why our current range of eco-friendly yarn solutions offers designers the ability to choose any imaginable color with a lower impact on the environment."

Unlimited Colors Without the Environmental Impact

At Clerkenwell, B.I.G. Yarns will be highlighting its Sustainable Yarns platform, a guide for responsible manufacturing professionals and designers in the search for sustainable yarns for commercial, residential, and automotive carpet solutions. Also on display will be its Color Studio, where visitors can expect a vibrant explosion of color with endless and sustainable design options.

"Design, color and sustainability are the building blocks that will create future spaces designed for diverse uses and we believe carpet yarns fit perfectly in the shift from 'form follows function' towards 'form follows feeling' to meet people's sensory needs.

Initiatives like B.I.G. Yarns' Catch the Color even enable designers to select their own customized color designs and combinations with sustainable solution-dyed nylon," said Belinda Ottevaere, B.I.G. Yarns Key Account Manager.

At Clerkenwell Design Week, 21-23 May, B.I.G. Yarns invites architects and designers to explore the potential of color & design for the spaces of the future built with Sustainable Yarns, and a complete portfolio of technical solutions at its booth in the Order of St.John, 21-23 May in London.

Source : Press Release Finder

SK Chemicals Participates in China Beauty Expo Targeting the Chinese Cosmetics Packaging Market with Circular Recycle Technology

SHANGHAI and SEONGNAM, South Korea, May 27, 2024 /PRNewswire/ -- SK chemicals is actively targeting the global cosmetic container market with Circular Recycle materials. SK chemicals (CEO Ahn Jae-hyun) announced on the 27th that it participated in China Beauty Expo 2024, held at the Shanghai New International Expo Center (SNIEC) from the 22nd to the 24th.

China Beauty Expo is Asia's largest beauty exhibition, where global cosmetic brands, manufacturers, distributors, and related organizations participate to showcase the latest trends, technologies, and products. This year, over 3,200 companies from more than 40 countries participated.

Recently, the cosmetics industry has been paying attention to the Chinese cosmetics market. According to the 2023 China Cosmetics Market Industry Development and Consumption Insight report released by the China Flavors and Essences Cosmetics Industry Association last year, the market size of China's cosmetics industry in 2023 was 516.9 billion yuan (96.9549 trillion won), a 6.4% increase from the previous year. It is expected to maintain a steep growth rate of over 5% annually until 2025. At this exhibition, global cosmetics companies and local Chinese companies engaged in fierce promotional competition.

SK chemicals, the No. 1 company in the Chinese copolyester market, showcased sustainable plastic materials that contain recycled raw materials or can be

recycled into PET after use, under the slogan Redefining Beauty Packaging for a Sustainable Future, in line with the recycling trend in the cosmetic packaging market featured at this exhibition.

A diverse lineup of materials was presented, including the high-performance Circular Recycle copolyester ECOTRIA CR produced based on chemical recycling technology and the copolyester ECOTRIA CLARO that can be classified and recycled into PET after use. These products attracted a great deal of attention from Expo visitors.

Furthermore, SK chemicals introduced its core Circular Recycle technologies, materials, and cosmetic containers that use them, and also provided a session to introduce materials optimized for eco-friendly cosmetic containers to global cosmetic brand officials. Based on the fact that SK chemicals established the world's first commercial Circular Recycle material system and realized its products last March, active collaboration with brand owners is expected to continue in the future.

Kim Eung-soo, Head of SK chemicals' Green Materials Business Division, said, "SK chemicals has been consistently striving to apply sustainable materials as a core material for premium cosmetic containers. We will continue to lead the market through close collaboration with global cosmetic brand owners."

Source : SK chemicals

OPW Clean Energy Solutions Expands Model CV Valve Product Line for Hydrogen Market

DOWNERS GROVE, Ill., May 22, 2024 /PRNewswire/ -- ACME Cryogenics, part of OPW Clean Energy Solutions and Dover (NYSE: DOV), today announced that it has developed new 6" and 8" valves for its Model CV Valve product line. These additions satisfy the growing customer demand for hydrogen valves with larger bore sizes.

"We are proud to introduce new valve sizes within our CV Valve product line following the global expansion of hydrogen infrastructure. These larger components reflect our commitment to meeting the evolving needs of our customers, providing them with reliable solutions for the growing hydrogen market," Dan Hutchinson, ACME Cryogenics Technical Sales Manager.

The ACME Model CV valves possess design and operational benefits that make them both ideal for the handling of hydrogen and compatible for use in applications that require a vacuum-jacketed valve and piping system. All Model CV valves are compliant with ASME B31.3 and CSA B51 regulations that govern the use of valves in industrial applications with various pressure and temperature ratings. Model CV valves are rated for hydrogen-handling use in a wide range of markets and industries, including aerospace, food and beverage, electronics, vehicle refueling, industrial manufacturing and medical.

Source : Dover

PT Mowilex Applauded by Frost & Sullivan for Its Industry-leading Premium Paints and Coatings and for Its Market-leading Position

SAN ANTONIO, June 3, 2024 / PRNewswire/ -- Frost & Sullivan recently assessed the paints and coatings industry and, based on its findings, recognizes PT Mowilex with the 2024 Indonesian Company of the Year Award. The company is an industry-leading premium paints and coatings producer that is revolutionizing industry practices and standards with an unwavering commitment to sustainability. PT Mowilex is the first carbon-neutral paints

and coatings company and a pioneer in eco-friendly products, introducing the first water-based paints to the market. The company sets consistent precedents for sustainable practices within the industry, notably producing paints free from toxic substances or any other harmful materials, such a mercury, and using organic dyes as a safer alternative for lead. PT Mowilex is the first company to establish voluntary volatile organic compound (VOC) labeling standards based on the South Coast Air Quality Management District guidelines, which are the most stringent air quality regulations in the United States.

PT Mowilex maintains an ultra-low VOC or zero VOC standard across all its products, minimizing harmful emissions and ensuring healthy indoor air quality. The company diligently measures the VOC content of its products, employing several approaches, including independent lab tests. Furthermore, PT Mowilex prioritizes quality and environmental responsibility in its products. The company offers high-grade exterior acrylic paint with an unprecedented 18-year warranty in the Indonesian market, promoting prolonged building protection and minimizing homeowners' and developers' carbon footprint. In 2023, PT Mowilex introduced an innovative bio-based paint, NaturalleTM, which replaces petroleum-based resin with agricultural oils, eliminating formaldehyde emissions from building coatings and reducing indoor air toxicity. Additionally, the company launched Recycled Paint, developed by repurposing materials from returned paint such as titanium dioxide, which are typically energy-intensive to manufacture. Formulated with 40% premium recycled paint, the new product facilitates a 60% reduction in carbon footprint compared to similar quality paint products.

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Mahendra Chahar, Principal Consultant at Frost & Sullivan, observed, "PT Mowilex's unwavering dedication spearheads advancements in eco-friendly products and resource-efficient operations. By emphasizing innovation and ethical best practices and demonstrating its long-term economic benefits, it is paving the way for other stakeholders in the sector to embrace sustainability."

Niko Safavi, CEO PT Mowilex said, "We have a straightforward vision at Mowilex: to become the most trusted paint brand in our market. Trust is a pivotal element that influences every aspect of our operations and planning, encompassing product safety, environmental responsibility, quality, employee engagement, financial integrity, and compliance. We are incredibly proud that Frost & Sullivan has recognized our efforts, affirming the trust our shareholders and customers place in us, even in a competitive field filled with very strong domestic and multinational players."

PT Mowilex explores new technologies to elevate the industry's product offerings, creating a tangible impact and delivering substantial customer benefits, from better indoor air quality to outstanding coating performance. The company continually enhances its operations and maximizes resources to minimize its environmental footprint. Moreover, the company enhances the customer experience, fostering enduring relationships with its loyal customer base, improving operational efficiency, and ensuring faster product delivery, consistent product availability, and competitive pricing. With the growing demand for mid-tier paints over premium paints in Indonesia, the company demonstrates agility to adapt and capture market share based on the increase in overall paint quality.

"As a pioneer in eco-friendly paints and coatings, and as a certified carbon neutral company, PT Mowilex leads the industry's transition to environmentally centered and socially responsible practices. Its employee focus, sound financial strategies, and marketplace expansion have significantly contributed to the company's growth and healthy profit margin," added Rubini Kamal, Best Practices Research Analyst at Frost & Sullivan.

Each year, Frost & Sullivan presents a Company of the Year Award to the organization that demonstrates excellence, in terms of growth strategy and implementation in its field. The award recognizes a high degree of innovation with products and technologies and the resulting leadership, in terms of customer value and market penetration.

Frost & Sullivan Best Practices Awards recognize companies in various regional and global markets for demonstrating outstanding achievement and superior performance in leadership, technological innovation, customer service, and strategic product development. Industry analysts compare market participants and measure performance through in-depth interviews, analyses, and extensive secondary research to identify best practices in the industry.

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