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4	CPhI China- Virtual CPhI	June 19-21, 2024	Shanghai, China
5	CPhI Japan	Apr 17-19, 2024	Tokyo, Japan
6	CPhI Korea	30 Aug - 1 Sept, 2023	COEX, Seoul, Korea
7	CPhI India	Nov 28-30, 2023	Noida, India
MECS (Coating Show)			
1	Asia Pacific Coatings Show	Sept 06-08, 2023	Bankok, Thailand
2	Saudi Arabia Coatings Show	2025	Dammam Saudi Arabia
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3	Paint Expo Eurosia	Apr 09-12, 2024	Istanbul
Other Exhibitions			
1	Paint India	Feb 22-24, 2024	Bombay Exhibition Centre, Mumbai
2	Expo Paint and Coating	Jan 17-19, 2024	Dhaka, Bangladesh
3	CIPI	TBD	Mumbai, India
4	Chemspec Europe	May 24-25, 2023	Messe Basel, Switzerland
5	ChemUK Expo	May 15-16, 2024	NEC, Birmingham, UK
6	American Coatings Show	April 30-2 May 2024	Indianapolis
7	China Coat China	Dec 2024	China Import and Export Fair Complex, Guangzhou
8	Interdye China	TBD	China
9	Paint Expo Germany	Apr 09-12, 2024	Messe Karlsruhe Germany
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CHEMICAL MARKET

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

Continuing the Semiconductor saga of setting up the manufacturing in India.

The ongoing saga continues for companies wanting to participate in the semiconductor revolution in India as a important manufacturing hub for chips, display and PV solar modules. As far as I know working for one of the largest semiconductor companies Applied Materials, chip manufacturing is very high investment intensive process. The tools to manufacture chips are provided to the largest chip manufacturing companies like TSMC, Panasonic, AMD, Intel are all provided by largest semiconductor companies like Applied Materials, NXP Semiconductor, KLA Tencor, LAM Research and the likes. It is not just tough to setup the infrastructure due to its high cost of a fabrication plant where large machines are used to move silicon wafers from one chamber to another to process each wafer. To make any chip there are several steps involved starting with deposition, photoresist, lithography, etching, ionization and packaging. The process begins with a silicon wafer. Wafers are sliced from a glass ingot of 99.99% pure silicon and polished to extreme smoothness.

1. In deposition, thin films of conducting, isolating or semiconducting materials are deposited on the wafer to enable the first layer to be printed on it. There are special recipes that are programmed in these tools provided by companies like Applied Materials and KLA Tencor to deposit chemicals and other gases on the silicon wafers, all well defined by the receipt. The tools are of the size of a 300 sq ft room and there are several such tools setup in the fabrication unit.
2. The wafer is then covered with a light sensitive coating called the photo-resist. There are two types of resist: positive and negative. The main difference between positive and negative resist is the chemical structure of the material and the way that the resist reacts with light. With positive resist, the areas exposed to ultraviolet light change their structure and are made more soluble – ready for etching and deposition. The opposite is true for negative resist, where areas hit by light polymerize, meaning they become stronger and more difficult to dissolve. Positive resist is most used in semiconductor manufacturing because its higher resolution capability makes it the better choice for the lithography stage. Several companies around the world produce resist for semiconductor manufacturing, such as Fujifilm Electronics Materials, The Dow Chemical Company and JSR Corporation. [info extracted from asml.com]

3. Lithography determines how small the NPN and PNP transistors on the chip can be. The number of transistors is based on Moore's Law which states that in an integrated circuit, it doubles about every two years. It is not a law of physics but an observation and projection of a historical trend of chip manufacturing, which results in smaller devices as chip sizes keeps on decreasing every 2 years! During this stage, the chip wafer is inserted into a lithography machine (usually these machines are manufacturers by companies like ASML, where it is exposed to deep ultraviolet (DUV) or extreme ultraviolet (EUV) light. This light has a wavelength anywhere from 365 nm for less complex chip designs to 13.5 nm, which is used to produce some of the finest details of a chip – some of which are thousands of times smaller than a grain of sand. Light is projected onto the wafer through the 'reticle', which holds the blueprint of the pattern to be printed. The system's optics (lenses in a DUV system and mirrors in an EUV system) shrink and focus the pattern onto the resist layer. As explained earlier, when light hits the resist, it causes a chemical change that enables the pattern from the reticle to be replicated onto the resist layer.

4. Etching removes the degraded resist later to reveal the intended pattern. The wafer is baked and some of the resist is washed away to reveal a 3D pattern of open channels. Etch processes must precisely and consistently form increasingly conductive features without impacting the overall integrity and stability of the chip structure. Advanced etch technology is enabling chipmakers to use double, quadruple and spacer-based patterning to create the tiny features of the most modern chip designs. As with resist, there are two types of etch: 'wet' and 'dry'. Dry etching uses gases to define the exposed pattern on the wafer. Wet etching uses chemical baths to wash the wafer. Companies such as Lam Research, Oxford Instruments and SEMES develop semiconductor etching systems. As with resist, there are two types of etch: 'wet' and 'dry'. Dry etching uses gases to define the exposed pattern on the wafer. Wet etching uses chemical baths to wash the wafer. Companies such as Lam Research, Oxford Instruments and SEMES develop semiconductor etching systems.

5. Ion implementation is the process of bombarding the wafer with positive and negative ions to tune the electrical properties of part of the pattern. Raw silicon – the material the wafer is made of – is not a perfect insulator or a perfect conductor. Silicon's electrical properties are somewhere in between. Directing electrically charged ions into the silicon crystal allows the flow of electricity to be controlled and transistors – the electronic switches that are the basic building blocks of microchips – to be created. This process is known as 'ion implantation'.

6. Packaging is the next step where a diamond saw is used to slice and dice each individual chip. Cut from a 300-mm wafer, the size most often used in semiconductor manufacturing, these so-called 'dies' differ in size for various chips. Some wafers can contain thousands of chips, while others contain just a few dozens. The chip die is then placed onto a 'substrate'. This is a type of baseboard for the microchip die that uses metal foils to direct the input and output signals of a chip to other parts of a system. And to close the lid, a 'heat spreader' is placed on top. This heat spreader is a small, flat metal protective container holding a cooling solution that ensures the microchip stays cool during operation.

Semiconductor manufacturing involves far more than just these steps. There's also measurement and inspection, electroplating, testing and much more. And each microchip goes through this process hundreds of times before it becomes part of a device.

-Rajiv Parikh

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Titanium Dioxide Anatase	25 Kgs	195.00
Titanium Dioxide (Rutile - R-902)	25 Kgs	256.00
Trisodium Phosphate	50 Kgs	42.00
Zinc Chloride Powder (Tech.)	50 Kgs	80.00
Zinc Oxide White Seal	50 Kgs	235.00
Zinc Stearate [Pure]	25 Kgs	195.00
Zinc Sulphate (Tech.)	50 Kgs	58.00
Organic Chemicals	**No of Units Per Pack**	**Price (Rs/Kg)**
Acetic Acid Glacial	35 Kgs	61.00
Acetone	160 Kgs	85.00
Benzene	196 Ltrs.	92.00
Benzyl Alcohol	200 Kgs	200.00
Bisphenol-A (Russian)	25 Kgs	180.00
Bisphenol-A (Russian)	170 Kgs	197.00
n-Butyl Acetate	165 Kgs	120.00
Butyl Cellosolve	195 Kgs	120.00
Camphor	25 Kgs	500.00
Cellosolve –Ethyl	195 Kgs	160.00
Chloroform	300 Kgs	44.00
Citric Acid (Anhy)	25 Kgs	90.00
Citric Acid (Mono)	25 Kgs	70.00
Cresote Oil	50 Kgs	64.00
Cyclohexanone	190 Kgs	142.00
D D Turpentine	200 Ltrs.	145.00
Diacetone Alcohol	195 Kgs	135.00
Diethylene Glycol	230 Kgs	85.00
Dimethyl Formamide	195 Kgs	105.00
Dioctyl Phthalate	200 Kgs	140.00
Di-Pentene	200 Kgs	92.00

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

Paraffin Wax (White)	50 Kgs	125.00
Para formaldehyde 91%	25 Kgs	100.00
Perchloroethylene	320 Kgs	120.00
Phenyl Liquid	230 Kgs	105.00
Phthalic anhydride	25 Kgs	115.00
Pine Oil 22%	200 Litrs	110.00
Pine Oil 40%	200 Litrs	190.00
Polyethelene Glycol 400	230 Kgs	118.00
Polyethelene Glycol 600	230 Kgs	140.00
Propylene Glycol	215 Kgs	128.00
Poly Aluminium Chloride	25 Kgs	34.00
Red Lead	50 Kgs	220.00
Renine	180 Kgs	72.00
Rosin	17 Kgs	115.00
Sodium Acetate	50 Kgs	34.00
Sodium Benzoate	50 Kgs	105.00
Sorbitol	250 Kgs	52.00
Stearic Acid (cosmetic)	50 Kgs	125.00
Styrene Monomer	185 Kgs	115.00
Terpeneol Perfumery	25 Litrs	260.00
Thiourea	25 Kgs	400.00
Toluene	200 Ltrs	96.00
Trichloroethylene	280 Kgs	120.00
Triethanolamine	210 Kgs	125.00
Vinyl Acetate Monomer	185 Kgs	105.00
Xylene Mixed	185 Kgs	98.00
O-Xylene	185 Kgs	120.00

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

M/S. CHEMICAL (INDIA) COMPANY

'Eden Plaza', 3rd Floor, 87-Perumber Barrack Road, (Near Doveton Signal), Purusaiwakkam, Chennai - 600007 (India).
Phone : +91-44-26611911/044- 26611912/ 044-26611913 E-mail : contact@cicchennai.com/ chemicalsindiacompany@gmail.com
Web : www.chemicalsindiacompanychennai.com

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

MUMBAI PRICE TREND – 14.07.2023	
Organic & Inorganic Chemicals	Price (Rs/Kg)
PMA	114+
SOLVENT C9 -BARRELS	107+
TOLUENE - BARRELS	92+
NBA - BARRELS	98+
EDC	45+
NPA	116+
CL	37+
MDI	18+
PHOESPHORIC ACID	98+
MEALIC ANHYDRIDE	85+
NIETRO BENZENE	100+
DMF	88+
ACITIC ACID	45+
MEK	117+
CYCLO	144*+
ETHYLE ACETATE	85+
FORMAL	19+
BUTYL ACETATE	107+
CAUSTIC POTASH	113+
ALPHOX	161+

TE4	98+
POTASSIUM CARBONATE	128
ACRYLIC ACID	96+
EAM	138+
DCDA	160+
P. G	131+
IPA	94+
ACETONE	87+
MIX XYLEN	95*+
O. XYLENE	103+
BENZENE	82+
MEG	54+
DEG	85+
GLYCERINE	65+
SORBITOL	47.50
SODA ASH	1715+
SMBS	37+
SBC	1940+
METHANOL	31.50+
MIBK	175+
MCB	76+
ODCB	91+

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

Broker in Chemicals & Solvents

13-A, R.V. Building, Near Sion Rly. Station, Inside Ayurvedic Hospital, On Hill, Sion, Mumbai-400022.
Mob. : 9869131022 / 7977251683 / 9224340945

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

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

Product Name	Qty	Grade
Denatonium saccharide Cas no: 90823-38-4	1 Tonnes	Industrial
Details : Please quote the best price with lead time & COA.		

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Growth Opportunities for Nanomaterials in Healthcare, Packaging and Filtration: Featuring Nanomembrane Technology for Fractionating Hydrocarbons from Crude Oil and More

DUBLIN, June 16, 2023 /PRNewswire/ -- The "Growth Opportunities for Nanomaterials in Healthcare, Packaging and Filtration" report has been added to ResearchAndMarkets.com's offering.

This issue of the Nanotechnology Opportunity Engine highlights technology developments related to nanomaterials, additives, bioprinting, and membrane separation process that can be used in healthcare, F&B and personal care industries. It also highlights innovations that can help in increasing the efficiency of oil and gas operations. The issue also captures various R&D efforts from universities focused on material development and processing for industrial, electronics, F&B and personal care applications.

The Nanotechnology Opportunity Engine provides intelligence on technologies, products, processes, applications, and strategic insights on nanotechnology-related innovations and their impact across various industries. Technology focus areas include nanocatalysts, antimicrobials, nanocellulose, and nanoplatelets.

The Chemicals and Advanced Materials cluster tracks research and innovation trends and developments across specialty chemicals, plastics, polymers, chemicals, bio-chemicals, metals, coatings, thin-films, surface treatments, composites, alloys, oil and gas, fuel additives, fibers, and several other related technologies and its impact and application across industries.

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

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

Waterborne and Powder-Based Coatings Creating Positive Outlook for Paints and Coatings Industry - Grand View Research, Inc.

SAN FRANCISCO, June 20, 2023 /PRNewswire/ -- The global paints and coatings industry size stood at USD 48.16 million tons in 2022 and will exhibit a CAGR of 3.2% from 2023 to 2030, according to the "Paints and Coatings Industry Data Book, 2023 - 2030," published by Grand View Research. Favorable policies to minimize VOC, along with surging demand from oil & gas, construction and automotive industries, will reinforce the market growth. Producers have emphasized improving corrosion resistance, gloss retention and limiting emissions of hazardous air pollutants (HAPs) amidst soaring raw material and solvent costs.

An uptick in the construction industry has seen architectural coating grow in stature across advanced and emerging marketplaces. Lately, commercial, residential and institutional buildings have sought water- and solvent-based architectural coating to underscore their environmental profiles. Moreover, the do-it-yourself (DIY) trend could encourage consumers to protect, preserve and enhance the interiors and exteriors of buildings.

Powder coating technology has gained ground with the rising penetration of the automobile, construction and furniture markets. Predominantly, the emergence of electric vehicles from Tesla, Audi, GM, Hyundai, Toyota and Nissan, among others, has strengthened the position of powder makers. EV original equipment manufacturers (OEMs) seeking sustainability (zero-emission coatings and coatings having no-to-low VOC) are likely to inject funds into the

landscape. The global powder coatings market generated USD 8.52 million tons in 2022 and will exhibit a 3.9% CAGR during the forecast period. The growth outlook is partly due to the demand for sustainable solutions and the prevention of corrosion across business verticals.

Read the full report : https://www.grandviewresearch.com/sector-reports-list

If you want your report abstract to be published please contact https://www.researchandmarkets.com/r/5gk0l

Saudi Arabia Oilfield Chemicals Industry Research Report 2023: Drilling, Completion Method, Cementing, Stimulation, EOR Competition, Forecast and Opportunities to 2028

DUBLIN, June 21, 2023 /PRNewswire/ -- The "Saudi Arabia Oilfield Chemicals Market By Application (Drilling, Completion Method, Cementing, Stimulation, Enhanced Oil Recovery, Others), By Oil Field Type (Onshore, Offshore), By Type, By Region, Competition, Forecast and Opportunities, 2028" report has been added to ResearchAndMarkets.com's offering.

Saudi Arabia Oil Field Chemicals Market Size is USD 928.27 million in 2022 and is anticipated to increase at a CAGR of 4.81%

The oil industry demands more sophisticated methods for the exploitation of natural resources. The Saudi Arabia Oil Field Chemicals Market is driven by increased oil and gas exploration and production; a focus on difficult offshore and frontier areas; increasing well depths; and the need to maximize existing well output in the country.

According to the International Trade Administration, Saudi Arabia is one of the world's largest net exporters of petroleum and the center of over 17% of the world's proven oil reserves. Further, oilfield chemicals are used in various sectors, such as in the field of exploration and production, including the optimization of cementing and drilling, as well as aiding in the development of new methods of developing fuel sources, fracturing, etc.

Drilling fluids play a key role in drilling wells faster, deeper, longer, and more challenging situations. According to the Organization of the Petroleum Exporting Countries, the OPEC nations generate the most oil globally, with Saudi Arabia accounting for one-third of the group's total production.

The oilfield chemicals used as drilling fluids can include fibers, suspension, clay control, and biocides, as well as polymers, suspension and rheology chemicals, surface modifiers, fillers, and particles. In addition, drillers use specialty cement and membrane-sealing solutions to prevent losses. Oilfield chemicals are substances used in the exploration of oil and gas. They are used in drilling operations and production facilities to increase the extraction process efficiency and efficacy. These substances aid in the smooth operation of oil fields and reduce the costs incurred by frequent stops and delays while drilling.

According to the U.S. Energy Information Administration, OPEC accounted for roughly 11% of all petroleum imports into the United States in 2021 and 13% of all imports of crude oil. Saudi Arabia, the largest OPEC oil producer to the United States, supplied 6% of the country's imports of crude oil and 5% of its total petroleum imports.

Moreover, oilfield chemicals may remain as residues in crude oil since they are utilized in many stages, including drilling, cementing, and well-stimulation. During the production phase, when it is vulnerable to the deposition of scales, wax hydrates, and alkanes, crude oil's outflow through the well must be monitored.

Chemicals used in oil fields aid in the recovery of hydrocarbons, which has significant economic advantages. Also, the industry for oil field chemicals is expanding in some areas, including drilling fluids, workover and completion, and production. Furthermore, oil field chemicals are used in the wastewater treatment process.

Wastewater from oil fields is frequently contaminated with a variety of chemical and natural contaminants. These injected chemicals have the potential to corrode pipelines, harm the environment, and clog pipes. Oilfield wastewater treatment frequently uses a gas float and chemical flocculation techniques to treat oily wastewater.

Read the full report : https://www.researchandmarkets.com/r/6bak8w

If you want your report abstract to be published please contact https://www.researchandmarkets.com/r/5gk0l

Sikkens Wood Coatings Introduces New Stains and Topcoats

Sikkens Wood Coatings shows that Colour is in its DNA with the recently introduced portfolio of interior coatings. As part of its brand refresh, AkzoNobel has introduced a full range of stains and new topcoats to give customers even more design and creative flexibility.

The waterborne range of stains includes Wipe on Patinas, which provide an easy-to-apply option and countless design possibilities for pre-coated wood, while its Aqua Creative range offers pigmented stains with good hiding power and options for both opaque and transparent finishes.

The solventborne options include Universal Stains, offering a palette of very bright, colorful hues, to Antique Effect Patina and Vintage Patina Glaze for an entirely different look.

In addition, new topcoat products being introduced to the Sikkens Wood Coatings line-up include Aqualit Color T4401, a 1K opaque high-quality waterborne coating with great performance. Ideal for furniture, cabinets, and interior joinery, Aqualit Color T4401 is suitable for all types of wood and is available in a wide range of color options, thanks to the Sikkens Wood Coatings waterborne tinting system.

Similarly, Aqualit Color T450-10 is a waterborne 1K or 2K topcoat offering consistent reduced gloss with good filling and hiding power, and great mechanical and chemical resistance. The lightfast properties of this new coating give it excellent resistance to fading.

Another key product in the expanded interior portfolio is the new Quantum T264-03 - the ultimate matt clear PU acrylic topcoat. Anti-fingerprint and resistance to scratches enable this solventborne 2K ultimate matt clear topcoat to provide a beautiful and lasting appearance every time.

"Our partners and end-users can now find a wide range of inspirational colour options with our new stains and topcoats for interior applications," said Henri Bijsterbosch, global colour marketing manager, Industrial Coatings, AkzoNobel. "We offer countless hues according to NCS, RAL and Sikkens Wood Coatings 5051 collections, and provide associated color fan decks and color tools with real color chips to help customers with their color and design decisions."

As part of AkzoNobel, a global leader in color, Sikkens Wood Coatings is firmly committed to helping customers, not only with color selection, but with color quality and delivery. Its leading-edge color technology tools, including a spectrophotometer color measurement device, enable color matching with ease and confidence.

In addition, the Sikkens Wood Coatings color software, available to distributors with selected fit-for-purpose tinting machine options, puts any imaginable color at the fingertips of customers.

"Our creative thinking goes beyond the can," said Bijsterbosch. "Our practical, end-to-end approach to color adds real value to customers, giving them access to a wide range of versatile, high-performing coatings to suit every application and enable them to express their own creativity."

Source : Coarting Worlds

AkzoNobel Launches Openly Available Online Energy Savings Calculator for Powder Coatings

An openly accessible online energy savings calculator for all users of powder coatings has been launched by AkzoNobel.

For the first time, all powder coatings customers can instantly calculate the energy and carbon reduction they could achieve with the company's Interpon products and related services.

Continue on Pg 47

HONEYWELL UPGRADE FOR AIRCRAFT AUXILIARY POWER UNIT LOWERS FUEL CONSUMPTION AND CO2 EMISSIONS

PHOENIX, June 19, 2023 /PRNewswire/ -- Honeywell (NASDAQ: HON) has unveiled a new High-Efficiency Mode (HEM) upgrade for its 131-9B auxiliary power unit (APU) for Boeing 737 aircraft. HEM is enabled by an innovative and highly efficient diffuser, controlled by software that autonomously regulates airflow to the APU compressor section. The HEM capability upgrade is expected to provide fuel savings and efficiency as well as CO2 emissions savings of 1% to 2% (estimated reduction of 0.5 to 0.6 gallons per APU hour) and increase time-on-wing by up to 1,500 APU flight hours, lowering fuel and maintenance costs.

An APU is critical aircraft equipment that provides electrical power and air conditioning while the plane is on the ground to ensure increased passenger comfort. It also supplies the power source when a pilot is ready to start the main engines. The 131-9B is known for its reliability and lower maintenance costs over its entire life cycle.

"Globally, airlines are working to reduce their carbon footprint and every incremental step will help them achieve their net-zero carbon emissions targets," said Heath Patrick, president, Americas Aftermarket, Honeywell Aerospace. "An airline with a fleet of 50 737s could realize as much as $450,000 in annual fuel savings and reduce its emissions by up to 1,100 metric tons of CO2, depending on operating conditions. A major airline carrier recognized a fuel savings of 2.46 percent from the use of the 131-9A auxiliary power unit. Additionally, increased time-on-wing can reduce maintenance costs by decreasing servicing events, providing average savings of $315,000 for each avoided service visit."

The upgrade is intended for any aircraft already operating a 131-9B APU, including Boeing 737-600, 737-700, 737-800, 737-900 and 737 MAX models. It will be available to operators with 131-9B APUs in the second half of this year. This upgrade can be installed during any regularly scheduled maintenance event and does not require additional downtime to implement for newer 131-9B APUs (series 49 and above) delivered with the new diffuser, which enables an on-wing upgrade to HEM.

The HEM upgrade was previously introduced on the Airbus A320 Series aircraft in 2020 and is now installed on over 700 131-9A APUs.

Honeywell's first APU took to the skies in 1950, and the company has built more than 100,000 since then. More than 36,000 APUs, including both fixed wing and rotary wing, are in service today across more than 150 regional, executive, commercial and military applications.

Source : PRNewswire

SUNGROW EV CHARGING RELEASED NEW CHARGERS IN EUROPE

MUNICH, June 19, 2023 /PRNewswire/ -- Sungrow showcased its brand-new EV charging solutions, IDC180E, which is 180kW Integrated DC Fast Charger, and AC22E-01, which is a 22kW AC Residential & Commercial Charger, at the Intersolar Europe in Munich on June 15.

Based on 26 years of experience in power electronics, the two new chargers combine industrial-grade quality with a home appliance-grade user experience for full cycle reliability, optimal efficiency and whole-process user-friendliness. At present, Sungrow offers a series of EV Chargers ranging from 7kW AC to 180kW DC which can cover various scenarios from residential, and semi-public to public.

Full Cycle Reliability

Relying on the world's top supply chain, advanced product quality management system and leading product design, the reliability of the two new products is fully guaranteed. The new EV chargers have an IP65 high protection level, multiple types of protections, long service lifetime, long-term and consistent operation, fearless of sand, dust, high humidity, salt, fog and other types of harsh outdoor environments, so they can meet the needs of office areas, commercial centres, gas stations, railway stations, airports and other scenarios allover Europe.

Optimal Efficiency

Based on the technological development and platform architecture of the more than 2,000 already installed 120 kW DC Chargers, the new European version with 180 kW DC, the IDC180E, adopts Sungrow's first integrated technical solution. PV inverters and C&I ESS solution can easily be integrated with this fast charging station of 180 kW.

By selecting cutting-edge semiconductor devices such as silicon carbide, as well as by using a unique topological design it achieves a system efficiency of up to 96%, maximizing energy utilization and reducing energy consumption at charging stations throughout the whole lifetime.

AC22E-01 is equipped with an automatic phase-switching function. When the PV output power is more than 4.3 kW, the system enables a three-phase charging mode. When the PV output power is low, the system automatically switches to single-phase charging to maximize the utilization of PV energy and saves electricity costs. When multiple vehicles charge at the same time, dynamic load management (DLM) technology is used to allocate charging power to keep the power limit while charging multiple electric vehicles simultaneously, maximizing the use of power capacity.

In addition, both EV chargers can be integrated with PV and battery systems to maximize the use of green electricity through batteries at peak prices, making charging more economical and environmentally friendly.

Whole Process User-friendliness

Sungrow EV Charging has always been adhering to the friendly design concept of the whole process from station construction to operation and maintenance, providing efficient and convenient service and user experience for operators. IDC180E and AC22E-01 can be compatible with Sungrow's PV+ ESS+ Charger Solution, realizing a one-stop deployment, offering also free debugging, and fast charging station deployment. Customers benefit from equipment and services from a premium supplier to make operations and maintenance easier. The innovative design of the AC22E-01 guarantees an easy installation in just 3 steps within 5 minutes.

IDC180E adopts a coolant isolation design, the electronic chamber is completely closed, and the pollution is effectively isolated due to this. The air duct of the power chamber is designed independently and equipped with IP68 cooling fans, guaranteeing to isolate water and facilitating easy maintenance. Compared with the traditional dustproof cotton design, there is no routine dust removal maintenance and no air filter replacement, which can minimize preventive maintenance efforts.

At the same time, the new EV chargers support multi-mode charging and easy plug-and-play. The data such as charging amount, charging time and charging cost are clear at a glance, providing users with a state-of-the-art charging experience.

Sungrow will continue to promote product research, development and technological innovation, create reliable, efficient and friendly EV charging products for global users, provide intelligent charging integrated solutions, and contribute to zero-carbon energy generated electric vehicles.

Source : PRNewswire

TOYOTA TO BUILD NEW AUTOMOTIVE BATTERY LAB AT MICHIGAN R&D HEADQUARTERS, EXPANDING ELECTRIFIED VEHICLE DEVELOPMENT CAPABILITY IN THE U.S.

- Planned to open in 2025, lab will evaluate and support development of electric vehicle batteries, from cell through pack
- Facility to support Toyota manufacturing at plants in North Carolina and Kentucky
- Opportunities for capabilities expansion as technology and business needs advance

YORK TOWNSHIP, Mich., June 8, 2023 /PRNewswire/ -- Toyota Motor North America, Inc. (Toyota) announced today that it will invest nearly $50 million to construct a new laboratory facility at its North American R&D headquarters in York Township, Mich. to evaluate batteries for electric and electrified vehicles in North America. As part of its evaluation process, the new

Michigan battery lab will ensure that Toyota's batteries meet North American customer requirements by confirming performance, quality and durability of automotive batteries made by Toyota. Operations at the new battery lab are expected to begin in 2025.

"This new investment in our North American R&D operation, which has been a key pillar of the Michigan automotive industry for more than 50 years, shows Toyota's directional shift towards electrification for all," said Shinichi Yasui, executive vice president of Toyota Motor North America (TMNA), Research and Development. "By adding these critical evaluation capabilities around automotive batteries, our team is positioned to better serve the needs of our customers, including Toyota Battery Manufacturing North Carolina and Toyota Motor Manufacturing Kentucky, the latter of which will soon be assembling the recently announced all-new, three-row, battery electric SUV."

The team will also work with other North American partner suppliers to incorporate locally-produced battery parts and materials in support of Toyota's multi-pathway approach to reducing carbon emissions through its portfolio of hybrid, plug-in hybrid, fuel cell and battery electric product offerings.

Beyond battery development, other lab activities are expected to include evaluations using Level 2 and Level 3 charging as well as connectivity to power sources and infrastructure. Further, chassis dynamometers at both Toyota R&D campuses in York Township and Ann Arbor are being upgraded to accommodate full battery electric vehicle evaluations.

"With increasing production for electrification coming to North America, it's important to have local supporting infrastructure, but more importantly it enables us to invest in team members and technology development," said Jordan Choby, group vice president of Powertrain at TMNA R&D. "This new facility also enables us to experiment and pursue new opportunities as technology and business needs advance."

In addition to working with current battery production, lab engineers will explore new battery configurations for future products. Their research may also contribute to Toyota's development of new electrified vehicle architectures. Toyota will explore further expansion of the lab's capabilities and opportunities for supporting the needs of the battery and BEV ecosystem. The new facility will be included in Toyota's enrollment in DTE Energy's MIGreenPower program. This voluntary renewable energy program enables all of Toyota's Research and Development operations in Michigan to attribute 100% of its electricity use to renewable energy projects starting in 2026.

"Today's investment by Toyota demonstrates Michigan's leadership in pioneering the future of mobility," said Governor Whitmer. "The $50 million investment in a new laboratory facility to evaluate electric vehicle batteries will create high-skilled, good-paying jobs in Saline and support efforts to help electric vehicles run longer and go farther than ever before. Last week, I announced the Make It In Michigan plan, a strategy to compete for projects, invest in people, and revitalize places. Let's continue working to grow Michigan's economy, bring supply chains home, and lead the future of batteries and electric vehicles."

A pioneer in electrified vehicles, Toyota has put more than 23 million hybrids, plug-in hybrids, fuel cell electric and battery electric vehicles on the road globally. The company currently offers 22 electrified vehicle options in the U.S. across the Toyota and Lexus brands, the most among any automaker. By 2025, the company plans to have an electrified option available for every Toyota and Lexus model globally.

Over the last two years, the company has invested more than $8 billion in its U.S. manufacturing operations primarily to support its product electrification efforts. On a global scale, Toyota plans to invest more than $70 billion in vehicle electrification by 2030.

Souce : prnewswire

INNOVATIVE PRODUCT FOR ELECTRIC VEHICLES: RHEINMETALL DEVELOPS NEW PLUG AND PLAY SOLUTION FOR HEAT PUMPS

Rheinmetall offers a new heat pump for electric vehicles as a plug and play solution. The compact component is completely pre-assembled and filled. The intelligent cold and heat management of the new refrigerant system can not only increase the range of vehicles and the service life of the materials, but also the comfort for the car occupants. It was developed for the precise air conditioning of the interior and the intelligent conditioning of batteries in electric vehicles and drive components.

Due to the ever-increasing demands on the complex thermal management of modern electric vehicles, the number of individual components and connections for the cooling and refrigerant circuit

is increasing sharply. This is where the new refrigerant system from Rheinmetall comes in, by helping to save important installation space thanks to its compact design as a complete system. The system solution is designed for 400 and 800 volt applications. It delivers up to 8 kW nominal cooling and up to 11 kW heating capacity for battery and hybrid systems. It is available as a plug and play solution and thus facilitates the electrification of drives in commercial vehicles, construction machinery and boats, in particular because the complete system can be integrated into both new and existing vehicle platforms.

As an active element in the vehicle's thermal management, the new compact heat pump ensures precise conditioning of the battery and electric motor and also takes care of air conditioning in the interior. The cooling or heating takes place via a connected coolant circuit made of water and glycol. The optimized thermal management system from Rheinmetall makes an important contribution to economical, efficient and convenient electromobility, in particular through the most precise, intelligent control possible, so that the service life of the components and the range of the vehicles can be significantly increased. With the complete package of a plug and play solution for refrigerant systems, Rheinmetall has taken another step into the future market of electromobility, which has high growth potential.

Source : Automotive World

OPEL TO OFFER BATTERY-ELECTRIC VARIANT OF EVERY MODEL IN 2024

Opel has taken another major step towards becoming a fully electric brand by announcing that the successor to the Opel Crossland B-SUV will also be offered with all-electric drive in 2024. This means that every model in the product portfolio of the brand with the Blitz will be available as a battery-electric variant as early as next year.

Opel CEO Florian Huettl: "With the successor to the Crossland we will make the fun of battery-electric driving available across our entire model range – and give our customers access to locally emissions-free mobility in every one of our models."

The wide range of battery-electric Opel models today already extends from the Rocks Electric quadricycle, the Combo-e Life and the Zafira-e Life to the all-electric variants of the Corsa and the Mokka. These vehicles have just been joined by the new Astra Electric, which is available to order now, and will be followed next year by the all-electric successor to the Grandland compact SUV. In addition. battery-electric versions of the entire commercial vehicle portfolio comprising Rocks Electric Kargo, Combo-e, Vivaro-e and Movano-e are already available today too.

The portfolio of Opel electrified vehicles also features locally emissions-free alternatives to pure battery-electric drive. These currently include the dynamic top models of the new Opel sub-brand GSe – the Astra GSe, the Astra Sports Tourer GSe and the Grandland GSe (fuel consumption according to WLTP1: 1.2-1.1 l/100 km, CO2 emissions 28-25 g/km; combined, weighted). Short for "Grand Sport electric", the name means what it says; the GSe models offer a dynamic driving experience with the Grandland GSe delivering a system power output of up to 221 kW/300 hp and maximum torque of up to 520 Nm. In corners, the GSe cars stick to the road and remain stable thanks to special springs and dampers with KONI FSD (Frequency Selective Damping) technology.

Furthermore, Opel is continuing to pioneer development of hydrogen fuel cell transporters. The Vivaro-e HYDROGEN is already on the road and a large fuel cell transporter is scheduled to follow in 2024.

Also, 48V hybrids will join the electrified line-up in the future, starting soon with the recently announced new Opel Corsa. The 74 kW/100 hp and 100 kW/136 hp engines will come with a new dual-clutch automatic transmission. The new Corsa will thus offer customers a choice of drives, from purely battery-electric to hybrid to highly efficient combustion engines, which is unrivalled in this segment.

Opel will offer 15 electrified models by the end of this year alone. The brand with the Blitz is committed to a fully electric product portfolio in Europe by 2028.

[1] The fuel consumption and CO2 emissions figures mentioned comply with the WLTP homologation (regulation EU 2017/948). From 1 September 2018, new vehicles are type-approved using the World Harmonised Light Vehicle Test Procedure (WLTP), which is a new, more realistic test procedure for measuring fuel consumption and CO2 emissions. The WLTP fully replaces the New European Drive Cycle (NEDC), which was the test procedure used previously. Due to more realistic test conditions, the fuel consumption and CO2 emissions measured under the WLTP are in many cases higher compared to those measured under the NEDC. The fuel consumption and CO2 emissions figures may vary depending on specific equipment, options and format of tires.

Source : Automotive World

TELIX PHARMACEUTICALS LIMITED OPENED TELIX MANUFACTURING SOLUTIONS, THE COMPANY'S RADIOPHARMACEUTICAL PRODUCTION FACILITY LOCATED IN BELGIUM.

The 2,800 square meter facility is one of Europe's largest radiopharmaceutical production facilities, according to the company. It will serve as Telix's primary manufacturing site for radioisotopes and commercial and clinical products for patients in the Europe Middle East and Africa (EMEA) region and beyond.

Telix acquired the 35,000 square meter site in April 2020. After extensive redevelopment, which included the decommissioning and safe removal of two cyclotrons, the facility was granted a renewed license for the production of an extensive list of radioisotopes required for the company's research, development, commercial and clinical activities.

"Sites such as Telix Manufacturing Solutions in Brussels South are a rarity. There are very few places in the world where a site of this scale could be constructed and secure a license to produce the array of isotopes that our license allows," said Christian Behrenbruch, Group Managing Director and CEO of Telix.

The first stage of the buildout included installation of nine GMP manufacturing lines, two research and development labs, quality control labs and warehousing space with capacity to support Telix's operations. One of the first GMP lines will be dedicated for the use of industry and research partners and collaborators.

The company is also preparing to install the first of two planned cyclotrons for the site. The Wallonia regional government provided grant funding and the Wallonia Export & Investment Agency (AWEX) provided access to financing solutions, in addition to the company's own funding, to support first stage buildout works.

"Belgium's 'Radiopharma Valley' is a fundamental part of Telix's innovation success – in fact, the technology that underpins our first commercial product was invented in Belgium," said Ortiz. "It is our vision that this facility, will not only exist for Telix but operate as a hub for research, development and manufacturing for our partners and collaborators across industry, academia, and clinical practice. We are very grateful for the support of the Walloon regional government and AWEX and hope that this facility will contribute to the ongoing growth of our industry and drive further investment in the region."

Telix currently employs 32 people in Belgium. The company said that this number is expected to grow significantly as the commercial activity develops.

Source : Contract Pharma

THAERAPY BV AND RESYCA BV ANNOUNCE EXCLUSIVE LICENSE AGREEMENT FOR SOFT MIST INHALER TECHNOLOGY

Thaerapy BV, a pharmaceutical drug product development company, and Resyca® BV a joint venture of Medspray Pharma BV and Recipharm AB, a leader in the development of soft mist inhalers, announced today the signing of an exclusive license agreement for Resyca®'s soft mist inhaler for the development of a treatment for pulmonary arterial hypertension (PAH).

As part of the agreement, Resyca® will receive a signing milestone as well as other milestones for the supply of soft-mist inhalers for Thaerapy's clinical trials. Additionally, Resyca® will receive a royalty based on net sales of the drug-device combination once it is marketed. Resyca® and Thaerapy have also agreed on a joint work plan for the comprehensive development program.

As part of the contracted services, Resyca® will provide Thaerapy with its proprietary soft mist inhalers, which are based on pre-filled syringes. Resyca® will also offer services for compounding, filling and finishing of the drug product in the inhaler. Furthermore, Resyca® will also support Thaerapy in the creation of the necessary regulatory and clinical trial submission documents.

"We are thrilled to be partnering with Thaerapy to bring our soft mist inhaler technology to patients suffering from PAH," said Bernhard Müllinger, General Manager and COO of Resyca®. "This agreement demonstrates our commitment to delivering innovative solutions to the pharmaceutical industry, and we are confident that our technology will significantly improve the lives of patients affected by this debilitating and progressive condition."

Thaerapy BV is a drug product development company focused on the development of inhaled combination products for the treatment of pulmonary hypertension. "We are excited to be partnering with Resyca®, a company with a proven track record of delivering high-quality and innovative inhaler technology," said Wilbur de Kruijf, CEO of Thaerapy BV. "With Resyca®'s support and expertise, we are well-positioned to advance our mission of bringing innovative and life-changing treatments to PAH patients."

Source : World Pharma Today

SUN PHARMA ANNOUNCES HEALTH CANADA APPROVAL OF PRWINLEVI® (CLASCOTERONE CREAM 1%) FOR TOPICAL TREATMENT OF ACNE

- WINLEVI is the first and only topical Androgen Receptor Inhibitor, and the newest Health Canada-approved formulation to target the hormonal component of acne in 40 years.
- WINLEVI may reduce sebum and decreases inflammation for male and female acne patients, 12 years of age and older.

MUMBAI, India and BRAMPTON, ON, June 19, 2023 - Sun Pharma Canada Inc., a wholly owned subsidiary of Sun Pharmaceutical Industries Limited (Reuters: SUN.BO) (Bloomberg: SUNP IN) (NSE: SUNPHARMA) (BSE: 524715), "Sun Pharma" is pleased to announce Health Canada's approval of PrWINLEVI (clascoterone cream 1%). WINLEVI is the first and only androgen receptor inhibitor indicated for the topical treatment of acne vulgaris (acne) in patients 12 years of age and older, and the newest Health Canada-approved formulation to target the hormonal component of acne for Canadian patients in 40 years.[1]

"Acne is a common condition due to hormonal triggers. However, there has been a gap in topical acne treatments which impact the hormonal cascade of acne for Canadians," said Dr. Jerry K.L. Tan, dermatology specialist and founder of The Healthy Image Center in Windsor, Ontario. "I am thrilled that acne patients will soon have a new treatment option."

"Sun Pharma is committed to providing innovative dermatology medicines for Canadians, which fill the gap for necessary treatment options," said Abhay Gandhi, North America CEO of Sun Pharma. "We are thrilled to provide a new topical treatment option for the millions of Canadians affected by acne."

Acne is a highly prevalent dermatological condition, affecting approximately 20 per cent of Canadians.2 Data shows that acne affects patients' health-related quality of life and may increase the risk of depression and anxiety.[3, 4,5]

"Our recent report, Breaking Out: a report on the acne patient experience in Canada, uncovers substantial treatment gaps for individals with acne," said Sue Sherlock, executive director of the Acne and Rosacea Society of Canada. "One of our top recommendations for the industry has been to increase e access to more treatments. We are pleased to see a new product available for Canadian patients."

WINLEVI is thought to inhibit the effects of androgen receptors in cells of the sebaceous glands (oilproducing glands in the skin) to help reduce sebum (oil) production and inflammatory cytokines,[1, 6] and thus inhibits the androgen cascade.

Instead of a topical approach to acne treatment that focuses on follicular hyperkeratinization, reducing inflammation or exerting antibacterial effects, WINLEVI targets the androgen receptor in the skin to tackle sebum production and inflammation.[1]

Source : Sun Pharma

ALKEM LABORATORIES LAUNCHES CETUXA WORLD'S FIRST BIOSIMILAR OF

CETUXIMAB FOR HEAD AND NECK CANCER

Mumbai, 29th May 2023: Alkem Oncology has announced the launch of Cetuxa, the world's first biosimilar of Cetuximab used for the treatment of head and neck cancer. This is in line with the company's endeavour to ensure affordability, accessibility, and availability while saving the lives of critically ill Cancer patients. Cetuxa has been researched and manufactured indigenously by Enzene Biosciences Limited, the biological arm of Alkem Laboratories.

Head and neck cancers (HNCs) are one of the most common cancers worldwide and in India too. According to the Global Cancer Observatory (GLOBOCAN) estimates, there were 19.3 million incident cancer cases worldwide in 2020 and India ranked third after China and the United States of America. Overall, 57.5% of global head and neck cancer cases occur in Asia and India accounts for 30% of these cases. Annually, in India, the prevalence of head and neck cancer is approximately 5,00,000 cases with over 1,25,000 deaths.

Cetuxa aims to increase the accessibility and affordability of a novel cancer drug for head and neck cancer patients. It is a biosimilar of cetuximab, a monoclonal antibody, and received DCGI approval on 16th January 2023 for this indication. Cetuximab binds to the extracellular domain of the epidermal growth factor receptor (EGFR), which is overexpressed in many human cancers, including head and neck cancer and colorectal cancer. This process prevents EGFR from binding with its endogenous ligand, blocking the receptor-dependent transduction pathway and providing many anti-tumour effects.

Cetuxa is administered as an intravenous infusion and is available as 100 mg (2 mg/mL) in a singledose vial. Initial dose is 400 mg/m2, follow-up of 250 mg/m2 per week. Cetuximab has a proven record in terms of better progression-free survival (PFS) and overall survival (OS) compared to chemotherapy alone for the management of head and neck cancer.

"In India more than 76,000 patients are eligible for the use of cetuximab for the management of head and neck cancer. Currently, only 1,611* patients are managed by this therapy i.e., around 2% of eligible patients. Its reach in India is limited partly due to its high cost. To address this issue, we have launched an affordable biosimilar which is backed by indigenous research and production. We aim to ensure its availability in all parts of the country making it easily accessible to the Indian population," said Sandeep Singh, Managing Director at Alkem Laboratories

"We are glad to announce Cetuxa drug as it will be a historic breakthrough in terms of saving the lives of cancer patients. We have developed Cetuxa as a goal to make cancer therapy more accessible and affordable to millions of patients suffering from head and neck cancer", said Dr. Himanshu Gadgil, CEO, at Enzene Biosciences Ltd (biological arm of Alkem Laboratories).

Head and neck cancer is one of the most prevalent cancers in India which is primarily caused by the consumption of tobacco. Furthermore, as most patients are from low to middle socio-economic backgrounds, the launch of Cetuxa will help in making the treatment affordable and accessible to all patients.

Alkem is a leading Indian global pharmaceutical company that manufactures and markets biosimilars and pharmaceutical formulations in India and across the globe.

Source : Alkem Laboratory

CHEMICAL TECHNOLOGY

LITHTECH LAUNCHES REVOLUTIONARY TECHNOLOGY THAT INCREASES THE PRODUCTION

May 7, 2023 | Australian company, LithTech, has launched its 2023 capital raising program to finance the development of its patented magnesium separation technology that significantly increases the brine extraction of critical raw materials, such as nickel, lithium, cobalt, copper, and natural graphite.

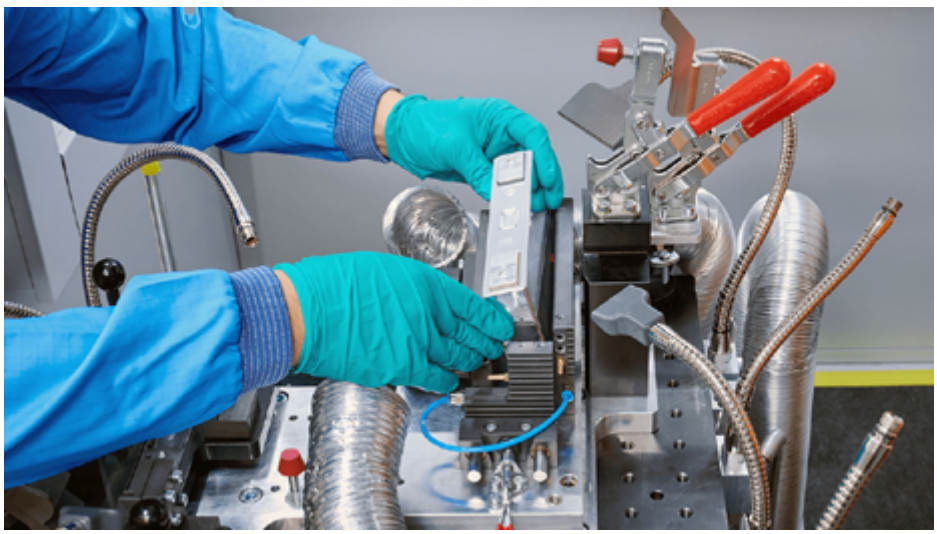
The University of Queensland's Dow Centre has economically and technically endorsed the technology following successful lab-scale testing, allowing the Company to begin commercialising the

technology.

Results from the testing showed the technology has the potential to preserve 90-95% of the lithium during the extraction process, which is significant when compared to traditional methods that achieve 40-45% preservation.

"We are very excited to be launching LithTech today following the successful trials and the backing of the University of Queensland's Dow Centre," said LithTech's Director, David Vinson. "We believe we are on track to develop a disruptive technology which will fast track battery grade metal production while generating a higher yield of limited resources."

Given these results, the Company believes it can help the mining industry increase production and fill the shortages business leaders are concerned may arise from the Chilean government nationalising its lithium industry.



"The International Energy Agency's Net Zero by 2050 roadmap says the world will need two billion lithium-ion battery electric, plug-in hybrid and fuel-cell electric light-duty vehicles. Worldwide reserves stand at approximately 22 million tons, according to the US Geological Survey, which is sufficient to produce just under 2.5 billion batteries but not enough to maintain us for the next hundred years."

"Given Chile holds an estimated 54% of the world's lithium reserves, it's critical we find a means of boosting production, increasing the yield of extraction and preserving this finite resource so manufacturers can produce the batteries needed to supply a carbon-free economy long past 2050."

"LithTech is one of the first technology companies in the world to provide an avenue to delivering on these goals."

A versatile technology with multiple use cases & market demand

The versatile technology can also be used to sustainably treat mining waste streams/tailing and treat/desalinate wastewater, while in all use cases, the process produces two valuable by-products — hydrogen (clean fuel) and magnesium hydroxide.

Since sharing the independently verified results, the Company says it has received considerable interest from the mining, hydrogen production and water treatment industries.

"We have received an extremely positive response across our network, which shows there is demand in the market for our product."

The Company says its technology presents a strong proposition to potential customers across a variety of industries.

"Our groundbreaking technology has the potential to help the world's largest mining and industrial processing companies unlock significant profits by increasing production, lowering operational costs through increased efficiencies, creating new revenue streams and reducing emissions."

The modular units can also be retrofitted onto existing infrastructure or used to construct new plants while also reducing costs through increased efficiencies.

The technology can also help companies achieve significant ESG goals:

Advanced magnesium separation delivers cost-effective, sustainable disposal of mining waste & the existing 217trn litres of tailings in storage.

Low-emissions production of lithium, nickel and other critical raw materials by electrification and reduction of transport and manufacture of raw chemicals.

Green by-products generated in all use cases, including magnesium hydroxide, can be used as a sustainable flame retardant & hydrogen for clean energy.

The process can sequester carbon.
Technology can be used to treat wastewater, which can help third-world countries access affordable, reliable water sources.

Source : Battery Power

SOLVAY LAUNCHES NATERNAL™ FOR REGENERATIVE BEAUTY THAT CARES FOR EVERYONE

Brussels, June 15, 2023 - Solvay, a global leader in naturally-derived polymers for beauty care formulations, continues to stride along the pathway of caring for beauty and the planet, with the launch of Naternal™. This new responsible brand embodies regenerative beauty that cares for every stakeholder, from the planet to farming communities on the ground, brands and consumers.

"The introduction of Naternal™ clearly demonstrates Solvay's long-term commitment to sustainable growth," explains Jean-Guy Le-Helloco, Vice-President, Home & Personal Care at Solvay. "Naternal™ represents a new era where beauty, the planet and fair treatment of farming communities can all be balanced."

By leveraging the power of nature and science, Naternal™ brings together biodegradable beauty care polymers, from guar and other natural feedstocks, to pave the way for future innovations that address consumer expectations and upcoming regulations. The array of ingredients offered by Naternal™ aligns with the biodegradable by-design approach, which aims at integrating end-of-life management at the early stages of research and ensuring that product development is driven by both application and end-of-life performances.

"The beauty industry is at the beginning of a green chemistry transformation with biodegradability standing as one of the most pressing challenges to tackle," stated Galder Cristobal, Research & Innovation Director, Home & Personal Care at Solvay. "Solvay's commitment and constant responsible care mean our customers can confidently create their next generation of biodegradable hair and skin care products while considering the well-being of consumers and the planet."

The next few years will see the addition of new solutions and chemistries thanks to the commitment of Solvay's scientists and the Group's "Renewable Materials and Biotechnology" growth platform, which focuses research and innovation on the use of renewable feedstocks and biotechnology for the development of innovative, safe and sustainable solutions. To support this, Solvay is also investing in a world-class, multipurpose microbiology laboratory. This will house state-of-the-art biodegradation, human and environmental toxicity screening tools that will enable a safe and sustainable by design innovation process.

Solvay's commitment to sustainable beauty is at the essence of the "Beauty for the Planet" initiative, which aims at delivering more sustainable beauty ingredients that benefit consumers and the environment.

Source : Press Release

EVONIK LAUNCHES NEW TEGO® RAD 2550 SLIP AND DEFOAMER ADDITIVE FOR RADIATION-CURING INKS AND COATINGS

- **Very strong slip and scratch resistance with good release at low dosage**
- **Excellent defoaming and hydrophobicity**
- **For traditional UV as well as UV-LED curing**

Essen, Germany. Evonik's Coating Additives business line is expanding its TEGO® Rad range of tailored silicone acrylates with a new radically crosslinkable defoaming slip additive.

The new TEGO® Rad 2550 is a clear, low viscosity liquid that effectively reduces static and dynamic surface tension in both conventional UV- and LED-cured formulations.

Key attributes include low coefficient of friction (COF), high scratch resistance, good defoaming and the ability to create hydrophobic surfaces.

"Due to its unique property profile,

TEGO® Rad 2550 is truly an excellent additive for the formulation of matte coatings, pigmented inks, and roller-applied wood top-coats," says Courtney Thurau, Head of Evonik's Global Market Segment for Printing Inks.

Acrylated products are the coating industry's first choice for minimizing migration and obtaining very pronounced, long- lasting effects. TEGO® Rad 2550 is just one of the latest products in Evonik's TEGO® Rad portfolio of silicone acrylates that offer formulators a complete toolbox of solutions to ensure top performance in paints and coatings. These additives for radiation- curing inks and coatings can improve the flow and leveling and optical appearance, prevent cratering, and allow formulators to create products with the desired level of slip and flow. Choosing TEGO® Rad products with a higher or lower number will result in a different level of slip and compatibility, giving customers more precision in their formulations.

"TEGO® Rad products offer tailored, cross-linkable performance. For inks and coatings formulators, this means great long-term effectiveness in the final product, high resource-efficiency and a sustainable solution compared to alternative technologies," says Courtney Thurau.

Evonik's Coating Additives business line has a comprehensive portfolio for radiation-curing inks as well as a wide range of products to enhance high-performing formulations in the automotive, architectural, decorative, marine and other industries.

Source : Evonik

ASCEND INTRODUCES HIDURA™ LUX AMORPHOUS NYLON FOR PACKAGING FILMS AT PROPAK CHINA 2023

SHANGHAI – June 19, 2023 – Ascend Performance Materials is launching its HiDura™ LUX amorphous nylon for packaging films in the Asian market

at ProPak China 2023. Ascend will be exhibiting HiDura LUX alongside its HiDura PTR puncture and tear resistant nylon copolymers for films at Booth #51G53 from June 19 to 21.

"There is growing demand for higher-performing packaging films in the greater Chinese market to reduce the amount of food goods that never make it to consumers due to spoilage or damage," says Terry Yuan, Ascend's Asia commercial director for engineered plastics. "Our packaging films portfolio brings new, high-performance films that minimize food waste and product damage across the supply chain."

HiDura Lux is used as a specialty modifier that is blended with other polyamides to enhance key performance properties of packaging including:

- Enhanced thermoforming.
- Improved orientation to optimize shrink performance.
- Improved Optical properties, i.e higher gloss and lower haze.
- Increased organoleptic performance and oxygen barrier.

HiDura LUX amorphous nylon is ideal for use in shrink films for protein packaging, thermoforming films and barrier layers for fiberboard packaging. In end-use applications, the use of HiDura LUX results in a superior oxygen and moisture barrier to extend product shelf-life and prevent food spoilage. With international food contact approvals, HiDura LUX polymer from Ascend is now available globally.

Source : Press Release

ARCHROMA AND SWATCHBOOK TEAM UP TO DELIVER THOUSANDS OF DIGITAL COLORS TO FASHION DESIGNERS

Pratteln, Switzerland, 14 June 2023 - Archroma, a global leader in specialty chemicals towards sustainable solutions, is bringing the entire portfolio of 5,760 Archroma Color Atlas colors to swatchbook, the industry leading platform for material digitalization and sourcing.

The new partnership provides fashion, apparel and textile designers and manufacturers with an elevated standard for color accuracy that meets the needs of today's increasingly technology-driven and integrated supply chain. This will help the textile and fashion community to improve sustainability, whilst lowering costs and shortening turnaround times.

"At Archroma, we are committed to developing sustainable color solutions for the fashion and textile industry. Enriching swatchbook's industry-leading digital tools with Archroma's innovative systems will give brands and their suppliers the extra edge they need to thrive with sustainability in a fast-paced digital world," Chris Hipps, Head of Strategic Business Development, Archroma Color Management, said.

"We are pleased to partner with Archroma, a company whose values mirror our own commitment to empowering users with intuitive tools that are truly a joy to use," Jason Eric Brown, Chief Business Development Officer of swatchbook, said. "This partnership will enable us to tap into Archroma's expertise in color and chemistry so that we can help our customers develop more accurate and consistent digital material colorways."

The Color Atlas by Archroma® was launched in 2016 to provide fashion designers and stylists with off-the-shelf color inspiration that can be implemented in production with just a few clicks. Designers will use the 5,760 Archroma Color Atlas colors on swatchbook to rapidly develop accurate digital colorways and visualize their final product. They can then share these digital swatches with their manufacturing partners, providing access to the swatchbook metadata, which can include information such as the materials' composition, weight and color.

This will significantly streamline the overall design and production process for color-critical fashion and textile products, allowing for faster turnaround. Digital materials supported by trusted coloration technology also reduce the need for samples and eliminate physical swatchbooks, bringing environmental benefits and lower costs to brands and suppliers.

Source : Press Release

NEW JOINT VENTURE TO BOOST CIRCULARITY OF SECONDARY PLASTIC PACKAGING

ROTTERDAM, Netherlands and HOHENWESTEDT, Germany, June 16, 2023 /PRNewswire/ -- LyondellBasell and AFA Nord, a leading recycler of agricultural film, have agreed to create a 50:50 joint venture that intends to recycle post commercial flexible secondary packaging waste. The joint venture company, LMF Nord GmbH, plans to build a mechanical recycling plant in Northern Germany to turn Linear Low Density Polyethylene (LLDPE) and Low Density Polyethylene (LDPE) waste into quality recycled plastic materials for use in flexible packaging. Start of production is expected for early 2025.

Secondary plastic packaging, such as stretch or shrink film, is mainly used to hold packed consumer goods together and protect them during transportation and storage from contamination and damage. Until today, this material is difficult to recycle into high-quality raw materials that can meet the requirements of the packaging industry regarding strength and transparency of their final product.

"This Joint Venture will provide recycled LDPE and LLDPE materials and complements our existing CirculenRecover range of high density polyethylene and polypropylene products," says Yvonne van der Laan, LyondellBasell's executive vice president, Circular and Low Carbon Solutions.

"It adds to our efforts in advanced recycling and delivers against our integrated hub strategy, where we invest upstream to provide feedstock from various plastic waste streams. With this efficient full suite of solutions we continue to be the preferred partner of our customers."

The new recycling unit is expected to produce 26,000 tons per year of recycled LDPE and LLDPE grades that LyondellBasell will market through its CirculenRecover family of products for use in various applications from stretch films to collation shrink films. The CirculenRecover product family comprises a wide range of mechanically recycled materials that are currently used in applications ranging from electrical appliances, to washing detergent bottles and suitcases.TM Recycling GmbH, a sister company of AFA Nord, will be responsible to provide the feedstock for LMF Nord GmbH. TM Recycling is also a member of the Mensing Group.

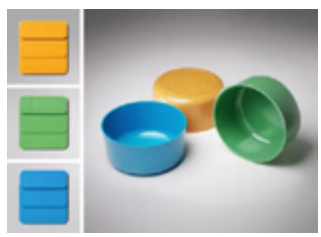
"We already operate Germany's only agricultural film recycling plant for a number of years and have a broad experience in the production of recycled materials," says Andreas Mensing, managing director of AFA Nord. "Together with LyondellBasell we can contribute to a circular economy and increase the availability of recycled solutions for flexible packaging applications."

Source : Sinopec

AVIENT AND BASF COLLABORATE TO BRING COLORED ULTRASON® TO THE GLOBAL MARKET FOR HIGH-PERFORMANCE POLYMERS

Cleveland, United States and Ludwigshafen, Germany - June 26, 2023: Avient Corporation and BASF are now collaborating to offer colored grades of Ultrason® high-performance polymers to the global market. The colored grades feature BASF's Ultrason® polyarylethersulfones (PAES) as high-quality base polymer combined with Avient's Colorant Chromatics™ high-temperature color formulation expertise for color concentrates and pre-colored solutions. The collaboration will give customers in industries such as household and catering, electrical & electronics (E&E), and healthcare a distinctive benefit by providing comprehensive technical support from the base polymer to the final-colored product. As a result, customers will be able to react more quickly to design trends, meet technical requirements as well as color standards, and thereby increase speed to market.

The full-color Ultrason® portfolio can also contribute to a more sustainable lifestyle by enabling reusable, high-quality, and stylish household and catering articles. Products can be reused by consumers and recirculated by caterers many times while maintaining performance and design. Thus, they support a circular economy, avoiding single-use plastics and reducing packaging waste caused by conventional catering, take-away and to-go articles.



"The market requirements for colored, high-performance polymers are clear: you have to react quickly and also be able to supply various volumes of colored material," says Anne Hippert, general manager, Colorant Chromatics at Avient. "With this collaboration, we can offer the best of both worlds in high-performance polymers. Avient is well-known for its specialized color solutions, respecting the customers' final application requirements, and BASF is well-known for its excellent Ultrason® quality and broad material competency. Together, we are committed to bringing innovative PAES to the market, meeting color challenges across multiple industries, including the household and food industry, where we see the use of Ultrason® as a perfect fit for our customers' sustainability efforts by promoting appealing colors for reusable and safe applications."

"Avient's Colorant Chromatics business is known for being a strong and agile color solution provider for specialty polymers while BASF is a well-recognized producer of high-quality Ultrason®," says Florian Hennenberger from global business development Ultrason® at BASF. "By working together, we can now offer customized colors with Ultrason® as a base material to existing and new customers. By combining the global networks of both companies with the color formulation expertise of Avient and the broad material competency and portfolio of BASF, this collaboration will lead to smoother and less complex product development for our customers."

Avient and BASF have a long history of collaboration in the field of polyarylethersulfones. Through this next stage of cooperation, the companies can more readily meet the demand for various-sized orders with short lead times, with the capability to serve different industries. The colored grades will be formulated and sold by Avient as Colorant Chromatics™ made with Ultrason® by BASF.

Source : BASF

PUSAN NATIONAL UNIVERSITY RESEARCHERS DEVELOP NEW ADSORBENT FOR REMOVING RADIOACTIVE CESIUM IONS FROM NUCLEAR WASTEWATER

BUSAN, South Korea, June 21, 2023 /PRNewswire/ -- Nuclear power is typically considered a cleaner way of generating power compared to fossil fuels. It does not release air pollutants and greenhouse gases like carbon dioxide as by-products. However, it creates radiotoxic waste that needs proper treatment to prevent adverse environmental and health conditions.

One of the major by-products of the nuclear fission process used for power generation is 137Cs (an isotope of cesium), a radioactive element that has a half-life of 30 years and is often removed from nuclear powerplant (NPP) wastewater via selective adsorption using ion exchangers. However, this process is severely hindered in acidic wastewater where excess protons (H+) impair the adsorption ability and damage the lattice structure of the adsorbent.

A team of researchers led by Prof. Kuk Cho from Pusan National University, Korea, found a way to turn this adversity into an advantage. In their breakthrough work, made available online on 16th May 2023 and to be published in Volume 455 of the Journal of Hazardous Materials on 5th August 2023, they have presented potassium calcium thiostannate (KCaSnS), a new layered calcium (Ca2+)-doped chalcogenide ion exchanger. It utilizes the typically problematic H+ ions in acidic wastewater to enhance the cesium ion (Cs+) adsorption process. Essentially, the Ca2+ ions from KCaSnS are leached out by H+ and Cs+, making way for Cs+.

"Through a transformative approach, the troublesome proton was converted into a functional agent by incorporating Ca2+ into the Sn–S matrix, resulting in a metastable structure. Moreover, Ca2+ is a harder Lewis acid than Cs+ and can thus leave the lattice easily because of its weaker affinity to the Lewis soft base S2- under acidic conditions. This provides a large enough space for Cs+ to reside after its release from the lattice structure," explains Prof. Cho, speaking of the mechanism underlying the action of KCaSnS.

The team used the hydrothermal process to synthesize the novel KCaSnS ion-exchange material, which was then used to investigate the adsorption of a non-radioactive isotope of Cs+ (to avoid radioactivity exposure) in different solutions with pH values ranging from 1 to 13.

The team found that at pH 5.5 (neutral condition), the Cs+ adsorption capacity was 370 mg/g, whereas at pH 2 (strongly acidic), the capacity increased by 68% to 620 mg/g. Remarkably, this trend was completely opposite to what previous studies had established.

The researchers attributed this observation to the fact that under neutral conditions, the Ca2+ was leached out only from the interlayers, which accounted for around 20% of the total spots available for Cs+ to be adsorbed by the S2- ions in the Sn–S matrix. In contrast, under highly acidic conditions, nearly 100% of Ca2+ ions were leached out from both the interlayer and the backbone structure, allowing more Cs+ ions inside the lattice. Additionally, in all cases, interlayer K+ was involved in the ion exchange.

These results establish KCaSnS as a promising candidate for the removal of radioactive ions from NPP wastewater. The insights gained from this study could open up new avenues for the development of high-performance adsorbents for highly acidic environments. "The impressive adsorption capacity of KCaSnS can help alleviate the challenges associated with managing radioactive waste by providing a practical solution for reducing the volume of radioactive waste produced during spent fuel reprocessing and decommissioning of nuclear power plants," concludes a hopeful Prof. Cho.

Source : PRNewwire

EVONIK EXPANDS GLOBAL ALKOXIDES BUSINESS WITH NEW SINGAPORE PLANT

Hanau, Germany. Evonik has begun construction of a new production plant for alkoxides in Southeast Asia. The mid double- digit million-euro investment will enhance supply security for customers in the region and further

strengthen the company's global alkoxides business.

The company is expanding its production capabilities in response to growing demand for alkoxide catalysts, which are primarily used in biodiesel production and in synthesis applications in the pharmaceutical and agricultural industries. In future, alkoxide catalysts will also play a bigger role in the circular economy through their use in the chemical recycling of PET plastics.

"Asia Pacific is a key region for Evonik Catalysts and Southeast Asia plays an important role in our growth journey," says Sanjeev Taneja, Senior Vice President and General Manager business line Catalysts adding that this investment once again, underlines Evonik's commitment to its customer–centric "Think Global – Act Local" approach towards increased customer satisfaction and supply reliability.

The investment is seen as a critical step in Evonik's strategy to expand its position as one of the largest alkoxide manufacturers in the world. "We already have leading production facilities in Europe, North and South America; Asia is the missing piece in a global supply network to regionally serve all relevant markets," explains Alexander Weber, Global Head of Product Line Alkoxides.

The new plant will be a modern facility with state-of-the-art technology aiming for zero scope 1 & 2 carbon emissions and it will be located at Evonik's site on Jurong Island, Singapore. "From this strategic location, we can satisfy the growing demand for alkoxides in this very dynamic region and further boost our position as a reliable catalysts partner," says Hu Song, Alkoxides Business Director, Asia Pacific, and adds: "With energy-efficient and sustainable production, Evonik contributes to the Sustainable Jurong Island Strategy and supports customers in reducing their carbon footprint."

Following the completion of conceptual and basic engineering, the project is now entering the construction phase, with the alkoxides plant scheduled to become operational by the end of 2024 Evonik's global alkoxides supply network and other production sites around the world include Rosario, Argentina; Mobile, USA; and Lülsdorf, Germany.

Source : Evonik

SONGWON ENTERS EXCLUSIVE PARTNERSHIP WITH KRAHN ITALIA FOR COATINGS

Ulsan, South Korea – June 26, 2023 – Songwon Industrial Co., Ltd., the 2nd largest manufacturer of polymer stabilizers in the world and global specialty chemicals player, is pleased to announce that it has entered a distribution partnership with KRAHN Italia S.p.A. for its Business Unit (BU) Coatings.

Under the partnership agreement, KRAHN Italia becomes the exclusive distributor for SONGWON's BU Coatings range of SONGNOX® CS antioxidants, SONGSORB® CS UV absorbers and SONGSORB® CS HALS products in Italy as of July 1st, 2023 in the Liquid Coatings market. By selecting KRAHN Italia as its exclusive distributor, SONGWON seeks to further enhance its position in Italy, which is one of the key regions in Europe for the Coatings industry.

"Italy is an important market for us and we are very pleased to have such an experienced partner join SONGWON's extensive global distributor network," says Simona De Gradi, Sales Manager EMEAI at SONGWON. "We are confident that KRAHN Italia's expertise, strong market relationships and excellent customer service, combined with SONGWON's products, will help us build and cement our position as the supplier of choice for additives for liquid coatings in Italy."

Based in Milan, KRAHN Italia specializes in the marketing and distribution of specialty chemicals. A sales and distribution partner to leading international chemical manufacturers for more than 100 years, KRAHN Italia offers its partners an extensive, high-quality product range, comprehensive technical services as well as in-house laboratory support. Working side-by-side with KRAHN Italia, chemical manufacturers benefit from a targeted and sustainable product marketing approach based on its deep knowledge of the Italian market and customers' coatings needs.

"We are delighted to be chosen to represent SONGWON in the Italian market. This partnership presents a great opportunity for both companies to actively collaborate and grow, not only our businesses but also to add value for our customers in Italy as well," says Enrico Bozzi, Managing Director of KRAHN Italia S.p.A. "Expanding KRAHN Italia's strong portfolio with SONGWON's high-quality additives for coatings not only allows us to better meet customers' needs but also enables us to increase SONGWON's visibility and expand its position in the coatings market in Italy."

Source : Press Release

Continued from Pg 32

It's the latest example of how the company is continuing to work towards its ambition of reducing carbon emissions across the full value chain by 50% by 2030.

"Sustainability is critical for all of us and helping customers to reduce energy is one of the many ways we can work with – and for – them in order to meet our shared ambitions," said Jeff Jirak, director of AkzoNobel's Powder Coatings business.

"We're proud to be the first in the industry to introduce this kind of openly available online resource," he continues. "It will enable us to create better awareness and enable customers to really get to grips with the potential energy and carbon reductions that can be achieved with low cure powder coatings." Jirak adds that in order to understand the full range of possible benefits for individual users, further details of customer-specific situations would be required.

To make using the tool as easy as possible, the calculator – currently only available in Europe – is supported by a detailed guide, which helps customers better understand how even making small changes in the powder coating process can have a big impact in terms of becoming more energy efficient. These include checking for leakages in compressed air systems, improving insulation and ensuring all process equipment is regularly serviced and maintained. Customers also receive expert support from Interpon's technical service team.

"We're fully committed to reducing the environmental impact of our products and processes while creating opportunities to make improvements across the value chain," says Remco Maassen van den Brink, Marketing Director for the company's Powder Coatings business. "The energy savings calculator and guide are just the latest example of how we continue to help customers make informed decisions that can help them run a more sustainable business."

Source : Coatings World

Cymat Announces Progression to Prototypes and Physical Testing on Automotive Component

MISSISSAUGA, ON, June 20, 2023 /PRNewswire/ - Cymat Technologies Ltd. (TSXV: CYM) (OTCQB: CYMHF) (the "Company" or "Cymat") is pleased to announce that it has commenced with the production of prototype automotive components to be followed by physical impact testing for an electric vehicle manufacturer ("OEM").

Cymat has been working with this OEM for almost a year to develop a composite solution for the underside impact protection of a new electric vehicle's ("EV") battery enclosure. The traditional industry solution has been a reinforced, high-strength steel plate. The OEM engaged Cymat when its own solution, a machined high-strength steel plate, failed to meet its testing criteria. Cymat, together with its design partner, Tesseract Structural Innovations, Inc. ("Tesseract"), has developed an advanced aluminum foam sandwich structure featuring an ultra-thin version of high density SmartMetalTM aluminum foam.

The component is engineered to protect the battery box from an impact force of 120 joules from an object the size of a trailer hitch ball which is equivalent to a collision at 48 miles per hour. Cymat's design offers a slim profile that is 40% lighter and more economical than the traditional steel solution. Lightweighting is critical in EVs as a vehicle's range is directly proportional to its mass. As well, the elevated weight in current EVs causes considerable roadway damage. As such, the lighter weight and enhanced crash protection of Cymat's component are especially germane to today's corporate focus on ESG goals.

Cymat and Tesseract have designed the component utilizing computerized simulations performed by an independent laboratory. These simulations have il-

lustrated that this component exceeds the OEM's rigorous standards for impact protection. The next phase physical impact testing is intended to further validate these simulation results. Upon the successful completion of these tests, Cymat anticipates that it will commence negotiations with the OEM to manufacture the component for the new electric vehicle, scheduled to be launched in late 2024/early 2025.

Cymat has exclusive ownership of this design concept, which has relevance to virtually all other electric vehicle battery enclosures. The Company intends to utilize these test results, including high-speed video of the component's performance, to market its design to other electric vehicle OEMs and parts manufacturers.

Cymat's CEO Michael Liik commented, "This is the first time that Cymat has advanced to the prototyping and physical crash-testing stage with an automotive OEM." He went on to say," I am particularly excited about the ability to market this innovative design concept to other automotive companies and parts suppliers who are all faced with the same battery enclosure challenges." He added, "This development further validates our strategy of focusing on developing technology to enhance the performance of battery enclosures for electric vehicles, an area still very much in its infancy."

Cymat is continuing to work closely with other automotive OEMs and parts manufacturers on additional components, including those outlined in previous press releases (July 5, 2022 and December 13, 2023). Updates on these development programs and other automotive initiatives will be forthcoming.

Source : PRNewswire

Lithium Shortages could Hand Salt a Starring Role in EV Shift

Carmakers who faced skyrocketing prices for lithium and other battery metals last year could increasingly adopt sodium-based cells in the future, helping to alleviate strains on raw materials as sales of electric vehicles surge, according to BloombergNEF.

In a new analysis of the technology, BloombergNEF said it expects sodium to take market share from the cheapest, lowest-range end of the car market in China, and that by 2035 it could displace about 272,000 tons of demand for lithium. That is projected to account for about 7% of the overall market that year. If protracted lithium shortages emerge, the switch could be much more aggressive, BNEF said in the report published Thursday.

"Sodium-ion batteries are an alternative technology that can release some pressure on lithium's complex and growing supply chain," BloombergNEF analysts said in the report. "While the relative share of sodium-ion in the base case may look small, the absolute growth is very significant, which is a consequence of how quickly the whole market is growing."

Sodium's appeal stems from its abundance in rock salts and brines around the world, but lagged other battery metals' in terms of performance. China's roll out of low-cost EVs based on sodium-based cells could represent something of a watershed moment for the technology.

While broad commercialisation could still be a few years away, the promise of sodium-based batteries has sparked widespread discussion about whether they could become popular enough to help alleviate shortages of as a demand surge in mainstream and high-end EVs continues.

In an extreme scenario, if lithium miners fail to keep pace as consumption surges with the next generation of high-end batteries, substitution for sodium in the mass car market could reduce overall lithium demand by 37%, the equivalent

of 1.4 million tons by 2035, BNEF said.

While that could involve a major supply-chain overhaul, the widespread adoption of low-cost lithium-iron-phosphate batteries over the past few years offers an illustration of how quickly new battery technologies can be adopted in response to rising raw material costs, they said.

"BNEF expects that sodium-ion's energy density in 2025 will be comparable with that of LFP in the early 2020s, when LFP took a significant share of global battery demand."

With both supply and demand for battery metals growing at a breakneck pace, forecasting the path of future growth in the industry has proven a challenging and contentious pursuit.

Technical breakthroughs in both battery chemistries and extraction techniques could have major knock-on consequences in the market within the next few years, leading some analysts to forecast big rallies while others — like Goldman Sachs Group Inc. — say there's no end in sight to a recent slump in prices.

Already, the potential success of sodium-ion batteries is becoming too big to ignore for consumers who'll need to decide who's right.

"Going forward, I refuse to buy a single piece of research from any lithium analysis company that doesn't have a reasonable and pragmatic view of sodium-ion in their EV forecast," George Heppel, BASF SE's commercial head for battery metals, said on Twitter in April as CATL announced its first deal to supply sodium cells to a Chinese carmaker. "Right now, that seems to be most of them," Heppel said.

Source : Economic Times

CATL Launches World's First Solar-Plus-Storage Solution with Zero Auxiliary Power Supply

CATL released the world's first solar-plus-storage integrated solution with zero auxiliary power supply at the SNEC International Photovoltaic Power Generation and Smart Energy Conference & Exhibition on May 24. Unlike conventional energy storage solutions, CATL's trailblazing solution gets rid of the dependence on the cooling system and auxiliary power supply through the self-developed solar-BESS converter, the heat-resistant cell technology and advanced self-heating technology. It achieved real-time integration of fluctuating PV power with battery energy storage system (BESS), thus realizing millisecond-level power control response and increasing the charging-discharging efficiency by 10%.

At present, in order to cope with climate change and achieve the goals of decarbonization, the world is actively increasing the proportion of renewable energies. As one of the main sources of renewable energies, photovoltaic energy still faces the challenges of stability caused by weather conditions. In addition, due to the influence of the system architecture and the auxiliary-power consumption, the conventional PV+ energy storage system faces problems such as low operating efficiency and complex operation and maintenance.

To address the pain points of the industry, CATL launched the innovative zero-auxiliary-power-supply solar-plus-storage integrated solution, which consists of three modules, namely PV modules, energy storage racks, and solar-BESS converters. While PV modules convert sunlight into electrical energy, the energy storage racks can store or release the electrical energy based on the real-time needs, and solar-BESS converters can convert the DC power from PV modules and energy storage racks into AC power and transmit it to the grid. The efficient interaction of the three parts facilitates the active support of grid, power fluctuation suppression as well as peak shaving, providing an optimal solar-plus-storage integration solution.

In order to get rid of the dependence of conventional solar-plus-storage system on the cooling system and its auxiliary power supply, the energy storage racks used in this solution are equipped with the industry's first long service life cells featuring high temperature tolerance, with which the system cycle life can reach 15,000 cycles. By adopting high-temperature-resistant graphite anode material and special electrolyte, the cell can maintain its good attenuation characteristics at temperatures exceeding 35°C without a cooling system or external auxiliary power supply, which can optimize system performance and efficiency, and make it maintenance-free. At the same time, different from the traditional external heating method, the cell can realize even heating through

advanced self-heating technology, eliminate heat transfer loss, and further improve the overall efficiency and stability of the solar-plus-storage system.

In CATL's innovative solution, each string-type PV-BESS converter is equipped with an independent local energy management system (Local EMS), and can realize real-time communication with the upper management system to make the energy storage more intelligent. Each solar-BESS converter has the energy storage batteries to regulate the photovoltaic modules, forming an independent system responsible for its own "gain and loss," realizing the coordinated operation of PV and BESS system. In addition, the system can also conduct real-time analysis of light intensity and working scenarios, identify requirements for distribution of photovoltaic energy and energy storage in different environments, adapt to the maximum efficiency under changing conditions, achieve millisecond-level response, and output power with "zero" deviation.

After three years of hard working and focusing on the entire R&D chain from materials and cells to products, CATL achieved an overall improvement in terms of operational efficiency, response speed, service life, durability and safety of the energy storage system by building solar-plus-storage integrated solution, and obtained remarkable ecological and economic benefits. As a global leader of new energy innovative technologies, CATL is committed to bringing customers excellent quality, outstanding performance and positive results, establishing a global benchmark for new power systems, unleashing the potential of renewable energy, and making outstanding contributions to the global clean energy transition and sustainable development.

Source : CATL

Enhancement of Anode Materials for Lithium-ion Battery Business -Commencement of Feasibility Studies with South Korean Company L&F-

The Mitsubishi Chemical Group (the MCG Group) is pleased to announce that it has concluded a memorandum of understanding with Korean company L&F Co., Ltd. (headquartered in Daegu, South Korea; CEO: Choi Su An; hereinafter "L&F"), a global manufacturer of cathode active materials for secondary lithium-ion batteries. The purpose is to conduct feasibility studies into strengthening the supply chain for anode materials in countries that have concluded a free trade agreement with the U.S.

Anode materials made from natural graphite, one of MCG Group's strengths, emit less GHGs during the production process and have an excellent life cycle assessment. In addition, the MCG Group has developed patented proprietary technology that suppresses swelling in anode materials, which impacts battery life, and plans to start mass production in 2024.

With the establishment of the 2022 Inflation Reduction Act (IRA) in the United States, automakers and battery cell manufacturers are actively promoting production and procurement for automotive batteries that conforms to the IRA.

To meet this demand, the MCG Group will work with L&F, which has a proven track record as a manufacturer of active cathode materials for LIBs, to explore the possibility of strengthening the anode material supply chain. With the conclusion of this memorandum of understanding, the MCG Group and L&F will consider specific details of cooperation and business schemes within countries that have concluded a free trade agreement with the U.S.

Source : Mitsubhishi Chemical Group

Pulcra Chemicals together with Inditex develop Sustineri Coloring, an innovative dyeing process of cotton & polyester/cotton that reduces water consumption by up to 80%

MILAN, ITALY – Pulcra Chemicals and Inditex develop Sustineri Coloring, a combined pretreatment and dyeing process for cotton and polyester/cotton resulting in water, time and energy savings. This process is the result of a joint research between Pulcra Chemicals and Inditex with the goal to mitigate the impact of standard dyeing processes and to reduce the use of natural resources.

Sustineri Coloring is based on newly engineered process chemicals which allow a one bath pretreatment and dyeing process for dark, medium and light shades of cotton and polyester/cotton fabrics by exhaust method. This results in shorter processing time and less use of water and energy.

The process is already used by selected mills and it showed that Sustineri Coloring is reducing in pretreatment and dyeing the processing time by up to 60 % and the water and energy consumption by up to 80 and 60% respectively. The state-of-the-art products allow a one bath treatment which is the key in saving resources.

"We are incredibly proud to work together with Inditex, one of the world's largest fashion retailers," says Ümit Yaldiz, CEO of Pulcra Chemicals Group. "This partnership is a significant step toward realizing our ambition of bringing environmentally friendly solutions to the worldwide textile market."

Source : Press Release

Archroma and Somelos to Advance Textile Industry Sustainability with New Dyeing and Finishing Process for Water Savings of up to 97%

Pratteln, Switzerland, 22 June 2023 - Archroma, a global leader in specialty chemicals towards sustainable solutions, and Somelos, a world-renowned vertically integrated textile group in Portugal, have joined forces to advance sustainable cotton processing with a new water-saving dyeing and finishing process that generates no wastewater.

Conventional cotton dyeing and finishing requires substantial water and chemical inputs and produces a large volume of wastewater. Long-lasting wash-down effects in particular, traditionally require two water-intensive processes: one to get the color intensity and one to achieve the washed-down contrast. Relying on such resource-intensive processes is of particular concern in nations affected by drought and water scarcity, like Portugal, the home of Somelos since its founding in 1958. To address this challenge, Archroma and Somelos have now developed the New Dry Dyeing/Ox Finishing process for the production of bottoms and shirting in cotton fabrics. Based on Archroma's Pad-Ox dyeing process, which combines oxidation and fixation into one step, and the latest technologies for washdown effects, including ozone and laser treatments, it delivers water savings of up to 97% compared to conventional cotton dyeing and finishing.

The New Dry Dyeing/Ox Finishing process only uses water to prepare the dye and oxidation baths. Archroma Diresul® RDT liquid pre-reduced sulfur dyes ensure easy washdown and direct fixation—with no need for pre-washing—delivering shorter processing, cleaner production and high wash -fastness.

"Archroma and Somelos both believe that sustainability adds value for textile and apparel brands, helping them save resources while they tap into new markets. Together, we have developed a water-saving dyeing and finishing process that not only represents a significant advance in sustainability for the textile industry, but that also empowers brands to protect the environment and deliver eco-friendlier products to an eager buying public," Umberto De Vita, Director, Denim Market Segment, Textile Effects Division, Archroma, said.

"At Somelos, we know that cleaner textiles make a better world. We have invested heavily over the years to achieve eco-friendly production and a zero-carbon footprint, installing our own solar energy park for clean energy and treating and re-using our wastewater. We are delighted to be working with Archroma as we take another step on our sustainability journey and prioritize water saving with our new and innovative cotton dyeing and finishing process," Sofia Vale, R&D Manager, Somelos, said.

Source : Press Release

Clariant's New AmoMax®-Casale Ammonia Synthesis Catalyst: Excellent Results in First Three Commercial References

- **The new AmoMax-Casale catalyst has been successfully installed in three ammonia synthesis plants to date: Nutrien, Mosaic and Yara Sluiskil**
- **All three sites confirm superior catalyst performance, reduced production costs and lower CO2 emissions**
- **Jointly developed by Clariant and Casale, AmoMax-Casale offers up to 30% higher activity**

MUNICH, June 27, 2023 - Clariant's efforts to foster the energy transition show next great results. The new AmoMax-Casale ammonia synthesis catalyst has proven itself in all of its first three industrial references. Jointly developed by Clariant and Casale, the catalyst features exceptional activity, stability, and energy efficiency. These benefits have been confirmed at the ammonia production facilities of Nutrien in Trinidad and Tobago, Mosaic in the USA, and YARA Sluiskil in the Netherlands. Based on plant data, all sites report superior catalyst performance with significant reductions in energy and production costs. At the same time, lower carbon dioxide emissions have greatly improved the sustainability of the plants. With ammonia considered to play an important role in a future hydrogen eco-system, a high-performing, energy-efficient ammonia synthesis catalyst, like AmoMax-Casale, is crucial for accelerating the transition toward net zero.

Georg Anfang, Vice President Syngas and Fuels at Clariant Catalysts, stated, "The implementation of AmoMax-Casale in several units with different designs and process requirements not only confirms the excellence of our innovative catalyst, but also its flexibility. Currently, more than 70% of ammonia produced is used by fertilizer manufacturers, but as ammonia becomes increasingly important as an energy carrier and fuel, AmoMax-Casale can also play a decisive role in facilitating the energy transition."

Ermanno Filippi, CTO at Casale, added, "Our advanced ammonia converter has already demonstrated its strong impact on plant productivity, energy consumption and emissions. By combining it with our jointly developed innovative AmoMax-Casale catalyst, we are now able to help our customers achieve even greater plant performance."

AmoMax-Casale is the customized evolution of Clariant's industry-proven AmoMax 10 catalyst series with more than 120 references worldwide. The new catalyst has been specifically optimized for Casale ammonia converters resulting in an up to 30% enhanced efficiency index.

The first industrial application of AmoMax-Casale was in 2021 at Nutrien's ammonia production plant in Trinidad and Tobago. The facility now realizes energy savings of approximately US$ 500,000 per year, as well as an annual reduction in CO2 emissions of 4,700 MT. The second AmoMax-Casale customer was Mosaic in Louisiana. After the revamp, the plant is benefitting from a significantly lower operating pressure (12% lower), and a higher ammonia concentration at the outlet (9% higher), demonstrating the excellent performances of the catalyst and the new ammonia converter. The latest application of the catalyst was at Yara Sluiskil in their 1200 MTPD ammonia plant in the Netherlands. The catalyst was activated within just 2.5 days and is performing well.

The advantages of the AmoMax-Casale catalyst were also recognized by two awards: The Swiss Chemical Society's Sandmeyer Award 2021 and the prestigious ICIS Innovation Award 2020 for "Best Sustainable Process". Furthermore, Casale's ammonia technology and the AmoMax-Casale catalyst have been selected for multiple green ammonia

Source : Press Release

Umicore speeds up its EV battery materials R&D with unique large-scale prototyping center for solid-state battery materials Umicore speeds up its EV battery materials R&D with unique large-scale prototyping center for solid-state battery materials

Umicore has inaugurated one of the world's largest and most advanced solid-state battery material prototyping facilities in Olen, Belgium, which will expand and accelerate its innovation and technology development after having acquired strong research expertise with the support of the Flemish government (VLAIO - Agentschap Innoveren & Ondernemen). Solid state batteries are expected to propel electric mobility and will complement Umicore's world leading portfolio of battery materials technologies.

The 600 m^2 facility with state-of-the-art installations and equipment supports the full chain of solid-state battery development -- from the formulation of the materials, their characterization and production, to battery cell assembly and subsequent testing on battery level. With this complete approach it is possible to develop new material categories, including catholytes, which combine cathode active materials and solid electrolytes.

"Umicore's unique prototyping center will further scale up and advance our innovation and technology leadership in solid-state battery chemistries which we've been developing since 2017 with multiple key patents. We are committed to our frontrunner position in the cathode materials industry, and this new facility is a critical step in strengthening our leadership even further, increasing our capacity for prototyping and with that our ability to support our customers by a factor of more than 10," said Mathias Miedreich, CEO of Umicore.

Umicore has transformed an industrial building on its site in Olen, which also harbors the Group's Research and Development headquarters, into this unique cutting-edge facility.

Developing solid-state batteries involves materials that are extremely sensitive to moisture and therefore require specialized infrastructures, including exceptionally dry air. Humidity levels inside Umicore's laboratory are at less than 0.1% as each hour 200,000m3 of dry air is blown through the facilities. Such dry air is essential for the accurate testing, analysis, and development of this next generation of cathode active materials.

Conducting R&D inside such dry conditions allows Umicore to optimize and conserve its resources. The ultra-dry air preserves the stability of battery materials and extends their lifespan, thereby reducing frequent material replacements. Instead of having to work within the confines of isolated glove boxes, researchers can manipulate products more freely in a larger, open area. These dry rooms are moreover energy efficient as precise testing and analysis minimize trial and error iterations.

Umicore's leading battery materials technology portfolio consists of its present mid-to-high nickel NMC (nickel, manganese, cobalt) technologies, near-term manganese-rich HLM (high lithium, manganese) technologies and future Na-ion (sodium-ion) cathodes and solid-state battery technologies. Solid-state batteries are the next-generation batteries with performance improvements on several fronts. Their higher energy density will increase the driving range of electric vehicles and allow for their faster charging. The replacement of today's liquid electrolyte with a solid one will enhance the safety and lifespan of rechargeable batteries, reduce their size, weight and ultimately, cost.

Source : Umicore

Battery Materials meet Recycling: BASF is the First Company to establish a Co-Located Battery Materials and Recycling Center and Close the Loop in the European Battery Value Chain

- **Inauguration of first state-of-the-art high-performance cathode active materials production plant in Germany**
- **Kick off for world-class battery recycling plant to produce black mass in Europe in the most sustainable way**
- **Proprietary production technologies will allow significantly reduced carbon footprint for cathode active materials**

Together with customers, politicians and partners, BASF today (June 29, 2023) celebrated the opening of Europe's first co-located center of battery material production and battery recycling in Schwarzheide, Germany. The inauguration of a state-of-the-art production facility for high-performance cathode active materials and the unveiling ceremony for a battery recycling plant for the production of black mass represent important steps toward closing the loop for the European battery value chain – from the collection of used batteries and the recovery of mineral raw materials to their use in the production of new battery materials.

Major step in Europe to participate in the rapidly growing global battery market

Battery materials are at the heart of lithium-ion batteries as they significantly determine their performance and therefore play a crucial role in the transformation of mobility.

"Despite all challenges we are currently facing in Europe, today is a reason for all of us to be optimistic. The state-of the art cathode active materials plant and the recycling plant for black mass production underline that we at BASF believe in the future of the chemical industry in Europe and in Germany and invest in innovative products and services for our customers in our home market," said Dr. Martin Brudermüller, Chairman of the Board of Executive Directors of BASF SE. "With our two investments we significantly contribute to the reduction of the CO2 footprint of batteries and close the loop for sustainable mobility."

European Commission Vice President Maroš Šefčovič emphasized the importance of creating a competitive and sustainable battery cell manufacturing value chain in Europe. "The EU battery market is rapidly growing. Demand for batteries is expected to continue to increase drastically in the coming years for both mobility and storage, and our competitors are also pursuing this market. In this context, the European Commission is committed to keep building a solid battery ecosystem in Europe. This is why we have created the European Battery Alliance, which has helped to generate more than €180 billion in private investments so far. The BASF plant benefited from this work. With its focus on advanced cathode active material and on recycling, it demonstrates that we can boost the EU's competitiveness and reduce its dependencies in a strategic sector, and accelerate the green transition."

First production of cathode active materials in Germany

The new plant is not only the first production facility for high-performance cathode active materials in Germany, but also the first fully automated large-scale cathode active materials production facility in Europe. The plant is fully sold out for the next years and will supply products tailored to the specific needs of cell manufacturers and automotive OEMs in Europe. The carbon footprint of BASF's innovative cathode active materials is significantly lower than the industry benchmark thanks to BASF's proprietary efficient production technologies, which include minimized energy consumption and a high proportion of renewable energy. In order to meet growing customer demand for the European electric vehicle market, BASF is already preparing additional investments for cathode active materials in Europe and is in advanced negotiations with customers. This underlines BASF's commitment to establishing a robust, localized battery value chain in Europe.

Dr. Robert Habeck, Federal Minister for Economic Affairs and Climate Action said: "With the combination of a state-of-the-art CAM manufacturing and a recycling facility, Germany gains a key piece of the puzzle for its growing battery ecosystem. BASF's project increases our sovereignty along the value chain, promotes the circular economy and thus strengthens economic security. The decision in favour of Schwarzheide underscores the attractiveness of the site – its history and chemical knowhow as well as its abundance of renewable energy in the vicinity. The project also highlights the ongoing transformation: Here, where coal was long liquefied into gasoline, the active material for EV batteries

will be produced from now on. We are happy to support this transformation with IPCEI funding."

Closing the loop for battery materials

BASF already offers cathode active materials based on recycled metals as a closed-loop solution in Asia and North America to conserve resources and further reduce their CO2 footprint. With the investments in Schwarzheide, BASF is now directly supporting the European market and at the same time enabling faster growth for its global business. End-of-life batteries and waste from battery production are mechanically processed in the new plant for black mass production. "Black mass" contains key metals used to make cathode active materials: lithium, nickel, cobalt and manganese. In a second step, these valuable metals can be chemically recovered in the most sustainable way and used to produce new cathode active materials. Construction of a black mass production facility has already begun, and production is expected to start in 2024.

"By establishing our first European co-located center for battery materials and recycling, we want to strengthen the battery value chain in Europe," said Dr. Peter Schuhmacher, who is responsible for BASF's Battery Materials and Recycling business and President of the Catalysts division. "We will continue to close the loop and invest in our production and recycling capacities globally to meet the demand of our customers for high-performance cathode active materials with a low CO2 footprint."

Growth impulses for Schwarzheide site

The two plants will expand the product portfolio at BASF's Schwarzheide site and create a total of around 180 new jobs.

"Lusatia is and will remain an industrial and energy region. The products will be renewable, more environmentally friendly and more sustainable. The new plants for battery materials at BASF Schwarzheide contribute to the success of the transformation in the previous coal-mining region. With the production of battery materials, battery production and their recycling, a new, unique branch of industry is being created in Brandenburg, with which we are opening another chapter in the energy transition. Not only will new industrial jobs be created. A strong contribution is being made here to the independence of the European economy, to domestic value creation and to climate protection," said Dr. Dietmar Woidke, Minister President of the State of Brandenburg.

The investments reinforce BASF's support of the European Commission's agenda towards a European battery production value chain and is part of the "Important Project of Common European Interest (IPCEI)" approved by the European Commission on December 9, 2019, under the European Union State aid rules. The launch of innovative battery materials and research to develop next-generation battery materials and process development, including battery recycling, is funded by the Federal Ministry of Economic Affairs and Climate Action based on a resolution of the German Bundestag and by the Ministry of Economics, Labor and Energy of the State of Brandenburg based on a resolution of the Brandenburg State Parliament as part of the IPCEI for Batteries: Funding codes 16BZF101A/B.

Source : BASF

Sabic Launches Material Finder Website Featuring Rich Functionality and High-Value Data to give Customers A Digital Edge when Selecting Specialty Thermoplastics

SABIC, a global leader in the chemical industry, is debuting its new SABIC Material Finder website to help customers and prospective customers conveniently search, compare, evaluate and select specialty thermoplastic materials for a wide range of applications. The new website, which provides robust functionality and high-value, multi-point data, offers several unique features to casual and registered users. Any user can review information on more than 2,000 SABIC specialty resins, copolymers, and compounds – one of the largest portfolios in the industry. For registered users, SABIC's Specialties business' product material data is available for easy download in multiple com-

puter-assisted engineering (CAE) platform formats to simplify the material selection process. They can also request color-matching services or place orders for color chips directly from the website.

"We created the SABIC Material Finder website to give customers the advantages of convenience and control in the selection of our specialty materials," said Sanjay Mishra, who heads R&D and Manufacturing for Specialties, SABIC. "By providing digital tools for accessing authentic, validated product data directly from SABIC, this new website can significantly streamline the decision-making process. Customers are also encouraged to go beyond the data and work with us one on one to ensure they have all the necessary information and insights to evaluate the best materials well-suited for their applications."

MULTI-POINT DATA FOR IN-DEPTH EVALUATION

The SABIC Material Finder website provides a wealth of up-to-date SABIC product data that can be easily searched and filtered to meet specific requirements. For each product grade, users can obtain a list of key features, target industries, and potential applications and use cases. A deeper search reveals specific properties, values and test methodologies, appropriate processing methods and available or custom color options. Registered users can also make a profile and save their favorite products to revisit later.

The comparison tool within the website allows users to select up to five grades for a side-by-side evaluation of key performance properties, including electrical, mechanical, impact, thermal, physical and flame characteristics. The exceptionally detailed comparisons also include equipment specifications, settings and conditions recommended for injection molding, extrusion, and other applicable processes, such as wire coating.

Registered users gain access to additional technical data and resources, including curve data, design and processing guides, and other product literature. Designers can now obtain CAE cards from seven widely used platforms and more CAE software formats will be added soon.

All these technical resources enable customers to perform detailed evaluations of candidate materials for their target applications, giving them a high level of confidence in selecting SABIC's specialty materials.

APPLICATION EXAMPLES FOR INSPIRATION

The SABIC Material Finder website offers information on a wide range of applications made with SABIC's specialty materials. They include real-world components and use cases that span multiple industries, from mobility to consumer electronics, industrial, infrastructure and healthcare. Site visitors can explore potential applications and learn about the benefits of using SABIC's specialty resins, compounds, and copolymers.

The new website also provides practical details on purchasing materials in each geography (Asia, Europe, and North America), and lists buying contacts. If color services are needed, users can go directly to the ColorXpress™ website to search for available colors and special effects, order color chips or request a color match.

Source : Sabic

Lithium from Spent Electric Car Batteries: Public Funding for Research Consortium

- **Evonik is involved in a project funded by the Federal Ministry for Economic Affairs and Climate Action**
- **Objective is an economically viable method of recovering lithium**
- **The total budget for the EarLi project exceeds €5 million**

Essen. Evonik is involved in a research project to recover high-purity lithium from recycled batteries from electric vehicles (EV). Led by ACCUREC Recycling GmbH, various partners from science and industry are working on the EarLi project so that lithium from batteries can be returned to the supply chain. EarLi stands for extraction and purification of lithium hydroxide monohydrate from spent lithium-ion EV batteries for reuse in the production of battery cells. The total project volume is over €5 million and is funded by the project partners and the Federal Ministry for Economic Affairs and Climate Action (BMWK). The research project is scheduled to run for three years.

While metals such as nickel and cobalt

EVENTS AND CONFERENCES

INACOATING 2023

Date: August 23-25, 2023
City: (JIEXPO) Kemayoran, Jakarta – Indonesia
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 11th edition of INACOATING will take place from 23 – 25 August 2023 at Jakarta International Expo (JIEXPO) Kemayoran, Jakarta – Indonesia. As the influential paint and coating show in Indonesia, INACOATING 2023 will be held together with INAMARINE 2023 (for Marine & Shipbuilding coating) and Chemical Indonesia 2023.

9TH ANNUAL SALES & MARKETING EFFECTIVENESS IN CHEMICALS SUMMIT

Date: Sept 26-27, 2023
City: Cologne, Germany
Country: Germany
Website: https://fleming.events/sales-marketing-effectiveness-in-chemicals/

Description: Welcome to the Sales & Marketing Effectiveness in Chemicals Conference, the premier two-day industry event designed to empower sales and marketing professionals in the dynamic chemical sector. Maximize your chemical business potential and join us for a captivating experience where cutting-edge strategies, insights, and innovative techniques converge, boosting profitability in the dynamic chemical industry and propelling your organization towards unparalleled success

CPHI BARCELONA

Date: Oct 24-26, 2023
City: Fira Barcelona Gran Via, Spain
Country: Europe
Website: https://www.cphi.com/europe/en/lp-ppc/barter.html

Description: CPHI Frankfurt is the largest pharma event of the year. Join thousands of pharma professionals and industry experts from across the entire supply chain to grow your knowledge and expand your network. CPHI Frankfurt is the place for you to make meaningful connections, enhance your knowledge and expertise, and to grow your business potential. Join us at the heart of pharma where innovation and collaboration combine to drive business forward.

EVENTS AND CONFERENCES

DYE+CHEM BANGLADESH INTERNATIONAL EXPO

Date: Sept 13 -16, 2023
City: Bangabandhu Bangladesh–China Friendship Exhibition Center
Country: Bangladesh
Website: https://www.cems-dyechem.com/

Description: 42nd DyeChem Bangladesh 2023 is a Comprehensive International Exhibition featuring Worldwide Dyestuffs & Fine & Specialty Chemical Manufacturers, focusing on the entire Textile & Apparel Industry of Bangladesh and also the other important Manufacturing Industries of the country. DyeChem Bangladesh is the Oldest, Biggest & Only International Exhibition of Bangladesh serving the Textile & Apparel Industry of Bangladesh for the past 22 years. Bangladesh has emerged as one of the major textile clothing products exporting nations. The demand for textile chemicals (dyes and auxiliaries) in the country has increased sharply in the recent years. In the fiscal year 2021-2022, Bangladesh exported Apparels worth US $42.613 billion, making it the second-largest apparel exporter in the world. The Dyestuff sector is one of the important segments of the chemical industry in Bangladesh, with a variety of sectors like textiles, leather, paper, plastics, printing inks and foodstuffs. The textile industry accounts for the largest consumption of dyestuffs at nearly 70%. Bangladesh is fully dependent on foreign Dyestuff and Chemicals. Every year, compared to local production, 95% of the Dyestuff and Chemicals are imported in Bangladesh mainly from China, India, Thailand, Taiwan, South Korea, USA, Germany, Italy, Spain, Singapore, Switzerland, Turkey. The Bangladesh Garment Manufacturers Exporters Association (BGMEA) revealed it is eyeing a 10% share of the global apparel market by 2025 and is aiming for an export target of US$100bn by 2030, making Bangladesh a highly potential market for Dyestuff and Fine & Specialty Chemicals. Participate in 42nd DyeChem Bangladesh 2023 Int'l Expo. Meet and connect with potential buyers through the Expo

CPHI KOREA

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

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

ASIA PACIFIC COATINGS SHOW

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

Description: The Asia Pacific Coatings Show is the leading event in South East Asia and the Pacific Rim for the coatings industry. For three days, the exhibition offers the opportunity to meet new and existing customers from the region; gather insight on the latest technologies available in the market; and have meaningful, face-to-face business interactions. The event provides the perfect environment for the entire spectrum of the coatings industry to do business, from raw material suppliers to equipment manufacturers, to distributors and technical specialists like formulators. That's not all – the conference that is held alongside the event offers the opportunity to learn about the latest industry products, innovations and trends; exchange ideas with industry leaders; and build a strong network in the region.

can already be recovered from batteries in high yields, this is not yet possible for lithium because the process is technically more demanding. "Researchers around the world are looking for economically viable methods of recovering this valuable raw material for batteries in high quality," explains Dr. Ralph Marquardt, chief innovation officer at Evonik. "Evonik wants to play its part in finding a solution that drives forward e-mobility with the lowest possible environmental impact."

To this end, an innovative process chain is to be set up on an industrial-type scale to convert the lithium from the black mass—a mixture of different active battery materials—into soluble compounds using a special thermochemical process and subsequently extract the lithium. The lithium will then be separated in an electrochemical process using a highly selective ceramic membrane and isolated as battery-grade lithium hydroxide monohydrate. The innovative membrane process should enable cost- and energy-efficient isolation of high-purity lithium hydroxide and thus close the lithium loop in the battery market. Evonik has been working for some years on the development of selective ceramic ion conductors for lithium ions and their application as separation membranes in an electrochemical process.

ACCUREC Recycling GmbH specializes in the recovery of raw materials from lithium-ion batteries. "With the EarLi project and especially with Evonik as our partner, we want to significantly shorten the process chain in the lithium cycle to ensure the circularity of battery applications," says Dr. Reiner Sojka, managing director of ACCUREC. Alongside Evonik, the other partners in the consortium are the Oeko-Institut in Darmstadt and the IME Process Metallurgy and Recycling Institute at RWTH Aachen. The consortium has also received a boost from the EU: Under EU legislation, the recovery of lithium and the use of recycled raw materials will be mandatory from 2027.

To support research into the manufacture of battery cells, the Federal Ministry for Economic Affairs and Climate Action has approved over €150 million for around 200 sub-projects at almost 40 research consortia. EarLi is one of these sub-projects.

Source : Evonik

India is the Newest Darling of Global Beauty Brands, with the most Launches in a Year

According to experts in the field, India is witnessing an influx of global beauty brands, as they aim to capitalise on the country's vast young population and rising disposable income for their upcoming growth phase.

As a gamble on an expanding market, brands have also started a retail expansion drive, and international funds are looking for chances to invest in startups in the beauty industry. Executives claim that they are shifting their attention to India as a result of economic difficulties in China, which is Asia's largest market for cosmetics.

The demand for beauty products—from makeup and colour cosmetics to hair care and fragrances—is rising quickly, driven by social media influencers, aspirational consumption in small cities and towns, and expanding e-commerce coverage.

Brands like Shoppers Stop, Sephora, and Amazon India have been launching exclusive stores, and have been launching premium cosmetic brands in the country. While Shoppers Stop launched an exclusive store to retail global giant Estee Lauder Group's brands like MAC and Clinique, Sephora launched a premium cosmetics brand Rare Beauty in India. Furthermore, Amazon India launched its global beauty store to retail more than 60 international brands. In addition, Tira, a brand of Reliance Retail, signed up three actors as its brand ambassadors. Shoppers Stop is also planning on having around 80 beauty retail stores in the next three years.

According to a study by market researcher Euromonitor, India's beauty market is expected to grow from US$ 15.6 billion in 2022 to US$ 17.4 billion by 2025 as a result of rising income levels, internet availability, and a young population.

Source : IBEF

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HALF PAGE	19.5 cm (W) x 12.5cm (H)	₹7680 per issue	₹6400 per issue
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FRONT COVER PAGE	21 cm (W) x 21 cm (H) (BLEED 1 CM ALL SIDES)	₹28800 per issue	₹24000 per issue

Magazine Advertisement Tariffs (International)

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

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Last Modified: April 2022

Booking price as on 13/07/2023		
Current Exchange rate-$1= 82.39 INR		
Chemicals name	Current Prices	Type
Acetic Acid	400	CFR India
Acrylonitrile	1130	CFR India
Benzene	745	FOB India
Phenol	890	CFR India
Acetone	730	CFR India
Butyl acrylate monomer	1200	CFR India
C9 solvent	950	CFR India
LAB	1510	CFR India
IPA	900	CFR India
Methanol	245	CFR India
VAM	800	CFR South Asia
Toluene	950	CFR India
Styrene monomer	980	CFR India
NBA	900-950	CFR India
2-eha	1150-1200	CFR India
Iso butanol	910-950	CFR India
MEG	470	CFR India
Mix xylene	980	CFR India
Gycerine	500	CIF India
DMF	780	CFR India
Acrylic acid	950	CIF India
Adipic Acid	1250	CIF India
Ethylene	945	CIF India
PTA	800	CFR India
Propylene	765	CIF India
THF	1500	CIF India
Note- All above booking prices have been directly collected from intenders and importers and verified.		

Mumbai Market Price as on 12/07/2023				
Name of Chemical	Packing type	Units	Current Price	Exclusive of
Acetic Acid	Imported Repack	Rs/Kg	45	GST
	Domestic Intact	Rs/Kg	54	GST
	Domestic Repack	Rs/Kg	45	GST
Acetone	Imported Intact	Rs/Kg	NA	GST
	Imported Repack	Rs/Kg	76	GST
	Domestic Intact	Rs/Kg	98	GST
	Domestic Repack	Rs/Kg	76	GST

Acetonitrile	Imported Intact	Rs/Kg	150	GST
	Domestic Intact	Rs/Kg	NA	GST
	Domestic Repack	Rs/Kg	NA	GST
Acrylonitrile	Imported Intact	Rs/Kg	135	GST
	Imported Repack	Rs/kg	125	GST
Aniline	Imported Intact	Rs/Kg	160	GST
	Imported Repack	Rs/Kg	NA	GST
	Domestic Intact	Rs/Kg	168	GST
	Domestic Repack	Rs/Kg	NA	GST
Benzene	Domestic Repack	Rs/Litre	80	GST
Cyclohexane	Imported Intact	Rs/Kg	130	GST
	Imported Repack	Rs/Kg	NA	GST
	Domestic Intact	Rs/Kg	113	GST
	Domestic Repack	Rs/Kg	105	GST
Cyclohexanone	Imported Intact	Rs/Kg	135	GST
	Imported Repack	Rs/Kg	110	GST
	Domestic Intact	Rs/Kg	140	GST
	Domestic Repack	Rs/Kg	136	GST
C9 Solvent (99.99% purity)	Imported Repack	Rs/Kg	95	GST
C9 Solvent (Arham Petrochem)	Imported Repack	Rs/Kg	95.75	GST
Dibutyl Phthalate	Domestic Intact	Rs/Kg	123	GST
Dioctyl Phthalate	Imported Intact	Rs/Kg	NA	GST
	Domestic Intact	Rs/Kg	127	GST
Ethyl Acetate	Domestic Intact	Rs/Kg	89	GST
	Domestic Repack	Rs/Kg	83	GST
Formaldehyde(37%)	Domestic Intact	Rs/Kg	19	GST
	Domestic Repack	Rs/Kg	18	GST
Methanol	Imported Repack	Rs/Litre	31.5	GST
Methyl Ethyl Ketone	Imported Intact	Rs/Kg	120	GST
	Imported Repack	Rs/Kg	110	GST
Methyl Isobutyl Ketone	Imported Intact	Rs/Kg	180	GST
	Imported Repack	Rs/Kg	148	GST
	Domestic Repack	Rs/Kg	NA	GST
Methyl Methacrylate	Imported Intact	Rs/Kg	146	GST
	Imported Repack	Rs/Kg	NA	GST
Mixed Xylene	Imported Repack	Rs/Kg	97	GST
	Domestic Repack	Rs/Kg	97	GST
Monoethylene Glycol	Imported Intact	Rs/Kg	57	GST
	Imported Repack	Rs/Kg	53	GST
	Domestic Intact	Rs/Kg	59	GST
	Domestic Repack	Rs/Kg	53	GST

Iso propyl Alcohol	Imported Intact	Rs/Kg	NA	GST
	Imported Repack	Rs/Kg	100	GST
	Domestic Intact	Rs/Kg	110	GST
	Domestic Repack	Rs/Kg	100	GST
nButanol	Imported Intact	Rs/Kg	97	GST
	Imported Repack	Rs/Kg	92	GST
	Domestic Intact	Rs/Kg	100	GST
	Domestic Repack	Rs/Kg	92	GST
Ortho Xylene	Imported Repack	Rs/Kg	105	GST
Phenol	Imported Intact	Rs/Kg	NA	GST
	Imported Repack	Rs/Kg	100	GST
	Domestic Intact	Rs/Kg	105	GST
	Domestic Repack	Rs/Kg	100	GST
Phthalic Anhydride	Imported Intact	Rs/Kg	100	GST
	Domestic Intact	Rs/Kg	100	GST
Purified Terethaic Acid	Domestic Intact	Rs/Kg	NA	GST
Styrene Monomer	Imported Repack	Rs/Kg	97	GST
Toluene	Imported Repack	Rs/Kg	99	GST
	Domestic Repack	Rs/Kg	99	GST
Vinyl Acetate Monomer	Imported Repack	Rs/Kg	78	GST
Note-Above prices have been collected from experts and experienced outsources of the industry.Kindly verify from your end as well.				

International market prices as on 12/07/2023

Products	Regions	Current prices
Feedstock Prices $/unit		
Crude Oil ($/barrel)	WTI CRUDE	74.86
	BRENT CRUDE	79.42
	MARS US	76.48
	OPEC BASKET	79.09
Natural Gas	New York	2.73
Gasoline	RBOB	2.62
Heating Oil	US	2.58
Ethanol	US	2.37
Naphtha ($/mt)	FOB Singapore	562
	European	565
	CFR Far East Asia	574
Propane	New York	0.62
Aromatics prices $/MT		
Benzene	FOB Korea	770
	CFR Japan	775

Styrene	CFR Japan	915
	CFR South East Asia	880
	CFR China	921
	FOB Korea	915
Toluene	CFR China	860
	CFR South East Asia	900
	FOB Korea	865
	CFR Japan	870
Iso-mix xylene	CFR South East Asia	880
	CFR Taiwan	915
	FOB Korea	900
MEG	CFR China	460
	CFR South East Asia	465
Methanol	CFR China	246
	CFR Korea	276
	CFR South East Asia	289
	CFR Taiwan	280
Solvent-MX	CFR South East Asia	930
	FOB Korea	870
	CFR China	880
Ortho xylene	CFR South East Asia	1065
	FOB Korea	1025
	CFR China	1030
Para xylene	CFR South East Asia	985
	FOB Korea	985
	CFR Taiwan	985
Propylene	FOB Japan	765
	FOB Korea	720
	CFR China	765
	CFR South East Asia	740
Propylene Glycol	FOB Korea	895
	CFR China	920
	CFR South East Asia	925
	CFR Taiwan	920
Ethylene	CFR North East Asia	745
	CFR South East Asia	755
	FOB Japan	730
	FOB Korea	735
Ethylene Di Chloride (EDC)	CFR Far East Asia	290
	CFR South East Asia	280

Butadiene	CFR China	675
	CFR South East Asia	560
	FOB Korea	615
FOB Rotterdam USD/MT	Benzene	855
	Methanol	196
	Ortho xylene	1355
	Para xylene	1070
	Xylene solvent	1040
	Styrene	1000
	Toluene	1110
USA Aromatics prices FOB US Gulf	Benzene C/G	281
	Toluene C/G	361
	Styrene C/LB	45.3
	Para xylene $/MT	1055
	Mix xylene C/G	364
	Methanol C/G	71
Intermediates prices $/MT		
Acrylonitrile	CFR Far East Asia	1245
	CFR South East Asia	1245
	CFR South Asia	1040
EDC	CFR Far East Asia	310
	CFR South East Asia	350
VCM	CFR Far East Asia	600
	CFR South East Asia	630
MTBE	FOB Singapore	942
	FOB US Gulf	961
Phenol	CFR China	770
	CFR South East Asia	840
	FOB US Gulf	1108
	FOB Rotterdam	966
Acetone	CFR China	635
	CFR South East Asia	795
	CFR Far East Asia	685
	FOB US Gulf	860
	FOB Rotterdam	817
Caprolactum	CFR Far East Asia	1550
	CFR South East Asia	1540
Caustic Soda	FOB North East Asia	325
	CFR South East Asia	375
MEK	FOB Rotterdam	1199
	FD North West Europe(Euro/mt)	1200

Ethyl acetate	FOB US Gulf	1697
	FOB Rotterdam	937
	FD North West Europe(Euro/mt)	960
Butyl acetate	FOB US Gulf	2320
	FOB Rotterdam	1144
	FD North West Europe(Euro/mt)	1150
IPA	FOB US Gulf	1070
	FOB Rotterdam	981
	FD North West Europe(Euro/mt)	1150
NBA	CFR China	1060
	CFR South East Asia	1080
	CFR Far East Asia	1055
Octanol	CFR China	1135
	CFR South East Asia	1250
	CFR Far East Asia	1140
DOP	CFR China	1230
	CFR South East Asia	1280
	CFR Far East Asia	1225
Phthalic anhydride	CFR China	1015
	CFR South East Asia	1055
	CFR Far East Asia	1010
PTA	CFR Far East Asia	770
	CFR South East Asia	780
Acetic Acid	CFR Far East Asia	400
	CFR South East Asia	395
	CFR South Asia	380
	FOB China	325
VAM	CFR China	815
	CFR South East Asia	825
	CFR South Asia	835
Polymers prices $/MT		
PVC Suspension	CFR Far East Asia	750-770
	CFR South East Asia	750-780
ABS Injection	CFR Far East Asia	1200-1250
	CFR South East Asia	1220-1270

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

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

Shipping term		Description
FOB	Free on Board	The seller quotes a price including the cost of delivering goods to the nearest port. The buyer bears all the shipping expenses and is responsible to get the products from that port to its final destination. In simple terms, FOB price means the buyer has to bear the shipping costs completely. This is one of the most used shipping terms by international buyers and sellers.
EXW	Ex-Works	The seller has no involvement with the transportation costs and risks. The buyer has to collect the goods from the seller's site and get them to the final destination. All the costs and risks are borne by the buyer. It is advisable that the buyer purchases insurance since the goods can get damaged in transit. EXW is ideal when the buyer and seller are in the same country or region.
CFR	Cost and Freight	The seller pays the loading and freight costs from his premises up to the destination port. Then, the buyer has to arrange for the goods to be transported from the port to his premises. The seller is only responsible for the cost of shipping the products to the destination port. CFR is used for products transported by sea or inland waterways only. The seller does not bear the risk of loss or damage during transit.
CIF	Cost, Insurance, and Freight	If the buyer opts for CIF price, the seller pays for the loading and freight costs right from his premises up to the destination port as well as insurance. In the case of damage or loss, the seller bears the risk completely. The buyer has to arrange for transportation of the goods from the port to his premises. CIF is a safer option than CFR since the goods are insured by the seller up to their arrival at the destination port.
DAP	Delivered at Place	It was previously known as DDU, Delivery Duty Unpaid. In this case, the seller is responsible for getting the goods from his own factory up to the premises of the buyer. He also bears the risk in the case of loss or damage of the goods right until the products are delivered to the buyer. The buyer only has to pay the i port duties or custom clearance charges.

DDP	Delivery Duty Paid	The seller is responsible for shipping the goods from his factory to the destination address provided by the buyer, usually his factory or warehouse and is also liable for any damage or loss of goods during transit. The seller also takes care of the customs, VAT, or import duties levied on the products. The buyer only has to receive the products at the destination. In most cases, most sellers only offer DDP for small shipments.
FD North West Europe	Free Delivered	Free Delivered North West Europe
Countries Groups	Southeast Asia is composed of eleven countries: Brunei, Burma (Myanmar), Cambodia, Timor-Leste, Indonesia, Laos, Malaysia, the Philippines, Singapore, Thailand and Vietnam.	Far East Asia:The following countries are considered to be located in the Far East: China, Hong Kong, Macau, Japan, North Korea, South Korea, Mongolia, Siberia, Taiwan, Brunei, Cambodia, East Timor, Malaysia, Laos, Indonesia, Myanmar, Singapore, Philippines, Thailand, and Vietnam.
Note- Last changed price means when it changed last whether its yesterday or 2 days ago or 5 days ago or depends on last changing.		

Opening Ports Price (Rs/kg) of Chemicals as on 12/07/2023

USD Exchange Rate: 82.29 INR

Alphabets	Chemicals Name	Current Prices (INR/kg)	Prices in USD/ mt Equivalent to INR/kg	Location
A	Acetic Acid	37.25	452.67	Ex-Mumbai
	Acetic Acid	37.5	455.71	Ex-Kandla
	Acetonitrile-imported intact	140	1701.30	Bhiwandi
	Acetone	65	789.89	Ex-Mumbai
	Acrylic acid	NA	Not Available	Ex-Bhiwandi
	Acrylonitrile	85	1032.93	Ex- Kandla
	Adipic acid	120 (134 BASF)	Not Available	Ex-Bhiwandi
	Aniline oil	135	1640.54	Ex-Kandla
	ABS Resin	123	1494.71	Ex-Mumbai Market
E	EDC	31	376.72	Ex-Kandla
	Epoxy Resin	150	1822.82	Ex-Nhava Sheva
	Ethyl Acrylate	150drum, 142tank	Not Available	Ex-port
F	Formic Acid	70	850.65	Ex-Bhiwandi

B	Benzene	70	850.65	Ex-Vizaz
	Butyl Acetate	90	1093.69	Ex-Kandla
	Butyl Acrylate monomer	93.5 (90.8 BPCL Kochi)	Not Available	Ex-Kandla
	Butyl Glycol (Butyl Cellosolve)	105	1275.98	Ex-Kandla
C	C10	91	1105.85	Ex-Kandla
	C9	86-88	Not Available	Ex-Kandla
	Carbon Black-regular grade	65	789.89	Mumbai
	Caustic Soda Lye	31	376.72	Ex-Mumbai
	Caustic Soda Flake 50%	40	486.09	Ex-Bhiwandi
	Chloroform	22	267.35	Ex-Dahej
	Citric Acid-ANHYD	75	911.41	Ex-Bhiwandi
	Citric Acid-Mono	67	814.19	Ex-Bhiwandi/Ex-Mumbai
	Cyclohexane	NA (89.75 RIL Gujrat)	Not Available	Ex-Hazira
	Cyclohexanone	102	1239.52	Ex-Kandla
D	DMF Drum	80 (Intact)	Not Available	Ex-Bhiwandi
	DEG	60	729.13	Ex Hazira
G	Glycerine	NA	Not Available	CIF Nhava Sheva
H	N-Heptane	134	1628.39	Ex-Bhiwandi
	Hexane	69-71	Not Available	Ex-Kandla
	Hydrogen Peroxide- 50%	32 (31 NPL, 33 Maghmani)	Not Available	Ex-Bhiwandi
I	Isobutanol	75.5	917.49	Ex-Kandla
	IsoPropyl Alcohol	84	1020.78	Ex-Kandla/Ex-Mumbai
L	LAB	113	1373.19	Imported
N	N-Butanol	81	984.32	Ex-Kandla/Ex-Mumbai
	N-Propanol	87	1057.24	Ex-Kandla
O	Octanol	98.5 (92.5 BPCL Kochi)	Not Available	Ex-Hazira
	Ortho Cresol	270	3281.08	Ex-Bhilai
	Ortho Xylene	94	1142.30	Ex-Mumbai

M	Maleic Anhydride-Drum	NA	Not Available	Ex-Mumbai
	MDC	32.5	394.94	Ex-Dahej
	MEG	46	559.00	Ex-Mumbai
	MEK	91.5	1111.92	Ex-Kandla
	Melamine	NA	Not Available	Imported
	Meta Para Cresol	NA	Not Available	Ex-Bhilai
	Methanol	23.5/23	Not Available	Ex-Kandla/Ex-Mumbai
	MIBK	131	1591.93	Ex-Kandla
	Mix Xylene-Solvent Grade	84.25	1023.82	Ex-Kandla
	Mix Xylene-Solvent Grade	84.75	1029.89	Ex-Mumbai
	Mix Xylene-Iso Grade	85	1032.93	Ex-Kandla
	Mix Xylene-Iso Grade	NA	Not Available	Ex-Mumbai
	MMA	NA	Not Available	Ex-Kandla
P	Phenol	83/NA	Not Available	Ex-Kandla/Ex-Mumbai
	Phenolic Resin	150	1822.82	Ex-Indore
	Phthalic Anhydride	101	1227.37	Ex-Mundra
	Propylene Glycol	107.5	1306.36	Ex-Kandla
	PVC Resin	75	911.41	Ex-Mumbai Market
S	Sodium Nitrate (50Kg Bag)	61	741.28	Ex-Taloja Plant(Make- Lasons)
	Soda ash light	NA (35 Kolkata)	Not Available	Ex-Bhiwandi
	Styrene Monomer	88.5	1075.46	Ex-Kandla
	Styrene Monomer	91	1105.85	Ex-Mumbai
	Sulphuric Acid	5 Vapi / 8 kolkata	Not Available	Ex-Vapi
T	Tio2(Anatase Grade)	190	2308.91	Ex-Bhiwandi
	Tio2(Rutile Grade)	220	2673.47	Ex-Bhiwandi
	Toluene	86.25	1048.12	Ex-Kandla
	Toluene	86.5 (78 BPCL)	Not Available	Ex-Mumbai
V	VAM	68	826.35	Ex-Kandla
	VAM	68	826.35	Ex-Hazira
Numbers	2,4-2,5 Xylenol	210	2551.95	Ex-Bhilai

Producer Prices (Rs/kg) of Chemicals as on 12/07/2023					
Producers	Chemicals Name	Current Price(Rs/kg)	Import parity price in USD/MT	Production capacity	Location
RIL	Toluene	79	960.02	100,000 tonnes/year	Hazira
	Mix Xylene	80	972.17	120,000 tonnes/year	Dahej
	MEG	48.2	585.73	750,000 tonnes/year	Jamnagar
	DEG	57.8	702.39	65,000 tonnes/year	Jamnagar
	TEG	111.7	1357.39	NA	Jamnagar
	LAB	135.5	1646.62	180,000 tonnes/year	120ktpa Patalganga, 60ktpa Vadodra
	PTA	82	996.48	1,300,000 tonnes/year	Dahej
IOCL	LAB	NA	Not Available	120,000 tonnes/year	Koyali, Gujarat
	MEG	43.6	529.83		Ex-Odisha (Paradip
	DEG	57.8	702.39		Ex-Panipat
	Paraffin Wax	NA	Not Available		
Deepak Phenolics	Phenol	82.5	1002.55	200,000 tonnes/year	Dahej
	Acetone	64.5	783.81	80.5	Dahej
	IPA Bulk	83	1008.63	30,000 tonnes/year	Dahej
HOCL	Phenol	103	1251.67	40,000 tonnes/year	Kochi
	Acetone	60.5	735.20	24640 tonnes/year	Kochi
SI GROUP	Phenol	103	1251.67	39500 tonnes/year	Ratnagiri, Maharashtra
	Acetone	64	777.74	24000 tonnes/year	Ratnagiri, Maharashtra
	Phthalic Anhydride	103	1251.67	11000 tonnes/year	Ratnagiri, Maharashtra
	Benzene	NA	Not Available	NA	NA

Arham Petrochem Pvt Ltd (Kandla Energy & Chemicals Ltd Refinery)	C9	79.75	969.13	69,000 tonnes /year	Kandla
	C9	80.75	981.29	69,000 tonnes /year	Ahmedabad
	C10	83.5	1014.70	30,000 tonnes /year	Kandla
	C10	83	1008.63	30,000 tonnes /year	Ahmedabad
	C10 - Imported Repack	96.75	1175.72	30,000 tonnes /year	Bhiwandi Warehouse
	MTO/White Spirit(kl)	49.7	603.96	75000 tonnes / Year	Kandla
	MTO/White Spirit(kl)	50.7	616.11	35,000 tonnes /year	Ahmedabad
	De-Aromatised D40	130	1579.78	75000 tonnes / Year	Kandla
	De-Aromatised D40	131	1591.93	35,000 tonnes /year	Ahmedabad
	De-Aromatised D60	139	1689.15	75000 tonnes / Year	Kandla
	De-Aromatised D60	140	1701.30	35,000 tonnes /year	Ahmedabad
Andhra Petrochemicals	Octanol	92.5	1124.07	70,000 tonnes/year	Vishakhapatnam
	N-Butanol	80	972.17	30,000 tonnes/year	Vishakhapatnam
	Iso-Butanol	80	972.17	4000 tonnes/year	Vishakhapatnam
Adipic acid	Ex-Deepak	NA	Not Available		
	Ex-BASF	134	1628.39	210,000 tonnes/year	Germany
NIRMA	LAB	135	1640.54	120,000 tonnes/year	Vadodra
TATA Chemicals	Soda Ash light	41	498.24	900,000 tonnes/year	Mithapur
GACL	Soda Ash light	NA	Not Available		
GNFC	Acetic Acid	36.5	443.55	160,000 tonnes/year	Bharuch
	Aniline Oil	137	1664.84		Bharuch
GSFC	Cyclohexane	89	1081.54	NA	Gujarat
	Cyclhexanone	NA	Not Available	NA	Gujarat

BPCL	Benzene	NA	Not Available	90,000 tonnes/year, Mumbai Refinery,	87000 tonnes/year,Kochi
	Toluene	81	984.32	16,000 tonnes/year	Kochi Refinery
	Hexane(kl)	82.9	1007.41	35,000 tonnes/year, Kochi	Mumbai Refinery
	Hexane(MT)	124.8	1516.59	35,000 tonnes/year, Kochi	Mumbai Refinery
	MTO(kl)	81.7	992.83	19,000 tonnes/year	Mumbai Refinery
	Paraffin Wax	NA	Not Available		
	Sulphur(Molten)	11.09	134.77	19,000 tonnes/year	Kochi Refinery
	Acrylic Acid (Bulk)	85	1032.93	47000 tonnes/year	Kochi Refinery
	Acrylic Acid (Packed)	94	1142.30		Kochi Refinery
	2-Ethyl Hexanol (B)	110.1	1337.95	47000 tonnes/year	Kochi Refinery
	2-Ethyl Hexanol (P)	120.6	1465.55		Kochi Refinery
	N-Butanol(B)	81	984.32	38000 tonnes/year	Kochi Refinery
	N-Butanol(B)	89.8	1091.26		Kandla Installation
	N-Butanol(P)	100.3	1218.86		Kochi Refinery
	Iso-Butanol(B)	78.5	953.94	7000 tonnes/year	Kochi Refinery
	Iso-Butanol(P)	100	1215.21		Kochi Refinery
	Butyl Acrylate (B)	103	1251.67	180000 tonnes/year	Kochi Refinery
	Butyl Acrylate (B)	103.5	1257.75		Kandla Installation
	Butyl Acrylate (P)	128	1555.47		
	2-Ethyl Hexyl Acrylate(B)	128	1555.47	10000 tonnes/year	Kochi Refinery
	2-Ethyl Hexyl Acrylate(P)	138	1677.00		Kochi Refinery
MDC	Grasim	27	328.11	33000 tonnes/year	Nagda, Madhya Pradesh
	Meghmani	27	328.11	397500 kg/ month	Ankleshwar, Gujarat
	Rayalseema	NA	Not Available	40 tonnes/month	Bharuch, Gujarat
	GACL	27	328.11	NA	Bharuch, Gujarat

Ethyl Acetate	GNFC	77.5	941.79	50000 tonnes/year	Bharuch, Gujarat
	Accord	NA	Not Available		
	Satyam	75	911.41	50 tonnes/day	Nevasa, Maharashtra
	Bhange	NA	Not Available	400ltr/day	Ahmednagar, Maharashtra
	Jubilant	75.5	917.49	280 tonnes/day	Gajraula, U.P
	Laxmi	75	911.41	100000 tonnes/annum	Mahad, Maharashtra
Caustic Soda Lye	Meghmani	29.75	361.53	400000 tonnes/annum	Bharuch, Gujarat
	GACL	NA	Not Available		
	RIL	NA	Not Avail-able	69500 tonnes/annum	Kurnool Distric, Andhra Pradesh
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CAS-Number :-
Molecular Weight :- mol/g
Package Size :- 50 kg carbo packing

Molecular Formula :-
Available Qty :- 10.0000 Tonnes
Price :- Available on Request

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

Description : Form:- Liquid Purity:- 50% Density:- 1.45 g/cm³ Boiling Point:- 150.2 °C Melting Point:- -0.43 °C It is used as an oxidizer, bleaching agent, and antiseptic. GACL Hydrogen Peroxide is a chemical compound with the formula H2O2. In its pure form, it is a very pale blue, clear liquid, slightly more viscous than water. Hydrogen peroxide is the simplest peroxide. It is used as an oxidizer, bleaching agent, and antiseptic.

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Date: 26-27 September 2023
Location: Cologne, Germany
URL: https://fleming.events/sales-marketing-effectiveness-in-chemicals/

The Sales & Marketing Effectiveness in Chemicals Summit is a premier industry event that brings together sales and marketing experts, thought leaders, and professionals from the chemical sector. This event is specifically designed to provide a platform for attendees to gain valuable insights, exchange ideas, and explore innovative solutions to enhance sales and marketing effectiveness in the dynamic chemical industry.

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2. Digital Transformation Strategies for Chemical Companies
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4. Effective Pricing and Value Proposition Strategies
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- **Multifunctional support with each additive also tested for side benefits e.g. leveling or sagging**
- **Easily find the perfect match: formulators can access a selection guide for optimal solutions based on desired paint performance parameters**

MUTTENZ, June 29, 2023 - Clariant, a sustainability-focused specialty chemical company, today launches a set of wetting and dispersing agents that enable coatings' manufacturers to extend the open time of their acrylic lacquers and polyurethane (PU) lacquers, and lengthen current post-application correction windows for these water-based systems.

"The switch from solvent to water-based paint systems has made the control of the drying and film-forming process a key property for all paint formulators. Particularly within the decorative and industrial coatings markets, increasing the workability time to fix painting errors on a freshly applied film and avoid permanent visible brush marks can add value to help differentiate a brand's product for users. We are providing paint manufacturers with pre-assessed, easy-to-compare solutions to support their product development and open time goals," comments Sebastian Prock, Head of Marketing Industrial Applications, BU Care Chemicals, Clariant.

Customers can have confidence in finding the perfect match for their specific requirements from the new portfolio. Clariant has used its two new industry-leading in-house open-time testing methods to assess each additive in both paint systems using fast and reproducible measurements, which avoids the inaccuracy of the visual evaluation and low reproducibility of the current standard industry methods. As well as support for extending open time, the wetting and dispersing agents also offer formulators the possibility to solve multiple problems at once. The multifunctional additives have been tested for their performance regarding blocking resistance, gloss, leveling, and sagging, highlighting the potential for even more end-product improvements.

"There has been a need for quantitative determination of open time which allows for accurate comparison of paint additives and their performance. Our formulation expertise and new measuring techniques put us in a unique position to support formulators with recommendations for acrylic and PU lacquer systems, making it easier to find the right solution to extend the open time of their paints, and simultaneously other properties too," comments Zhigang Miao, Head of Industrial Applications, BU Care Chemicals Clariant.

Clariant's open-time extenders include EcoTain® labeled solutions recognized for their outstanding sustainability advantages. To discover the options and access the selection guide and more information visit www.clariant.com/Additives-for-Paint.

Source : Press Release

BIOVYN PVC Supports Net-Zero-Energy Constructions in the Netherlands

- Several construction and renovation projects set for completion later this year in the Netherlands use window frames based on BIOVYNTM, bio-attributed PVC.
- The use of BIOVYNTM for these projects considerably reduces the carbon footprint of house construction and renovation.
- "BIOVYNTM has enormous potential for various industries and we're delighted to see it used more and more in the construction sector", says Inna Jeschke, Business Unit Manager Polymers of INEOS Inovyn.

Bio-attributed PVC is making its way in the construction sector. This year, window profile producer Kömmerling will use INEOS Inovyn's BIOVYNTM – the world's first commercial PVC made of renewable feedstock – in renovation and new construction projects across the Netherlands.

The first installations are expected in June 2023. The first project, will renovate 19 houses to turn them into net-zero-energy social housing*. It will be the first construction project in the world to use certified bio-attributed PVC window frames.

"BIOVYNTM's unique properties have spoken to yet another sector where more sustainable solutions are required to reduce CO2 emissions," Inna Jeschke, Business Unit Manager Polymers, explains. "Our product is already trusted by some of the world's most famous consumer brands, and we are very proud to count Kömmerling amongst them."

INEOS Inovyn's BIOVYNTM brings a carbon footprint reduction of over 90% compared to traditional PVC without compromising on quality and performance.

"We are proud of this project. It is a first in the industry and we consider it an important step in the development of sustainable building materials. This innovation already saves around 6,000 kilograms of CO2 in the first project," says Jelmer Bijlsma, Manager for Sustainability and Innovation at Kömmerling NL.

Source : Ineos